

LÜDECKE

Since 1930. The perfect connection.



MAIN CATALOGUE 2018 / 2019

Our competent and experienced sales team is supporting you from Monday to Friday. You may contact us via email or fax 24h 7 days a week. Furthermore, all information is available on our new website www.luedecke.com.

Complete technical data sheets for all of our products can be submitted upon request.

Service and Contact



Lüdecke GmbH, Heinrich-Hauck-Str. 2, D-92224 Amberg



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Monday to Thursday: 7:30 am till 5:30 pm
Friday: 7:30 am till 1:30 pm



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info@luedecke.de



www.luedecke.de
www.luedecke.com

Quick and easy – search and find in our new compact online product flip-catalogue!



Dear Valued Business Partner,

In the end, it all comes down to good connections.

In life as well as in technology.

We at **LUDECKE** aspire to be both for our customers all over the world.

We not only want to deliver qualitative, premium, durable products – Engineered and Made in Germany – but moreover, convincingly satisfy you with comprehensive service, high consultancy competence and a dynamic partnership.

All that with a clear and comprising sustainability concept, which for the first time in this year, recorded in writing in our Green Company Report.

Let us continue to live this partnership together, because good connections is everything!

On the following 445 pages, you will find our clearly structured, complete product range for 2018/19.

You can easily navigate between chapters by use of the side colour marked pages. Colour markings on the top of the pages divide the technical information and product pages for quick reference.

Our complete product range, simultaneously updated daily, can be found on our new homepage at www.ludecke.com. For quick and easy disposition in daily business, we have compiled there a compact product flip-catalogue for you to download. It only contains the product pages from the 5 product categories and can clearly be used for orders and enquiries.

We look forward to the continuation of our successful cooperation!

Yours sincerely,

Klaus Herdegen
Chief Executive Officer (CEO)



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Green Company:
Zero emissions - 100% renewable
energies - certified with
ISO 14001 and ISO 50001

All prices exclude VAT. All prices listed are prices per piece. For orders below Euro 50,- net value for domestic orders and Euro 100,- net value for export orders we charge Euro 10,-. Please note our packing units. Thank you for your understanding. Prices valid from January 2018.

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Stainless Steel

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LÜDECKE
The perfect connection.





About **LUDECKE**



Company History



Ethical Values



Production



Logistics



The **LUDECKE**
Sales Team



Marketing



lernBAR -
The **LUDECKE** Academy





The Perfect Connection

Since more than 80 years, **LUDECKE** is the leading partner for developing, engineering and providing coupling systems to connect flexible fluid lines with tools, machines and industrial equipment.

Since 1949, we have been manufacturing fittings at the headquarters in Amberg for a variety of applications and media, which are distributed throughout over 120 countries worldwide by the technical trade or used by the leading machine manufacturers (OEM) in their own machinery.

The product portfolio is comprised of a comprehensive standard range as well as individual custom item projects - Engineered and Made in Germany.

LUDECKE's quality management is accredited with ISO 9001-2008 since 1994. Our quality standards exceed highest requirements. From 2015 on we have also been certified according to the environmental management (ISO 14001-2004) and energy management (ISO 50001-2011).





Our Values – Our Promise Continuity in Innovation through Progression and Flexibility

With the development of today's worldwide used claw coupling for compressed air, the success story began in 1930 for the engineer, Emil Georg Lüdecke.

Today, we manufacture over 20.000 products and perform as an experienced and competent partner for all kinds of coupling systems in the low-pressure range – Engineered and MADE IN GERMANY.



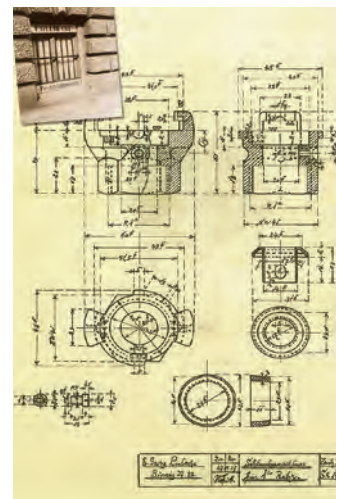
Emil Georg LÜDECKE
(1930 - 1973)
Founder of Lüdecke



Erwin Bogner
(1956 - 2015)
Chief Executive Officer
(CEO)



Klaus Herdegen
(since 2000)
Chief Executive Officer
(CEO)



Technical drawing of a Claw Coupling in the year 1937

1930: E. Georg Lüdecke KG was founded in Leipzig by Emil Georg Lüdecke

1949: After destruction new beginning in Amberg

1969: Construction of the new Drahthammer factory

1995: Founding of **LUDECKE** GmbH

2007: Construction of the new administration building

2013: Initial operation of the new fully automatic high rack warehouse

2015: Beginning of the new construction (production halls, training centre, canteen), new sales structure

2016: Initial operation of the new production halls

2017: Initial operation of the training centre and the canteen



Green Company A shared Responsibility

Not only sustainable action, but also taking responsibility. **LUDECKE** has taken top priority with this intention. We describe in our first sustainability report how to implement these guiding principles in the company. Alongside of the ecological and economic aspects, the social aspects are also standing in focus.

Environment



Products - Production - Other Activities

Economy



Customers - Suppliers - Local business development

Social



Employees - Society

We care not only to supply our customers with high-quality products on a long-term basis, but also to interact responsibly in regards to employees, partners, the environment and the society. It is important to transfer the responsibility to all areas of the company, starting with the selection of materials and the suppliers, spanning over to the development and production through to sales and logistics, including numerous miscellaneous activities.

The coupling systems are streamline optimized to reduce energy costs and increase the durability and lifespan of machinery and tools. Furthermore, we solely manufacture with locally generated, green electricity and heat our buildings with an environmental friendly heat-recovery power plant.

The goal is to be even more efficient on a long-term basis and at the same time create an additional benefit for all parties. **LUDECKE** leads the way as a role model and proves that sustainable action does not parallel higher costs, but also makes an excellent contribution to efficiency and profitability. Sustainable decisions ensure long-term economic success.



Since 1930 - Quality through Precision from Amberg

Being able to produce competitively in Germany requires a high degree of optimized automation and processes. To guarantee this continuously our employees use the latest mechanical technology and therefore ensure the highest quality. From construction and engineering to CIM- production up to an automatic quality management - we guarantee a maximum of innovation, safety and customer service at all times.



Because of our in-house production it's possible for us to react fast and flexible following different customer requests. Additional to our core competency we work together with efficient and specialized partners in the areas of surface and heat treatment.

Our production shows a significant variety of CNC high-performance turning machines, mechanical turning machines, CNC milling machines, multi spindle chucking automatics, CNC six spindle turning machines, CNC automatic rotary machines, part washes, thread coating machines, laser inscription, electroplating plant, tool engineering, assembly lines, packing machines according to the latest technique.

A bar code system guarantees full traceability from the receipt of raw materials up to sales and ensures a controlled and optimized production and material flow. An ongoing IT-supported supervision via MES-System of all our production processes guarantees an ultimate level of quality.



Perfect Service through Quickness and Reliability Worldwide

Supported by latest IT technology in manufacturing, sales and logistics, we guarantee a quick, reliable best in class service for our 20.000 different products.



The fully automatic warehouse system is directly linked with our data systems to ensure a lean process up to the shipping department. This also allows flexibility in our delivery performance and transparent commission.

Quickness and flexibility are our principles. Furthermore, we are driving various development processes to upgrade our service level on a regular basis.

The **LÜDECKE** Sales Team

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Marketing

A successful company is committed to its partners. We actively support various marketing activities of our partners. Additionally, we offer training and support on site at the customer. If desired we also realize them together with the end customer.

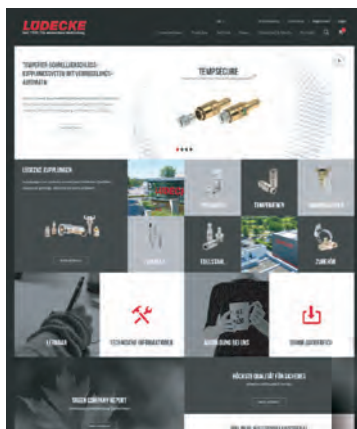
In our main catalogue including the brochures (Pneumatics, Temperature Regulation, Construction Industry, Processing Industry and Water Application) offer a comprehensive overview of the **LUDECKE** product portfolio. Furthermore, we offer comprehensive product data and pictures, support in the sectors print and online, press, exhibition, sales promotion and advertising.

Of course, you can get all information in hard copy or as an online version as well as in German, English or Spanish. Complete technical data sheets for all of our products can be submitted upon request.

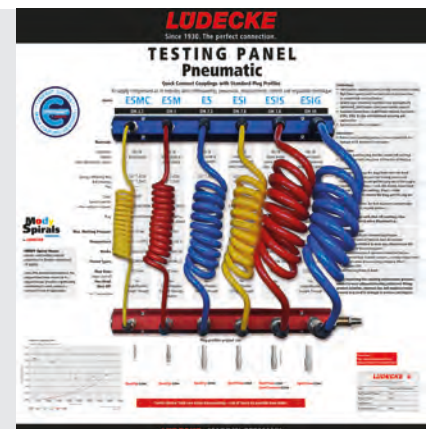
Print



Online



Exhibition





lernBAR The **LUDECKE** Academy

You are planning individual seminars, conferences or meetings with employees, customers or partners? You place importance to a high-quality ambience and need comprehensive equipment? You don't like to leave anything to chance and are interested in a professional all around service? We recommend you the new and exclusive offer of the **LUDECKE** lernBAR.



lernBAR - The **LUDECKE** academy (training room)



kostBAR - The **LUDECKE** dining room (canteen)



kostBAR - The **LUDECKE** dining room (canteen)



Target group:

Customers, partners, economic actors, etc.

Spaces:

Training room (lernBAR - 86.5 qm, for up to 36 persons), rooftop terrace (105 qm), lavatories, wardrobe, parking spaces, canteen (kostBAR), kitchen incl. bar (kuppelBAR)

Equipment:

Individual seating arrangements, speaker's desk, media-screen incl. flexible controllable sound system, presenter, FlipChart, WhiteBoards, facilitator's toolbox, writing utensils, WiFi

Services:

Catering, company tour, framework programme, certificates

Contact:

lernbar@luedecke.de

At **LUDECKE** you will get a spacious and air-conditioned room flooded with light and equipped with the latest seminar technology. When the weather is nice you can additionally use the rooftop terrace with a wonderful view to the city of Amberg and the "Mariahilfberg". Of course we provide separate lavatories, a wardrobe as well as parking lots close by.

Additional to our rooms we offer a complete catering service with healthy and balanced food. Start your event with a delicious breakfast/ coffee break, enjoy an exquisite lunch in our new kostBAR (canteen) or exclusive in the kuppelBAR (seminar meeting point/ bar) and relax a little during the exhausting day with delicious coffee/ fruit breaks. Of course we offer you an all-in beverage charge during the whole event.

After an achieving conference we recommend our beautiful city Amberg for various After-Work-Events. We would be pleased to help you with the planning of an evening program or the search for an accommodation.

More information on www.luedecke.com.



Product Range

MADE IN GERMANY



Product Range Overview



New Products



Criteria for Product Selection



Industries



Pneumatics



Temperature Regulation



Construction Industry



Processing Industry



Water Application



Accessories



The most Comprehensive Range of Coupling Systems and Accessories - MADE IN GERMANY

We offer the widest range of high quality connectors for various applications and different media. We guarantee the right solution for every application within this comprehensive range of fittings, couplings, plug profiles and accessories.



Pneumatics

The versatile and high-quality **LUDECKE** quick connect coupling systems are perfect for any compressed air application. We'd like to point out our energy efficient and with different safety mechanisms equipped quick connect couplings as well as our MODY-spiral hoses of polyurethane.

- European and international plug profiles
- Wide range of accessories (MODY-spiral hoses, blow-off guns and valves, pneumatic fittings)



Temperature Regulation

The most comprehensive range of coupling systems for temperature regulation applications in the plastics moulding industry. We guarantee 100% reliability by first-class quality while connecting our products in the field of injection or die casting moulds.

- European and international plug profiles as well as the original STÄUBLI series RPL
- TempSecure: patented temperature regulation quick connect coupling system with automatic locking mechanism



Construction Industry

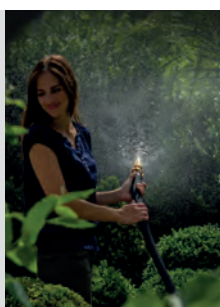
We produce robust and reliable coupling systems, for use in harsh environments. At **LUDECKE** you can find a complete range of construction fittings: From the classic claw and mortar couplings as well as sandblast couplings up to complete screwing sets and various accessories (throttle valves, hose clamps, etc.)



Processing Industry

In our product range for the processing industry you will find the perfect product for any application with specific hygiene standards or for conveying aggressive media.

- Couplings and fittings made of stainless steel 1.4305, 1.4401 and 1.4404
- Wide product portfolio: Quick connect couplings and claw couplings as well as fittings and accessories



Water Application

Whether for professional or private use: We offer coupling systems for water supply to be used in the industry, crafts, gardening, landscaping, interchangeable with the market standard plug profile.

- WaterProfi quick connect couplings and claw couplings as well as spray nozzles and wand nozzles
- Claw couplings for drinking water and elevated hygiene requirements
- ALBA KRAPF hose reels, wall hose reels and wall hose holders



New Products

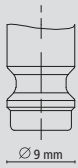
As an innovative company our objective is always to continuously develop and optimize our product range. The aim is to always offer a high-quality, first-class and progressive range. Here you can find an overview of the most important new products from **LUDECKE**.

Pneumatics

Mini Quick Connect Couplings Series ESM DN 5 - Double Shut-Off Nickel-Plated Version

NEW!

Plug profile (original size)



We now offer the mini one-hand quick connect coupling Series ESM DN 5 (double shut-off) also in brass MS 58 nickel-plated.

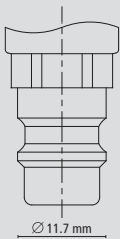
- Series with very small dimensions
- Designed for the usage in restricted space conditions
- Available with single shut-off and as leakage-free version

Page 43

Safety Industrial Quick Connect Couplings Series ESIK DN 7.8

NEW!

Plug profile (original size)



New in our range, the safety industrial quick connect coupling Series ESIK DN 7.8 with locking nut and plug codification, can be found.

- One-hand quick connect coupling of brass MS 58 nickel-plated/ steel hardened and nickel-plated
- Simple and effective protection to avoid accidental disconnection due to locking nut on coupling body
- Only the same coded couplings and plugs can be connected
- For application of compressed air or liquid media, e.g. for sewer cleaning and sanitation

Page 74

Quick Connect Couplings Series ESB DN 5.5

NEW!

Plug profile (original size)



We completed our product range of international plug profiles in the pneumatics with quick connect couplings Series ESB DN 5.5.

- High-quality, extreme robust one-hand quick connect couplings of brass MS 85 nickel-plated/ steel hardened and nickel-plated with British plug profile
- For the supply of compressed air or fluid and gaseous media in industry and craftsmanship

Page 84

Manifold for Quick Connect Couplings made of Plastic

NEW!



Additional to the **LUDECKE** manifolds of brass, we now also offer plastic manifolds (with brass inserts).

- Simple installation for wall mounting
- For compressed air on central distribution point

Page 53/ 120

MODYFLEX PUR Spiral Hose made of Polyurethane

NEW!



For applications with high working pressure, we recommend the new **LUDECKE** MODYFLEX PUR spiral hose.

- Hose of extreme robust, light and flexible reinforced polyurethane (polyether polyurethane)
- Robust and extreme durable hose
- Extra long straight end for more work flexibility
- For the flexible compressed air supply on compressed air tools and assembly lines in pneumatic, automation, motion and control technology, etc.

Page 105

Compressed Air Blow-off Gun with Zinc Die Cast Body

NEW!



We complemented our range of blow-off guns with another premium product.

- Blow-off gun of die cast zinc/ aluminium
- Nozzle with "Coanda Effect" produces exceptional air stream
- According to OSHA
- For cleaning of working places and parts in industry, garages, etc.

Page 117

Temperature Regulation

TempSecure in Stainless Steel - Series ESHMTE DN 6/ ESHT DN 9

NEW!



The patented **LUDECKE** TempSecure range is now also available in stainless steel for the series ESHMT DN 6/ ESHT DN 9 and therefore, perfect for use with increased hygiene demands.

- Automatic locking mechanism, colour coding and forced guidance
- Simple and effective protection against unintended disconnection under pressure
- For temperature regulation applications with hot or cold water as well as tempered oil e.g. in clean room areas (high temperature resistant)

Page 164/ 167

TempSecure for International Plug Profiles - Series ESDMT DN 6/ ESDT DN 9

NEW!



Also new in the **LUDECKE** TempSecure range, we included the series ESDMT DN 6 and ESDT DN 9 (fully compatible to the international plug profile)

- Temperature regulation quick connect couplings of extremely resistant special brass
- Automatic locking mechanism, colour coding and forced guidance
- Simple and effective protection against unintended disconnection under pressure
- For temperature regulation applications with hot or cold water as well as tempered oil e.g. in clean room areas (high temperature resistant)

Page 174 /184

Construction Industry Claw Couplings - Different Thread Versions

NEW!



The **LUDECKE** claw couplings are now available for various series with BSPP threads as well as NPT threads.

- High flexibility due to different connection types
- Identical coupling head: the connection types and sealing systems can be connected with each other
- Worldwide used system for the compressed air supply in construction and industry

Page 231 ff.

Processing Industry Quick Connect Couplings and Fittings for Cleaning Applications

NEW!



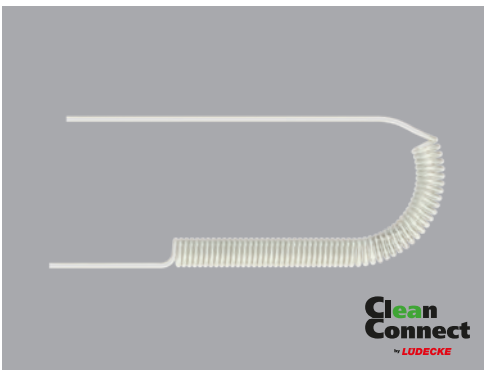
We are pleased to present you the new **LUDECKE** CleanConnect range for cleaning applications in the food industry.

- High-quality, for special system demands of stainless steel
- Various fittings (screwings, quick connect couplings), different sizes and connection types
- For cleaning applications in the food processing plants as well as for elevated hygiene requirements

Page 320

MODY-CleanConnect Spiral Hoses made of Polyurethane

NEW!



For applications with specific hygiene regulations or for conveying of various critical media we recommend the new MODY-CleanConnect Spiral Hose.

- Made of high-quality, transparent polyurethane (on polyether polyurethane)
- Resistant to microbes and hydrolysis, oil, gas and chemical resistant, good cold flexibility
- High abrasion, pressure and wear resistance as well as extreme and constant recoil of the spiral
- Perfect elasticity, flexibility, can be driven over, crush-resistant, free of taste and smell
- For combination with quick connect couplings/ plugs as well as compressed air blow-off valves of stainless steel

Page 109/ 303

Compressed Air Blow-off Valve made of Stainless Steel

NEW!



As a perfect addition to the MODY-CleanConnect spiral hose you can also find our new compressed air blow-off valve made of stainless steel in our range.

- Blow-off valve made of stainless steel with plug connection for constant use under extreme working conditions
- For cleaning of working places or parts in applications with specific hygiene requirements

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Water Application

WaterProfi Quick Connect Couplings Series WS DN 9 - Squeeze Nut Connection

NEW!



The WaterProfi quick connect couplings series WS DN 9 are now available with a squeeze nut and make it easy to assemble the coupling and plug.

- High-quality one-hand quick connect couplings of brass MS 58 nickel-plated
- Interchangeable with standard plug profile types
- For water lines in industry, crafts, agricultures, landscaping, gardening and household

Page 366

ALBA KRAPP Hose Reels - ALBA PROFI Series II, ALBA SUPER PROFI Series II

NEW!



Get convinced by the new hose reel series from ALBA KRAPP: ALBA PROFI Series II and ALBA SUPER PROFI Series II.

- Very robust whole metal construction, best rust prevention due to hot galvanisation, almost indestructible
- Better stability, high water flow capacity (+50%), fast and simple mounting, new design and customer-friendly maintenance
- For flexible water supply in industry, trade, road construction, military gravel plant, railways, shipyards, fisheries, etc.

Page 399

Accessories

Heavy Duty Clamps

NEW!



In addition to our various clamping types we now also offer high-quality heavy duty clamps.

- Heavy duty clamp of steel zinc-plated
- New special screw (with distance tube), reinforced band straps (high breaking torque/ high clamping force), mechanical mounting (no welding points/ corrosion contact), bridge (hose relief), simple installation
- For applications with strict requirements for hose clamps

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Criteria for Product Selection

MEDIA



Media

Compressed air
Fluids
Steam
Oil, Vacuum
Chemical substances
Mortar / Floor screed / Basting material



Pressure range

Working pressure
Pressure peaks



Temperature

Media
Environment
In operation / Off operation



Flow characteristics

Viscosity of the media
System dynamic

APPLICATION



Industrial segment

Pneumatics
Temperature Regulation
Construction Industry
Water Application
Processing Industry



Surrounding

Indoor / Outdoor
Stationary / Mobile operation
Dry / Wet
Temperature



Space

Mounting position
Tube bending



Handling

One-hand operation
Two-hand operation

MISCELLANEOUS



Assembly

Serial production
On site installation
Industrial mounting
Maintenance
Type of hose



Specifications

Customised
International normatives
Certifications



Others

Energy efficiency
Branding
Additional safety features

Optimum solution: The suitable product

- High reliability
- Best sealing capabilities
- Simple handling and installation
- Overall safety
- Extraordinary durability



Industries

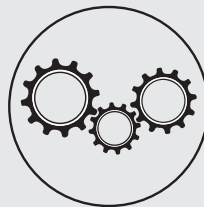
You can find the **LUDECKE** product range in a variety of applications and industries.



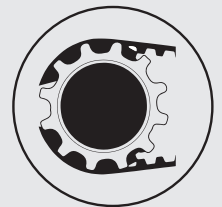
Fluid technology



Industry



Machine and
Plant Construction



Drive Technology



Plastics Technology



Construction Industry



Chemical Technology



Pharmaceutical and
Medical Engineering



Food Industry



Snowmaking Technology



Gardening and
Landscaping



Craftmanship



Petrochemical Industry



Transport and Traffic



Shipbuilding



Automotive



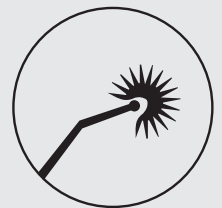
Agriculture



Municipal Technology



Electrical Engineering



Welding Technology



Household



Renewable Energies



Textile Industry



Pneumatics





Quick Connect Couplings
European Plug Profiles



Quick Connect Couplings
International Plug Profiles



MODY-Spiral Hoses



Blow-off Valves and
Blow-off Guns



Pneumatic Screwings
and Fittings



Hose Clamps, Hose Clips,
Ferrules



**Opti
Flow**
by **LUDECKE**

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45 Mini Quick Connect Couplings Series ESMLA DN 5

46 Quick Connect Couplings Series ES DN 7.2

53 Manifolds for Quick Connect Couplings **NEW!**

OptiFlow-Line

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56 Industrial Quick Connect Couplings Series ESI DN 7.8

58 Industrial Quick Connect Couplings Series ESIG DN 10

60 Industrial Quick Connect Couplings Series ESG DN 19

SafeConnect-Line

62 Product Information

68 Safety Self-Venting Couplings Series ESIS DN 7.8

70 Safety Self-Venting Couplings Series ESPN DN 7.4

71 Safety Quick Connect Couplings Series ES DN 7.2

72 Safety Industrial Quick Connect Couplings Series ESI DN 7.8

74 Safety Industrial Quick Connect Couplings Series ESIK DN 7.8 **NEW!**

76 Breathing Air Couplings Series ES1A DN 7.4

77 Breathing Air Couplings Series ES1A DN 7.4

78 Safety Quick Connect Couplings Series ESMK DN 5

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84 Quick Connect Couplings Series ESB DN 5.5 **NEW!**

85 Industrial Quick Connect Couplings Series ESBI DN 5

86 Quick Connect Couplings Series ESA DN 5.5

88 Industrial Quick Connect Couplings Series ESAI DN 5.5

89 Quick Connect Couplings Series ESO DN 5.5

90 Industrial Quick Connect Couplings Series ESOI DN 5.5

91 Industrial Quick Connect Couplings Series ESIOG DN 9

92 Quick Connect Couplings Series ESK DN 7.5

94 Industrial Quick Connect Couplings Series ESAC DN 8

95 Industrial Quick Connect Couplings Series ESACG DN 10

96 Quick Connect Couplings Series F1K DN 8

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A Superior Product Range for Compressed Air



Due to the high level of automation of modern manufacturing facilities, compressed air plays a significant role as an energy source within industrial companies. An easy and efficient way to work with compressed air is the base for every industrial company.

The versatile, high-quality **LUDECKE** quick connect coupling systems are ideally suited for compressed air applications and pneumatics. It guarantees a quick, easy to use and safe connection and disconnection of tools, machines and hoses with high efficiency.

Advantages:

- High-quality materials
- Sturdy, reliable, totally leak-proof and durable
- Easy to couple
- Various sizes and connection types
- Energy efficient quick connect couplings equipped with different safety mechanisms
- Numerous possible applications for pneumatics, measurement and control technology

Wide Selection

To ensure the greatest possible compatibility and enable worldwide use, the **LUDECKE** product range contains a large selection of european and international plug profiles.

If there is no coupling system in our product range, which meets your requirements, we will be pleased to create an individual solution with you.



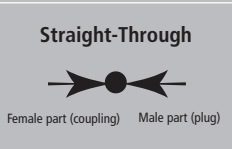
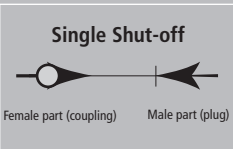
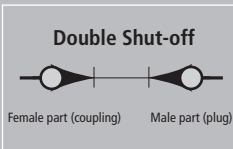
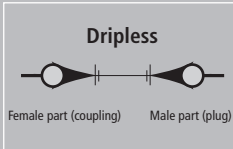
European plug profiles



International plug profiles

Valve Designs

The **LUDECKE** quick connect couplings are available in different valve designs.

<p>Straight-Through</p>  <p>Female part (coupling) Male part (plug)</p>	<p>Single Shut-off</p>  <p>Female part (coupling) Male part (plug)</p>	<p>Double Shut-off</p>  <p>Female part (coupling) Male part (plug)</p>	<p>Dripless</p>  <p>Female part (coupling) Male part (plug)</p>
<ul style="list-style-type: none"> • No valve - neither within the coupling nor within the plug • Maximum flow rate • During disconnection: a leakage of the media from the coupling and plug line occurs 	<ul style="list-style-type: none"> • Straight-through plug • Coupling with valve • During disconnection: a media leakage from the plug line is possible 	<ul style="list-style-type: none"> • Valves on both sides (male/female) • During disconnection: no leakage appears of coupling and plug, constant pressure 	<ul style="list-style-type: none"> • Valves on both sides (male/female) • During disconnection: only a minimal film of the media can leak out (no drop formation)

Materials

LUDECKE uses for all of their products only excellent materials which are adjusted for every application area.

- Brass (plain/ nickel-plated)** Most of the **LUDECKE** quick connect couplings consist of brass MS 58 (machining brass). It is a very sturdy material which guarantees high durability, and can be excellently galvanized (nickel-plating).
- Steel (machining steel)** If products are used under tough conditions (i.e. in foundries), they need to be manufactured out of machining steel (hardened, nickel-plated or zinc-plated). This material guarantees the possibility to weld, harden and provides a long lifetime.
- Stainless steel** For applications with specific hygienic standards or rather conveying various different media, quick connect couplings made of stainless steel are required. Further information can be found in our program for processing industry (© page 276)
- Seals** Subject to the application and/or requirement, **LUDECKE** offers various sealing types made out of Buna N, EPDM, FKM or FFKM. Of course we only use sealing compounds which satisfy the proven standards.

Connecting within Seconds

The **LUDECKE** quick connect couplings are characterized by an extra easy handling.



One-hand operation: To connect simply push the plug into the coupling.



To disconnect pull back the sleeve of the coupling (ball or pin locking opens automatically and releases the plug)





Quick Connect Couplings with European Plug Profiles

Each application area is confronted with various challenges and sets priorities in accordance with the individual requirements. To comply to all applications, **LUDECKE** offers three different lines of quick connect coupling systems with European plug profiles.



Quality-Line

Unlimited Flexibility

The **LUDECKE Quality-Line** offers a high-quality coupling portfolio, in various dimensions, which covers all kinds of applications.

- Micro Quick Connect Couplings, Series ESMC DN 2.7
- Mini Quick Connect Couplings, Series ESM DN 5 (also available as dripless version)
- Quick Connect Couplings, Series ES DN 7.2



OptiFlow-Line

Energy Efficient Quick Connect Couplings

The products from the **LUDECKE OptiFlow-Line** offer energy-optimized coupling systems, which achieve higher flow rates and significantly reduce the energy consumption. This leads to a decrease of energy costs as well as an increase of the durability and the lifetime of the machines.

→ For the Series ESI1A DN 7.4 / ESI2A DN 7.4 / ESI DN 7.8 / ESIK DN 7.8 / ESIS DN 7.8 / ESIG DN 10 / ESG DN 19



SafeConnect-Line

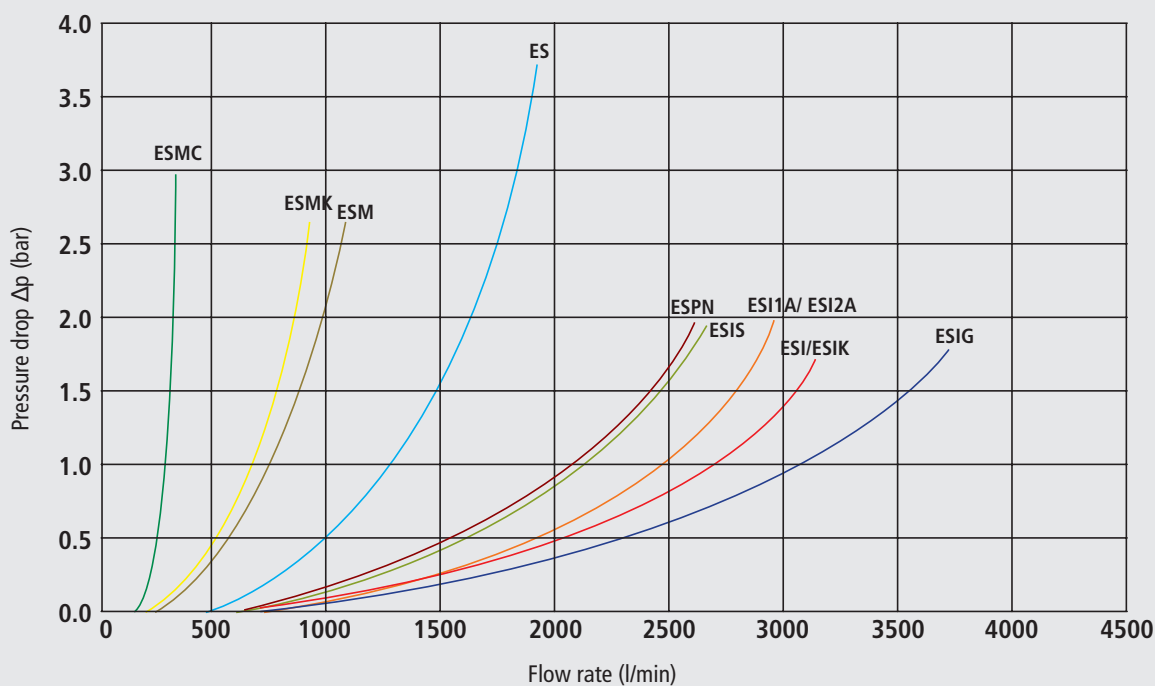
Quick Connect Couplings with Safety Function

The **LUDECKE SafeConnect-Line** offers various coupling systems which reliably prevent any possible problems (e.g. whip-lash-effect, high noise level, false coupling).

→ For the Series ESIS DN 7.8 / ESPN DN 7.4 / ES DN 7.2 / ESI DN 7.8 / ESIK DN 7.8 / ESI1A DN 7.4 / ESI2A DN 7.4 / ESMK DN 5

Flow Chart

The flow rates of our coupling systems are summarized in the following chart.



Flow-measurements
upstream pressure: 6 bar [ü]
Media: Air

Quality ESMC **SafeConnect** ESMK **Quality** ESM **Quality** ES **SafeConnect OptiFlow** ESIS **SafeConnect** ESPN **SafeConnect OptiFlow** ES11A/ 2A **SafeConnect OptiFlow** ESI/ESIK **OptiFlow** ESIG

Testing Panel

For training sessions and comprehensive tests of our quick connect couplings we developed our Testing Panels. These sample bars represent the quick connect coupling series from DN 2.7 up to DN 10 of our **Quality** - **OptiFlow** - and **SafeConnect-Line**, as well as the MODY spiral hoses under pressure.

Your advantages:

- Extensive information about each product and the mode of operation
- Testing of high-quality products under real practice conditions (the coupling procedure may be executed even with a media flowing through the lines)
- Multilingual: German and English (on request also other languages)



Product Information

Functional Description



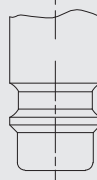
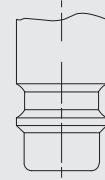
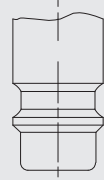
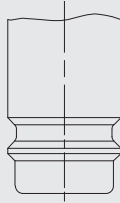
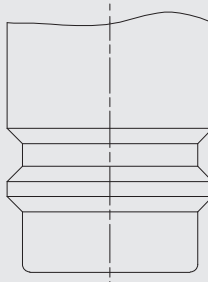





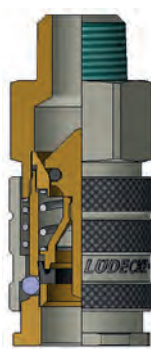








Application Possibilities (connecting)

Compressed Air Connections

Pressure of the panel is reduced to 3 bar

We offer the testing panels at cost price. If you are interested please contact our expert sales team.

Overview of the Quick Connect Couplings with

	Quality-Line			OptiFlow-Line			
Series	ESMC DN 2.7	ESM DN 5	ES DN 7.2	ESI DN 7.8	ESIS DN 7.8	ESIG DN 10	ESG DN 19
Plug Profile (original size)	 ∅ 5 mm	 ∅ 9 mm	 ∅ 12 mm	 ∅ 12 mm	 ∅ 12 mm	 ∅ 15 mm	 ∅ 27 mm
							
							
Materials:	Body: Brass MS 58 nickel-pl. Sleeve: Brass MS 58 nickel-pl. Valve Body: Brass MS 58 nickel-pl. Valve: Brass MS 58 nickel-pl. Springs, Retaining ring: Stainless steel 1.4310 Balls: Stainless steel 1.3541 Pins: – Seals: Buna N Special seals for other media on request: EPDM, FKM, FFKM Plug: Brass MS 58 nickel-pl.	Body: Brass MS 58 (plain/n-pl.) Sleeve: Brass MS 58 (plain/n-pl.) Valve Body: Brass MS 58 (plain/n-pl.) Valve: Brass MS 58 (plain/n-pl.) Springs, Retaining ring: Stainless steel 1.4310 Balls: Stainless steel 1.3541 Pins: – Seals: Buna N Special seals for other media on request: EPDM, FKM, FFKM Plug: Brass MS 58 (plain/n-pl.) /steel zinc-plated	Body: Brass MS 58 (plain/n-pl.) Sleeve: Brass MS 58 (plain/n-pl.) Valve Body: Brass MS 58 (plain/n-pl.) Valve: Brass MS 58 (plain/n-pl.) Springs, Retaining ring: Stainless steel 1.4310 Balls: – Pins: Stainless steel 1.4305 Seals: Buna N Special seals for other media on request: EPDM, FKM, FFKM Plug: Brass MS 58 (plain/n-pl.) /steel zinc-plated	Body: Brass MS 58 nickel-plated Sleeve: Steel hardened+nickel-pl. Valve Body: Brass MS 58 nickel-plated Valve: Brass MS 58 nickel-plated Springs, Retaining ring: Stainless steel 1.4310 Balls: Stainless steel 1.4034 Pins: – Seals: Buna N Special seals for other media on request: EPDM, FKM, FFKM Plug: Steel hardened+nickel-pl.	Body: Brass MS 58 nickel-pl. Sleeve: Steel hardened+nickel-pl. Valve Body: Brass MS 58 nickel-pl. Valve: Brass MS 58 nickel-pl. Springs, Retaining ring: Stainless steel 1.4310 Balls: Stainless steel 1.4034 Pins: – Seals: Buna N Special seals for other media on request: EPDM, FKM, FFKM Plug: Steel hardened+nickel-pl.	Body: Brass MS 58 nickel-pl. Sleeve: Steel hardened+nickel-pl. Valve Body: Brass MS 58 nickel-pl. Valve: Brass MS 58 plain Springs, Retaining ring: Stainless steel 1.4310 Balls: Stainless steel 1.4034 Pins: – Seals: Buna N Special seals for other media on request: EPDM, FKM Plug: Steel hardened+nickel-pl./Brass MS 58 nickel-plated	Body: Brass MS 58 plain Sleeve: Brass MS 58 plain Valve Body: Brass MS 58 plain Valve: Brass MS 58 plain Springs, Retaining ring: Stainless steel 1.4310 Balls: Stainless steel 1.4034 Pins: – Seals: Buna N Special seals for other media on request: EPDM, FKM, FFKM Plug: Brass MS 58 plain
Max. Working Pressure:	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar	PN 12 bar	PN 35 bar	PN 35 bar
Temperature:	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C
Thread types:	ISO 228/DIN 13	ISO 228/DIN 13	ISO 228/DIN 2999/ DIN 13	ISO 228/DIN 2999	ISO 228/DIN 2999	ISO 228/DIN 2999	ISO 228
Flow rate: at 6 bar [ü] and 0,5 bar press. drop single shut-off	165 l/min	510 l/min	1000 l/min	2000 l/min	1700 l/min	2150 l/min	8000 l/min
Type of valve:	single/double/straight through	single/double/straight through/dripless	single/double/ straight through	single/double/ straight through	single	single/double/ straight through	single/ double
Operation:	One-hand	One-hand	One-hand	One-hand	One-hand	One-hand	One-hand
Page:	38	40	46	56	68	58	60

European Plug Profiles

SafeConnect-Line

NEW!

ESIS*
DN 7.8

ESPN
DN 7.4

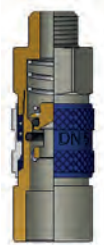
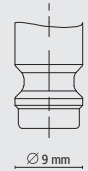
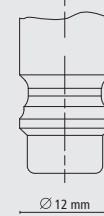
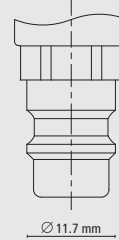
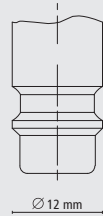
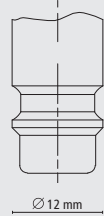
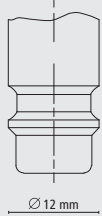
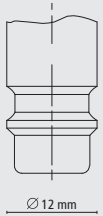
ES
DN 7.2

ESI*
DN 7.8

ESIK*
DN 7.8

ESI1A/2A*
DN 7.4

ESMK
DN 5



Brass MS 58 nickel-pl.
Steel hardened+nickel-pl.
Brass MS 58 nickel-pl.
Brass MS 58 nickel-pl.
Stainless steel 1.4310
Stainless steel 1.4034

Steel zinc-plated
Plastic compound material
Steel zinc-plated
Steel zinc-plated
Stainless steel
Stainless steel

Brass MS 58 plain
Brass MS 58 plain
Brass MS 58 plain
Brass MS 58 plain
Stainless steel 1.4310
–
Stainless steel 1.4305

Brass MS 58 nickel-pl.
Steel hardened+nickel-pl.
Brass MS 58 nickel-pl.
Brass MS 58 nickel-pl.
Stainless steel 1.4310
Stainless steel 1.4034

Brass MS 58 nickel-pl.
Steel hardened+nickel-pl.
Brass MS 58 nickel-pl.
Brass MS 58 nickel-pl.
Stainless steel 1.4310
Stainless steel 1.4034

Brass MS 58 nickel-pl.
Brass MS 58 nickel-pl.
Brass MS 58 nickel-pl.
Brass MS 58 nickel-pl.
Stainless steel 1.4310
Stainless steel 1.4310

Brass MS 58 plain
Aluminium anodised
Brass MS 58 plain
Brass MS 58 plain
Stainless steel 1.4310
Stainless steel 1.3541

–
Buna N

–
Buna N

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Buna N

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Buna N

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Buna N

–
Buna N

–
Buna N

EPDM, FKM, FFKM

–

–

EPDM, FKM, FFKM

EPDM, FKM, FFKM

EPDM, FKM, FFKM

EPDM, FKM, FFKM

Steel hardened+nickel-pl.

Steel hardened+nickel-pl.

Brass MS 58 (plain/n-pl.)
/Steel zinc-plated

Steel hardened+nickel-pl.

Steel hardened+nickel-pl.

Brass MS 58 nickel-pl.

Brass MS 58 with
anodised alu. ring
PN 35 bar

PN 12 bar

PN 12 bar

PN 35 bar

PN 35 bar

PN 35 bar

PN 35 bar

PN 35 bar

-20°C – +100°C

-15°C – +70°C

-20°C – +100°C

-20°C – +100°C

-20°C – +100°C

-20°C – +100°C

-20°C – +100°C

ISO 228/DIN 2999

ISO 228

ISO 228

ISO 228/DIN 2999

ISO 228/DIN 2999

ISO 228/DIN 2999

ISO 228

1700 l/min

1650 l/min

1000 l/min

2000 l/min

2000 l/min

1800 l/min

430 l/min

single

single

single

single

single

single

single

One-hand
68

One-hand
70

One-hand
71

One-hand
72

One-hand
74

One-hand
74/ 77

One-hand
78

Self-venting

Sleeve lock mechanism

Visual indication



Quality-Line

Unlimited Flexibility




With the **LUDECKE Quality-Line** you will receive high quality coupling systems, in various dimensions, which cover all kinds of applications: From the standard quick connect couplings up to micro quick connect couplings.

It is a proven program - absolutely easy, quick and safe handling.

The **LUDECKE Quality-Line** is suitable for various applications in pneumatics, compressed air supply, measuring and regulation technology.

Different Sizes and Versions

The products of the **LUDECKE Quality-Line** are available in different sizes, connection and valve types as well as materials. On request you can get the coupling Series ESMC and ESM also with red or blue anodized aluminium sleeve.

Micro Quick Connect Couplings	Mini Quick Connect Couplings		Quick Connect Couplings The original
<ul style="list-style-type: none"> Series with smallest dimensions Enables the usage even in limited areas 	<ul style="list-style-type: none"> Series with reduced dimension For the usage in restricted space Available as dripless version 		<ul style="list-style-type: none"> Series with standard dimensions
<p>Series: ESMC DN 2.7</p>	<p>Series: ESM DN 5</p>	<p>Series: ESMLA DN 5</p>	<p>Series: ES DN 7.2</p>
			



The Original: The One-Hand Quick Connect Coupling Series ES DN 7.2

The original



With its quick connect coupling system ES DN 7.2 **LUDECKE** offers a proven, high quality and robust product for decades.

Advantages:

- Remaining solid design, which means there won't be any changes in the material quality
- Complete vacuum suitability despite a low connection force compared to every of the compatible models
- The sleeve design protects the coupling mechanism from dirt
- High-class seals (no reduced O-ring seals) which guarantees a tight plug even on extreme tilting moments

Operation

The quick connect couplings of the **Quality-Line** are all based on the same - for one-hand quick connect couplings typical - coupling principle



One-hand operation: connection through simple pushing the plug into the coupling.



To disconnect, slide the sleeve back, whilst the locking mechanism (ball or pin locking) opens automatically and hold the plug



Micro Quick Connect Couplings

Series ESMC single shut-off

DN 2.7



Also in
Stainless Steel
Series ESMCE
page 286

- High quality one-hand quick connect couplings with smallest dimensions made of brass MS 58 nickel-plated
- Robust, safe and reliable
- Couplings on request also available with red or blue anodised aluminium sleeve, or as straight through and double shut-off version
- **Multiple applications in pneumatics, measure, control and regulation technique**

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 nickel-plated
- Spring, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- O-rings: Buna N

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	2.7	ISO 228 / DIN 13	165 l/min	One-hand	Single shut-off	Air a.o.	Europe	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
M 5 m	26	9	10	5	9	ESMC 5 A
G 1/8 m	28	11	10	7	12	ESMC 18 A

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
M 5 f	26	9	10	5	10	ESMC 5 I
G 1/8 f	28	12	10	7	14	ESMC 18 I

Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 3	35	10	13	9	ESMC 3 T
Hose i.D. 4	35	10	13	10	ESMC 4 T
Hose i.D. 5	35	10	13	10	ESMC 5 T

For hose clips type ZOS (© page 414) or type HS (© page 415)

Couplings with squeeze nut

Hose connection	L	SW	D	Weight	Type No.
Hose 3x4	33	9	10	15	ESMC 34 TQ
Hose 3x5	33	9	10	15	ESMC 3 TQ
Hose 4x6	32	9	10	15	ESMC 4 TQ

Couplings with squeeze nut and bulkhead screwing

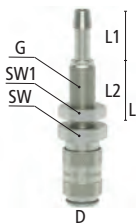
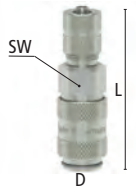
Hose connection	L	SW	D	L1	SW1	G	Weight	Type No.
Hose 3x4	45	12	10	17	11	M 7x0.5 m	26	ESMC 34 TQSV
Hose 3x5	45	12	10	17	11	M 7x0.5 m	26	ESMC 35 TQSV
Hose 4x6	45	12	10	17	12	M 8x0.5 m	26	ESMC 4 TQSV

Couplings with hose barb and bulkhead screwing

Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No.
Hose i.D. 3	51	12	10	13	17	11	M 7x0.5 m	24	ESMC 3 TSV
Hose i.D. 4	51	12	10	13	17	11	M 7x0.5 m	24	ESMC 4 TSV
Hose i.D. 5	51	12	10	13	17	12	M 8x0.5 m	24	ESMC 5 TSV

Coupling System ESMC also available straight through or with double shut-off for an additional charge.

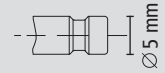
When ordering just add -AB to the regular Type No.i.e ESMC 5 IAB or ESMC 18 NAAB.



Micro Quick Connect Couplings

single shut-off Series ESMC

DN2.7



Plug Profile (original size)

Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
M 5 m	18	7	5	10	3	ESMC 5 NA
G 1/8 m	20	11	7	10	6	ESMC 18 NA

Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
M 5 f	17	7	5	10	3	ESMC 5 NI
G 1/8 f	19	12	7	10	6	ESMC 18 NI

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 3	24	7	13	10	2	ESMC 3 S
Hose i.D. 4	24	7	13	10	3	ESMC 4 S
Hose i.D. 5	24	9	13	10	3	ESMC 5 S

For hose clips type ZOS (© page 414) or type HS (© page 415)

Plugs with squeeze nut

Hose connection	L	SW	L1	Weight	Type No.
Hose 3x4	25	8	10	12	ESMC 34 SQ
Hose 3x5	25	8	10	12	ESMC 3 SQ
Hose 4x6	25	8	10	12	ESMC 4 SQ

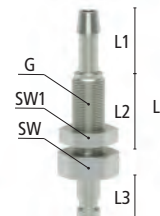
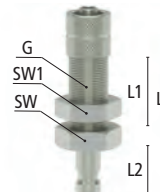
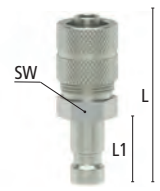
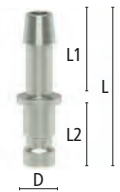
Plugs with squeeze nut and bulkhead screwing

Hose connection	L	SW	L1	L2	SW1	G	Weight	Type No.
Hose 3x4	38	12	17	10	11	M 7x0.5 m	23	ESMC 34 SQSV
Hose 3x5	38	12	17	10	11	M 7x0.5 m	23	ESMC 35 SQSV
Hose 4x6	38	12	17	10	12	M 8x0.5 m	23	ESMC 4 SQSV

Plugs with hose barb and bulkhead screwing

Hose connection	L	SW	L1	L2	L3	SW1	G	Weight	Type No.
Hose i.D. 3	45	12	13	17	10	11	M 7x0.5 m	21	ESMC 3 SSV
Hose i.D. 4	45	12	13	17	10	11	M 7x0.5 m	21	ESMC 4 SSV
Hose i.D. 5	45	12	13	17	10	12	M 8x0.5 m	21	ESMC 5 SSV

Special versions and versions in brass plain on request.



Mini Quick Connect Couplings

Series **ESM** single shut-off

DN5



Also in
Stainless Steel
Series **ESME**
page 289

- Mini one-hand quick connect couplings made of brass MS 58 plain or nickel-plated
- Robust, safe and reliable
- Couplings on request also available with red or blue anodised aluminium sleeve
- **Multiple applications in pneumatics, compressed air lines, measure-, control- and regulation technique**

Materials

- Body, sleeve, valve body, valve: Brass MS 58 plain/ nickel-plated
- Spring, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- O-rings: Buna N (on request EPDM, FKM or FFKM)
- Plug: Brass MS 58 plain/ nickel-plated or steel zinc plated and yellow passivated (free of chrome VI)

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	⊕
PN 35 bar	-20°C – +100°C	5	ISO 228 / DIN 13	510 l/min	One-hand	Single shut-off	Air a.o.	Europe	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 m	37	14	16	7	27	ESMN 18 A	ESM 18 A
G 1/4 m	38	17	16	9	36	ESMN 14 A	ESM 14 A
G 3/8 m	38	19	16	9	43	ESMN 38 A	ESM 38 A
M 10x1 m	37	14	16	7	35	ESMN 101 A	ESM 101 A
M 12x1.5 m	39	17	15	10	37	ESMN 121 A	ESM 121 A
M 14x1.5 m	39	17	16	10	37	ESMN 141 A	ESM 141 A

Male thread sealing with PVC-packing rings type HPD (⊕ page 231)

Couplings with female thread



Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 f	37	14	16	9	32	ESMN 18 I	ESM 18 I
G 1/4 f	38	17	16	9	38	ESMN 14 I	ESM 14 I
G 3/8 f	39	19	16	10.5	39	ESMN 38 I	ESM 38 I
M 10x1 f	38	14	16	9	36	ESMN 101 I	ESM 101 I
M 12x1.5 f	38	17	16	9	39	ESMN 121 I	ESM 121 I
M 14x1.5 f	38	17	16	9	37	ESMN 141 I	ESM 141 I

Couplings with hose barb



Hose connection	L	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	46	16	17	27	ESMN 4 T	ESM 4 T
Hose i.D. 5	46	16	17	27	ESMN 5 T	ESM 5 T
Hose i.D. 6	46	16	17	27	ESMN 6 T	ESM 6 T
Hose i.D. 8	46	16	17	29	ESMN 8 T	ESM 8 T
Hose i.D. 9	46	16	17	29	ESMN 9 T	ESM 9 T

For hose clips type ZOS (⊕ page 414), type HS (⊕ page 415) or crimping ferrules type LPH (⊕ page 418)

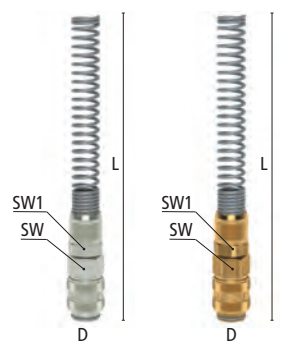
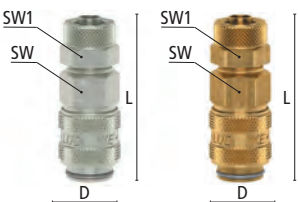
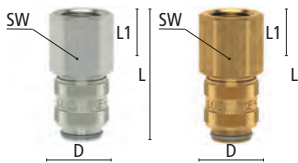
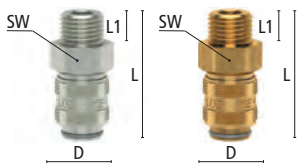
Couplings with squeeze nut (rigid and swivelling)

Hose connection	L	SW	D	SW1	Version	Weight	Type No. n. plated	Type No. plain
Hose 3x5	42	14	16	-	rigid	30	ESMN 35 TQ	ESM 35 TQ
Hose 4x6	43	14	16	12	rigid	32	ESMN 4 TQ	ESM 4 TQ
 Hose 4x6	60	14	16	12	swivelling	40	ESMN 4 TQDR	ESM 4 TQDR
Hose 6x8	43	14	16	14	rigid	34	ESMN 6 TQ	ESM 6 TQ
 Hose 6x8	60	14	16	14	swivelling	42	ESMN 6 TQDR	ESM 6 TQDR

Couplings with squeeze nut and spring guard (rigid and swivelling)

Hose connection	L	SW	D	SW1	Version	Weight	Type No. n. plated	Type No. plain
Hose 3x5	100	14	16	11	rigid	35	ESMN 35 TQF	ESM 35 TQF
Hose 4x6	120	14	16	12	rigid	39	ESMN 4 TQF	ESM 4 TQF
 Hose 4x6	130	14	16	12	swivelling	48	ESMN 4 TQFDR	ESM 4 TQFDR
Hose 6x8	130	14	16	14	rigid	44	ESMN 6 TQF	ESM 6 TQF
 Hose 6x8	140	14	16	14	swivelling	55	ESMN 6 TQFDR	ESM 6 TQFDR

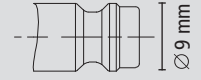
Special versions on request.



Mini Quick Connect Couplings

single shut-off Series ESM

DN5

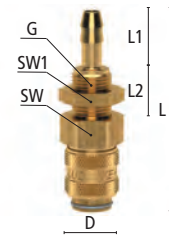


Plug Profile (original size)

Bulkhead couplings

Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No.
Hose i.D. 4	60	14	17	17	14	14	M 10x1 m	40	ESM 4 TSV
Hose i.D. 6	60	17	17	17	14	17	M 12x1 m	45	ESM 6 TSV
Hose i.D. 9	60	17	17	17	14	19	M 12x1 m	47	ESM 9 TSV

For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)



D

DS

L1

L

D

L1

L

D

L1

L

D

NEW!

Couplings with plug DN 7.2-ES-System adapter

Connection	L	D	L1	DS	Weight	Type No.
Plug ES DN 7.2	49	16	20	12	33	ESMK-ESS

DS

L1

L

D

L1

L

D

L1

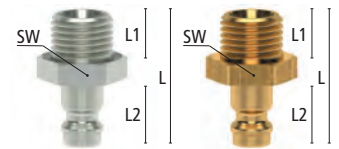
L

D

Plugs with male thread

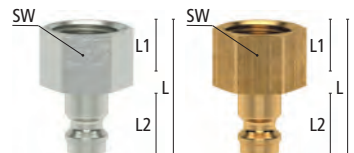
Thread connection	L	SW	L1	L2	Material	Weight	Type No. n. plated	Type No. plain
G 1/8 m	25	13	7	14	Brass MS 58	11	ESMN 18 NA	ESM 18 NA
G 1/4 m	27.5	17	9	14	Brass MS 58	18	ESMN 14 NA	ESM 14 NA
G 3/8 m	27.5	19	9	14	Brass MS 58	21	ESMN 38 NA	ESM 38 NA
M 10x1 m	26	13	8	14	Brass MS 58	11	ESMN 101 NA	ESM 101 NA
M 12x1.5 m	28.5	17	10	14	Brass MS 58	18	ESMN 121 NA	ESM 121 NA
M 14x1.5 m	28.5	17	10	14	Brass MS 58	19	ESMN 141 NA	ESM 141 NA
G 1/8 m	25	13	7	14	Steel zinc-pl.	10		ESM 18 NAS
G 1/4 m	27.5	17	9	14	Steel zinc-pl.	16		ESM 14 NAS

Male thread sealing with PVC-packing rings type HPD (© page 231)



Plugs with female thread

Thread connection	L	SW	L1	L2	Material	Weight	Type No. n. plated	Type No. plain
G 1/8 f	25	13	9	14	Brass MS 58	12	ESMN 18 NI	ESM 18 NI
G 1/4 f	26	17	10	14	Brass MS 58	18	ESMN 14 NI	ESM 14 NI
G 3/8 f	26.5	19	10.5	14	Brass MS 58	22	ESMN 38 NI	ESM 38 NI
M 6 f	22.5	12	8	14	Brass MS 58	11	ESMN 6 NI	ESM 6 NI
M 8 f	24	12	10	14	Brass MS 58	11	ESMN 8 NI	ESM 8 NI
M 10x1 f	22.5	13	7	14	Brass MS 58	10	ESMN 101 NI	ESM 101 NI
M 12x1.5 f	25	17	9	14	Brass MS 58	19	ESMN 121 NI	ESM 121 NI
M 14x1.5 f	25	17	9	14	Brass MS 58	17	ESMN 141 NI	ESM 141 NI
G 1/8 f	25	13	9	14	Steel zinc-pl.	11		ESM 18 NIS
G 1/4 f	26	17	10	14	Steel zinc-pl.	17		ESM 14 NIS



Coupling System ESM also available straight through for an additional charge.

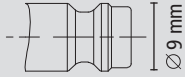
When ordering just add -0 to the regular Type No. i.e ESM 6 TO.

Minimum quantity 50 pc/type!

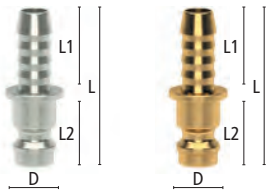
Mini Quick Connect Couplings

Series **ESM** single shut-off

DN5



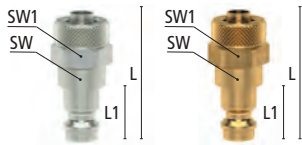
Plug Profile (original size)



Plugs with hose barb

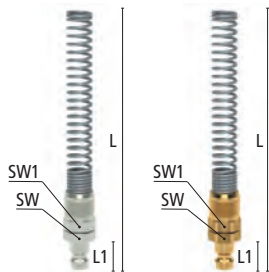
Hose connection	L	D	L1	L2	Material	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	32	9	16.5	14	Brass MS 58	7	ESMN 4 S	ESM 4 S
Hose i.D. 5	32	12	16.5	14	Brass MS 58	8	ESMN 5 S	ESM 5 S
Hose i.D. 6	32	12	16.5	14	Brass MS 58	8	ESMN 6 S	ESM 6 S
Hose i.D. 8	32	12	16.5	14	Brass MS 58	12	ESMN 8 S	ESM 8 S
Hose i.D. 9	38	12	23	14	Brass MS 58	11	ESMN 9 S	ESM 9 S
Hose i.D. 4	32	9	16.5	14	Steel zinc-pl.	6		ESM 4 SS
Hose i.D. 6	32	12	16.5	14	Steel zinc-pl.	7		ESM 6 SS

For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)



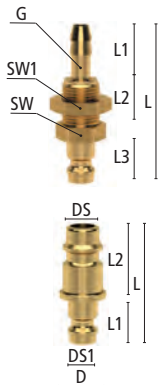
Plugs with squeeze nut

Hose connection	L	SW	L1	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	32	12	14	-	14	ESMN 35 SQ	ESM 35 SQ
Hose 4x6	32	-	14	12	6	ESMN 4 SQ	ESM 4 SQ
Hose 6x8	32	-	14	14	23	ESMN 6 SQ	ESM 6 SQ



Plugs with squeeze nut and spring guards

Hose connection	L	SW	L1	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	90	12	14	11	24	ESMN 35 SQF	ESM 35 SQF
Hose 4x6	110	-	14	12	26	ESMN 4 SQF	ESM 4 SQF
Hose 6x8	120	-	14	14	29	ESMN 6 SQF	ESM 6 SQF



Plugs with bulkhead screwing

Hose connection	L	SW	L1	L2	L3	SW1	G	Weight	Type No.
Hose i.D. 4	50	14	17	14	14	14	M 10x1 m	20	ESM 4 SSV
Hose i.D. 6	50	14	17	14	14	17	M 12x1 m	25	ESM 6 SSV
Hose i.D. 9	50	17	17	14	14	19	M 12x1 m	30	ESM 9 SSV

For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)

NEW!

System-adapter

Connection	L	D	L1	L2	DS	DS1	Weight	Type No.
DN 5 - DN 7.2	36	14	14	20	12	9	16	ESM-ES

Recoil eliminator for all plug types to avoid the "whip-lash-effect" during disconnection by controlled automatic air-relief of the hose line available on request!

Mini Quick Connect Couplings

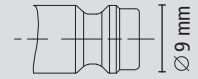
double shut-off Series ESM

DN5

- Mini one-hand quick connect couplings made of brass MS 58 plain or nickel-plated
- Double shut-off to avoid leakage of media during disconnection
- Robust, safe and reliable
- Attention: Couplings can be connected with straight through plugs DN 5, double shut-off plugs cannot be connected with single shut-off couplings DN 5
- Several fields of application, above all for liquid media in construction, control technology switchboard cooling etc.

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 plain or nickel-plated
- Spring, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- O-rings: Buna N - extra charge for EPDM and FKM sealing rings



Plug Profile (original size)

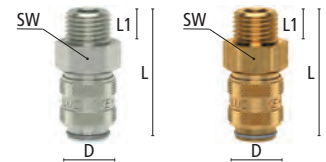
Also in
Stainless Steel
Series ESM
page 289

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	⊗
PN 35 bar	-20°C – +100°C	5	ISO 228 / DIN 13	330 l/min	One-hand	double shut-off	Air a.o.	Europe	10

Couplings with male thread

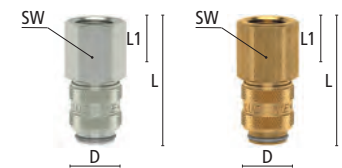
Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 m	37	14	16	7	27	ESMN 18 AAB	ESM 18 AAB
G 1/4 m	38	17	16	9	36	ESMN 14 AAB	ESM 14 AAB
G 3/8 m	38	19	16	9	43	ESMN 38 AAB	ESM 38 AAB
M 10x1 m	37	14	16	7	35	ESMN 101 AAB	ESM 101 AAB
M 12x1.5 m	39	17	16	10	37	ESMN 121 AAB	ESM 121 AAB
M 14x1.5 m	39	17	16	10	37	ESMN 141 AAB	ESM 141 AAB

Male thread sealing with PVC-packing rings type HPD (⊗ page 231)



Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 f	37	14	16	9	32	ESMN 18 IAB	ESM 18 IAB
G 1/4 f	38	17	16	9	38	ESMN 14 IAB	ESM 14 IAB
G 3/8 f	39.5	19	16	10.5	39	ESMN 38 IAB	ESM 38 IAB
M 10x1 f	38	14	16	9	34	ESMN 101 IAB	ESM 101 IAB
M 12x1.5 f	38	17	16	9	39	ESMN 121 IAB	ESM 121 IAB
M 14x1.5 f	38	17	16	9	37	ESMN 141 IAB	ESM 141 IAB



Couplings with hose barb

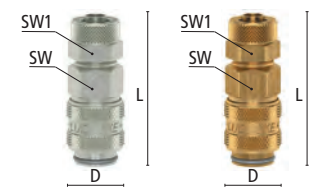
Hose connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	46	14	16	17	27	ESMN 4 TAB	ESM 4 TAB
Hose i.D. 5	46	14	16	17	27	ESMN 5 TAB	ESM 5 TAB
Hose i.D. 6	46	14	16	17	27	ESMN 6 TAB	ESM 6 TAB
Hose i.D. 8	46	14	16	17	29	ESMN 8 TAB	ESM 8 TAB
Hose i.D. 9	46	14	16	17	29	ESMN 9 TAB	ESM 9 TAB

For hose clips type ZOS (⊗ page 414), type HS (⊗ page 415) or crimping ferrules type LPH (⊗ page 418)



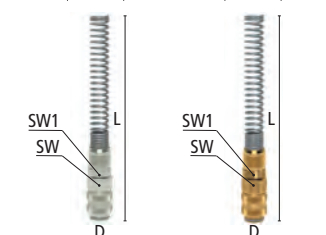
Couplings with squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	43	14	16	12	32	ESMN 4 TQAB	ESM 4 TQAB
Hose 6x8	43	14	16	14	34	ESMN 6 TQAB	ESM 6 TQAB



Couplings with squeeze nut and spring guard

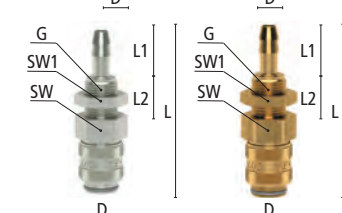
Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	120	14	16	12	39	ESMN 4 TQFAB	ESM 4 TQFAB
Hose 6x8	130	14	16	14	44	ESMN 6 TQFAB	ESM 6 TQFAB



Couplings with bulkhead screwing

Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	60	14	16	17	14	14	M 10x1 m	40	ESMN 4 TSVAB	ESM 4 TSVAB
Hose i.D. 6	60	17	16	17	14	17	M 12x1 m	45	ESMN 6 TSVAB	ESM 6 TSVAB
Hose i.D. 9	60	17	16	17	14	19	M 12x1 m	47	ESMN 9 TSVAB	ESM 9 TSVAB

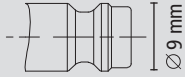
For hose clips type ZOS (⊗ page 414), type HS (⊗ page 415) or crimping ferrules type LPH (⊗ page 418)



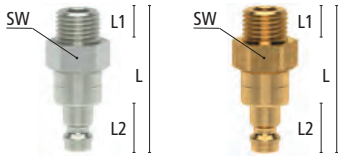
Mini Quick Connect Couplings

Series **ESM** double shut-off

DN5



Plug Profile (original size)

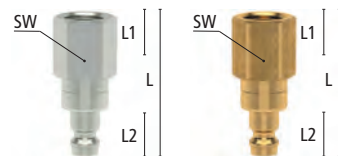


Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
G 1/8 m	40	13	7	14	26	ESMN 18 NAAB	ESM 18 NAAB
G 1/4 m	42	17	9	14	35	ESMN 14 NAAB	ESM 14 NAAB
G 3/8 m	42	19	9	14	42	ESMN 38 NAAB	ESM 38 NAAB
M 12x1.5 m	44	17	10	14	35	ESMN 121 NAAB	ESM 121 NAAB
M 14x1.5 m	44	17	10	14	36	ESMN 141 NAAB	ESM 141 NAAB

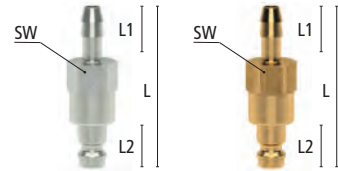
Male thread sealing with PVC-packing rings type HPD (☺ page 231)

Plugs with female thread



Thread connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
G 1/8 f	42	13	9	14	28	ESMN 18 NIAB	ESM 18 NIAB
G 1/4 f	42	17	10	14	38	ESMN 14 NIAB	ESM 14 NIAB
G 3/8 f	43.5	19	10.5	14	38	ESMN 38 NIAB	ESM 38 NIAB
M 12x1.5 f	42	17	9	14	37	ESMN 121 NIAB	ESM 121 NIAB
M 14x1.5 f	42	17	9	14	38	ESMN 141 NIAB	ESM 141 NIAB

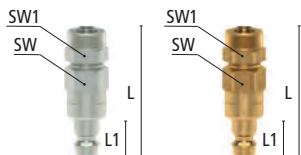
Plugs with hose barb



Hose connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	50	14	17	14	23	ESMN 4 SAB	ESM 4 SAB
Hose i.D. 6	50	14	17	14	23	ESMN 6 SAB	ESM 6 SAB
Hose i.D. 8	50	14	17	14	25	ESMN 8 SAB	ESM 8 SAB
Hose i.D. 9	50	14	17	14	25	ESMN 9 SAB	ESM 9 SAB

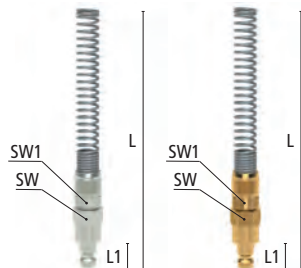
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)

Plugs with squeeze nut



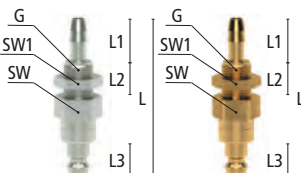
Hose connection	L	SW	L1	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	47	14	14	12	32	ESMN 4 SQAB	ESM 4 SQAB
Hose 6x8	47	14	14	14	32	ESMN 6 SQAB	ESM 6 SQAB

Plugs with squeeze nut and spring guard



Hose connection	L	SW	L1	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	135	14	14	12	40	ESMN 4 SQFAB	ESM 4 SQFAB
Hose 6x8	135	14	14	14	42	ESMN 6 SQFAB	ESM 6 SQFAB

Plugs with bulkhead screwing



Hose connection	L	SW	L1	L2	L3	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	64	14	14	14	17	14	M 10x1 m	45	ESMN 4 SSVAB	ESM 4 SSVAB
Hose i.D. 6	64	14	14	14	17	17	M 12x1 m	45	ESMN 6 SSVAB	ESM 6 SSVAB
Hose i.D. 9	64	14	14	14	17	19	M 12x1 m	45	ESMN 9 SSVAB	ESM 9 SSVAB

For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)

Mini Quick Connect Couplings

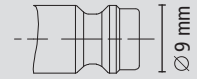
dripless version **Series ESMLA**

- Mini one-hand quick connect couplings made of brass MS 58 plain or nickel-plated
- Robust, safe and reliable
- No leaking, dripless version (liquid film, no drop) during the connecting process
- **Only to be used with shut-off plugs**
- **Various fields of application, mainly to be used with liquid media, motion and control technology, electrical components and CPUs**

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 plain/ nickel-plated
- Spring, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- O-ring: Buna N (EPDM and FKM on request)

DN5

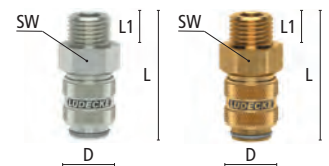


Plug Profile (original size)

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 8 bar	-20°C – +100°C	5	ISO 228	Diagram on request	One-hand	Double shut-off	Liquid media	Europe	10

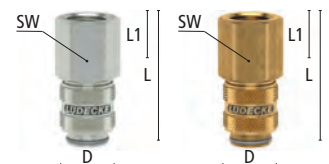
Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 m	37	14	16	7	27	ESMNLA 18 A	ESMLA 18 A
G 1/4 m	38	17	16	9	36	ESMNLA 14 A	ESMLA 14 A
G 3/8 m	38	19	16	9	43	ESMNLA 38 A	ESMLA 38 A



Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 f	37	14	16	9	32	ESMNLA 18 I	ESMLA 18 I
G 1/4 f	38	17	16	9	38	ESMNLA 14 I	ESMLA 14 I
G 3/8 f	39.5	19	16	10.5	39	ESMNLA 38 I	ESMLA 38 I



Couplings with hose barb

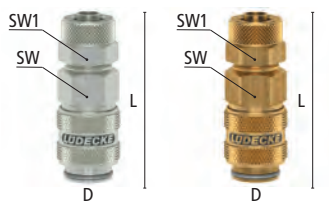
Hose connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	46	14	16	17	27	ESMNLA 4 T	ESMLA 4 T
Hose i.D. 5	46	14	16	17	27	ESMNLA 5 T	ESMLA 5 T
Hose i.D. 6	46	14	16	17	27	ESMNLA 6 T	ESMLA 6 T
Hose i.D. 8	46	14	16	17	29	ESMNLA 8 T	ESMLA 8 T
Hose i.D. 9	46	14	16	17	29	ESMNLA 9 T	ESMLA 9 T



For hose clips type ZOS (☉ page 414), type HS (☉ page 415) or crimping ferrules type LPH (☉ page 418)

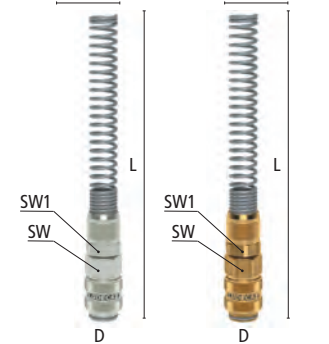
Couplings with squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	43	14	16	12	32	ESMNLA 4 TQ	ESMLA 4 TQ
Hose 6x8	43	14	16	14	34	ESMNLA 6 TQ	ESMLA 6 TQ



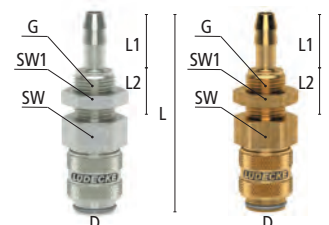
Couplings with squeeze nut and spring guard

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	122	14	16	12	47	ESMNLA 4 TQF	ESMLA 4 TQF
Hose 6x8	130	14	16	14	56	ESMNLA 6 TQF	ESMLA 6 TQF



Couplings with bulkhead screwing

Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No. n. plat. Euro	Type No. plain
Hose i.D. 4	60	14	16	17	14	14	M 10x1 m	40	ESMNLA 4 TSV 41.93	ESMLA 4 TSV
Hose i.D. 6	60	17	16	17	14	17	M 12x1 m	45	ESMNLA 6 TSV 41.93	ESMLA 6 TSV
Hose i.D. 9	60	17	16	17	14	19	M 12x1 m	47	ESMNLA 9 TSV 43.91	ESMLA 9 TSV



For hose clips type ZOS (☉ page 414), type HS (☉ page 415) or crimping ferrules type LPH (☉ page 418)

Quick Connect Couplings

Series ES single shut-off

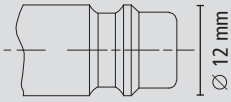
The original

DN 7.2

- Universal one-hand quick connect couplings made of brass MS 58 plain or nickel-plated
- Robust, safe and reliable
- Suitable for vacuum despite of lowest coupling force towards all compatible forms
- Sleeve design protects the coupling body from dirt
- For compressed air lines in industry, handcrafts, hobby as well as for water and other media

Materials

- Body, sleeve, valve body, valve: Brass MS 58 plain/ nickel-plated
- Spring, retaining ring: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- O-rings: Buna N (EPDM and FKM on request)
- Plug: Brass MS 58 plain/ nickel-plated or steel zinc-plated and yellow passivated (free of chrome VI)

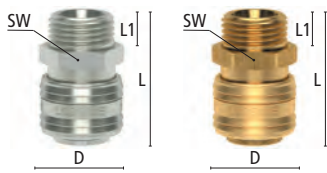


Plug Profile (original size)

Also in
Stainless Steel
Series ESE
page 294

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	☎
PN 35 bar	-20°C – +100°C	7.2	ISO 228/DIN 2999/DIN 13	1000 l/min	One-hand	Single shut-off	Air a.o.	Worldwide	10

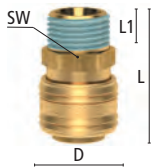
Couplings with male thread



Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 m	38	22	27	7	70	ESN 18 A	ES 18 A
G 1/4 m	40	22	27	9	73	ESN 14 A	ES 14 A
G 3/8 m	41	22	27	9	76	ESN 38 A	ES 38 A
G 1/2 m	41	24	27	10	87	ESN 12 A	ES 12 A
M 14x1.5 m	40	22	27	9	75	ESN 1415 A	ES 1415 A
M 16x1.5 m	40	22	27	9	75	ESN 1615 A	ES 1615 A
M 18x1.5 m	40	22	27	10	78	ESN 1815 A	ES 1815 A

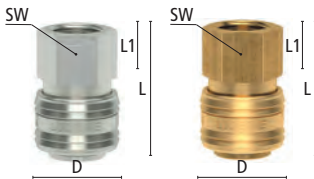
Male thread sealing with PVC-packing rings type HPD (☎ page 231)

Couplings with cylindrical male thread (tapered), Loctite-coated



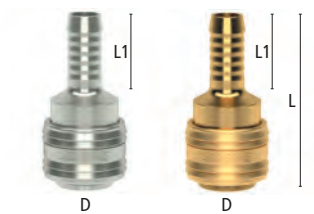
Thread connection	L	SW	D	L1	Weight	Type No. plain
R 1/4 m	42	22	27	11	76	ES 14 AB
R 3/8 m	44	22	27	12	79	ES 38 AB
G 1/2 m	45	22	27	15	96	ES 12 AB

Couplings with female thread



Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 f	39	22	27	9	90	ESN 18 I	ES 18 I
G 1/4 f	41	22	27	10.5	92	ESN 14 I	ES 14 I
G 3/8 f	41	22	27	10.5	85	ESN 38 I	ES 38 I
G 1/2 f	42.5	24	27	12	87	ESN 12 I	ES 12 I
G 3/4 f	43.5	32	27	13	110	ESN 34 I	ES 34 I
M 14x1.5 f	41.5	22	27	11	90	ESN 1415 I	ES 1415 I
M 16x1.5 f	41.5	22	27	11	84	ESN 1615 I	ES 1615 I
M 18x1.5 f	41.5	22	27	12	80	ESN 1815 I	ES 1815 I

Couplings with hose barb



Hose connection	L	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 6	55	27	25	64	ESN 6 T	ES 6 T
Hose i.D. 8	55	27	25	67	ESN 8 T	ES 8 T
Hose i.D. 9	55	27	25	68	ESN 9 T	ES 9 T
Hose i.D. 10	58	27	28	70		ES 10 TH*
Hose i.D. 10	55	27	25	70	ESN 10 T	ES 10 T
Hose i.D. 13	58	27	28	75		ES 13 TH*
Hose i.D. 13	55	27	25	75	ESN 13 T	ES 13 T

For hose clips type ZOS (☎ page 414), type HS (☎ page 415) or crimping ferrules type LPH (☎ page 418)

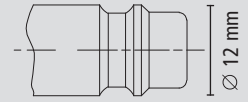
*ES 10 TH and ES 13 TH for the use of various quick-fit hoses (e.g. Parker Push-Lock, Gates Lock-on)

The original

Quick Connect Couplings

single shut-off **Series ES**

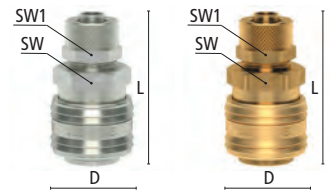
DN7.2



Plug Profile (original size)

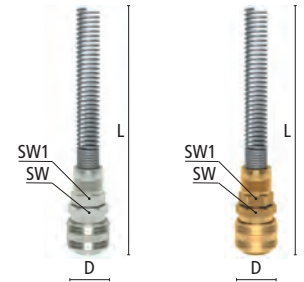
Couplings with squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	44	22	27	12	73	ESN 4 TQ	ES 4 TQ
Hose 6x8	44	22	27	14	78	ESN 6 TQ	ES 6 TQ
Hose 8x10	48	22	27	17	83	ESN 8 TQ	ES 8 TQ
Hose 9x12	48	22	27	17	85	ESN 9 TQ	ES 9 TQ



Couplings with squeeze nut and spring guard

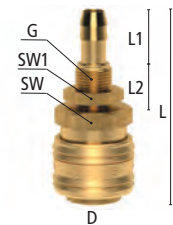
Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	125	22	27	12	85	ESN 4 TQF	ES 4 TQF
Hose 5x8	130	22	27	14	88		ES 58 TQF
Hose 6x8	130	22	27	14	90	ESN 6 TQF	ES 6 TQF
Hose 6.5x10	130	22	27	17	95		ES 6510 TQF
Hose 8x10	136	22	27	19	120	ESN 8 TQF	ES 8 TQF
Hose 8x12	140	22	27	19	130		ES 812 TQF
Hose 9x12	145	22	27	19	141	ESN 9 TQF	ES 9 TQF



Bulkhead couplings

Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No.
Hose i.D. 6	62	22	27	17	14	17	M 12x1 m	87	ES 6 TSV
Hose i.D. 8	62	22	27	17	14	17	M 12x1 m	88	ES 8 TSV
Hose i.D. 10	70	22	27	25	14	19	M 14x1 m	90	ES 10 TSV

For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)



NEW!

Couplings with plug DN 5-ESM system adapter

Connection	L	D	L1	DS	Weight	Type No.
Plug ESM DN 5	44	27	14	9	69	ESK-ESMS



Couplings with angle hose barb 45°

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 6	44	27	27	100	ES 6 T-45
Hose i.D. 9	44	27	27	100	ES 9 T-45
Hose i.D. 13	44	27	30	110	ES 13 T-45

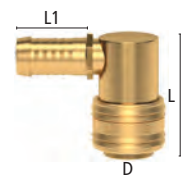
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)



Couplings with angle hose barb 90°

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 6	44	27	26	105	ES 6 T-90
Hose i.D. 9	44	27	26	105	ES 9 T-90
Hose i.D. 13	44	27	28	115	ES 13 T-90

For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)



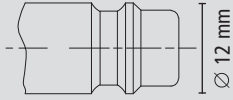
Angle-Thread Couplings available on request.

Quick Connect Couplings

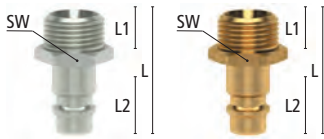
Series ES single shut-off

The original

DN 7.2



Plug Profile (original size)

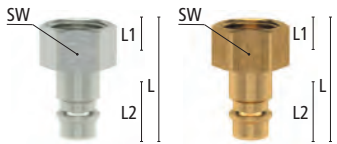


Plugs with male thread

Thread connection	L	SW	L1	L2	Material	Weight	Type No. n. plated	Type No. plain
G 1/8 m	31	13	7	20	Brass MS 58	17	ESN 18 NA	ES 18 NA
G 1/4 m	33	17	9	20	Brass MS 58	21	ESN 14 NA	ES 14 NA
G 3/8 m	33	19	9	20	Brass MS 58	26	ESN 38 NA	ES 38 NA
G 1/2 m	35	24	10	20	Brass MS 58	41	ESN 12 NA	ES 12 NA
M 14x1.5 m	33	17	9	20	Brass MS 58	26		ES 1415 NA
M 16x1.5 m	33	19	9	20	Brass MS 58	32		ES 1615 NA
M 18x1.5 m	34	22	10	20	Brass MS 58	36		ES 1815 NA
G 1/8 m	31	13	7	20	Steel zinc-pl.	15		ES 18 NAS
G 1/4 m	33	17	9	20	Steel zinc-pl.	19		ES 14 NAS
G 3/8 m	33	19	9	20	Steel zinc-pl.	24		ES 38 NAS
G 1/2 m	36	24	10	20	Steel zinc-pl.	39		ES 12 NAS

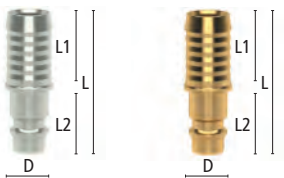
Male thread sealing with PVC-packing rings type HPD (© page 231)

Plugs with female thread



Thread connection	L	SW	L1	L2	Material	Weight	Type No. n. plated	Type No. plain
G 1/8 f	31	13	9	20	Brass MS 58	16	ESN 18 NI	ES 18 NI
G 1/4 f	33	17	10	20	Brass MS 58	24	ESN 14 NI	ES 14 NI
G 3/8 f	33	19	10	20	Brass MS 58	23	ESN 38 NI	ES 38 NI
G 1/2 f	35	24	12	20	Brass MS 58	38	ESN 12 NI	ES 12 NI
M 14x1.5 f	33	17	11	20	Brass MS 58	25		ES 1415 NI
M 16x1.5 f	33	19	11	20	Brass MS 58	36		ES 1615 NI
M 18x1.5 f	35	22	12	20	Brass MS 58	43		ES 1815 NI
G 1/8 f	31	13	9	20	Steel zinc-pl.	15		ES 18 NIS
G 1/4 f	33	17	10	20	Steel zinc-pl.	22		ES 14 NIS
G 3/8 f	33	19	10	20	Steel zinc-pl.	21		ES 38 NIS
G 1/2 f	35	24	12	20	Steel zinc-pl.	35		ES 12 NIS

Plugs with hose barb



Hose connection	L	D	L1	L2	Material	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	44	12	22.5	20	Brass MS 58	10	ESN 4 S	ES 4 S
Hose i.D. 6	44	12	24	20	Brass MS 58	14	ESN 6 S	ES 6 S
Hose i.D. 8	44	12	24	20	Brass MS 58	18	ESN 8 S	ES 8 S
Hose i.D. 9	44	12	24	20	Brass MS 58	17	ESN 9 S	ES 9 S
Hose i.D. 10	47	12	26	20	Brass MS 58	21		ES 10 SH*
Hose i.D. 10	44	12	23	20	Brass MS 58	19	ESN 10 S	ES 10 S
Hose i.D. 13	47	15	26	20	Brass MS 58	26		ES 13 SH*
Hose i.D. 13	44	15	23	20	Brass MS 58	24	ESN 13 S	ES 13 S
Hose i.D. 6	44	12	24	20	Steel zinc-pl.	13		ES 6 SS
Hose i.D. 8	44	12	24	20	Steel zinc-pl.	18		ES 8 SS
Hose i.D. 9	44	12	24	20	Steel zinc-pl.	16		ES 9 SS
Hose i.D. 13	44	15	23	20	Steel zinc-pl.	26		ES 13 SS

For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)

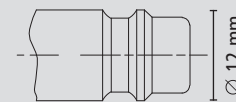
*ES 10 TH and ES 13 TH for the use of various quick-fit hoses (e.g. Parker Push-Lock, Gates Lock-on)

The original

Quick Connect Couplings

single shut-off **Series ES**

DN7.2



Plug Profile (original size)

Plugs with squeeze nut

Hose connection	L	SW	L1	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	34	12	20	-	18	ESN 4 SQ	ES 4 SQ
Hose 6x8	34	14	20	-	19	ESN 6 SQ	ES 6 SQ
Hose 8x10	43	17	20	17	38	ESN 8 SQ	ES 8 SQ
Hose 9x12	43	17	20	17	36	ESN 9 SQ	ES 9 SQ

Plugs with squeeze nut and spring guard

Hose connection	L	SW	L1	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	115	-	20	12	30	ESN 4 SQF	ES 4 SQF
Hose 5x8	115	17	20	14	34		ES 58 SQF
Hose 6x8	115	-	20	14	37	ESN 6 SQF	ES 6 SQF
Hose 6.5x10	115	17	20	17	48		ES 6510 SQF
Hose 8x10	132	17	20	19	83	ESN 8 SQF	ES 8 SQF
Hose 8x12	132	17	20	19	84		ES 812 SQF
Hose 9x12	132	17	20	19	86	ESN 9 SQF	ES 9 SQF

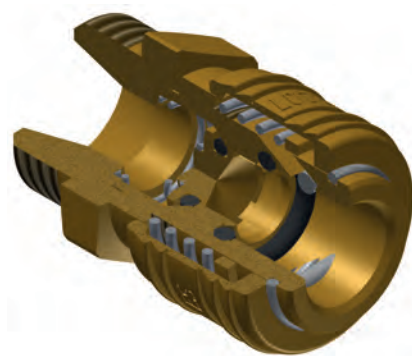
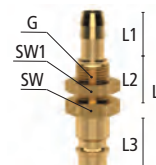
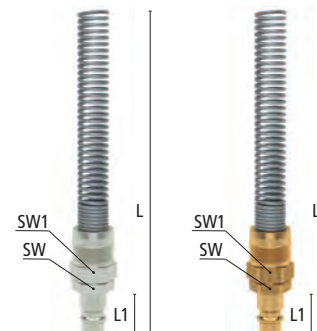
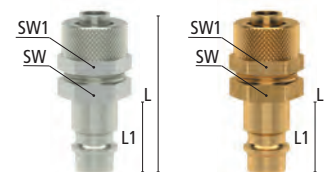
Bulkhead plugs

Hose connection	L	SW	D	L1	L2	L3	SW1	G	Weight	Type No.
Hose i.D. 6	56	14	17	17	14	20	17	M 12x1 m	30	ES 6 SSV
Hose i.D. 8	56	17	17	17	14	20	17	M 12x1 m	35	ES 8 SSV
Hose i.D. 10	56	17	17	17	14	20	19	M 14x1 m	42	ES 10 SSV

For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)

System-Adapters

Connection	L	D	L1	L2	DS	DS1	Weight	Type No.
DN 5 - DN 7.2	36	14	20	14	12	9	16	ESM-ES



Recoil eliminator for all plug types to avoid the "whip-lash-effect" during disconnection

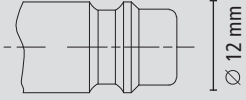
by controlled automatic air-relief of the hose line available on request!

The original

Quick Connect Couplings

Series ES straight-through

DN7.2



Plug Profile (original size)

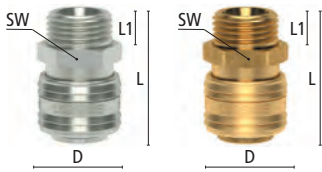
- Universal one-hand quick connect couplings in brass MS 58 plain or nickel-plated
- Robust, safe and reliable
- Sleeve shape to avoid contamination of the coupling mechanics
- Straight-through for optimized flow capacity, particularly for the application with water or other liquids
- To connect with plug DN 7.2
- To supply compressed air for industries, handcrafts and hobbies as well as water and other media

Materials

- Body, sleeve: Brass MS 58 plain/ nickel-plated
- Spring, retaining ring: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- O-rings: Buna N (EPDM and FKM on request)
- Plug: Brass MS 58 plain or nickel-plated/ steel zinc-plated and yellow passivated (free of chrome VI)

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.2	ISO 228/ DIN 13	630 l/min	One-hand	Straight-through	Air a.o.	Worldwide	10

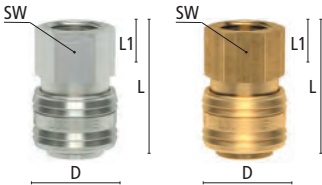
Couplings with male thread



Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/4 m	40	22	27	9	73	ESN 14 AO	ES 14 AO
G 3/8 m	41	22	27	9	76	ESN 38 AO	ES 38 AO
G 1/2 m	41	24	27	10	87	ESN 12 AO	ES 12 AO

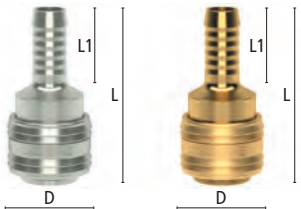
Male thread sealing with PVC-packing rings type HPD (© page 231)

Couplings with female thread



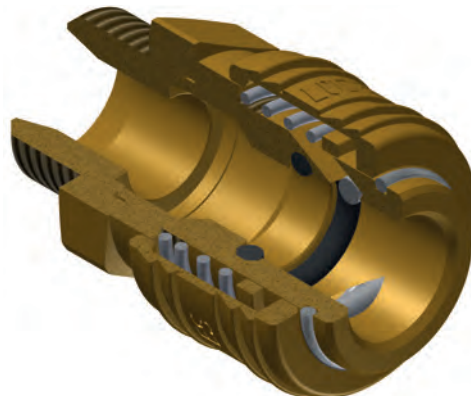
Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/4 f	41	22	27	10.5	92	ESN 14 IO	ES 14 IO
G 3/8 f	41	22	27	10.5	85	ESN 38 IO	ES 38 IO
G 1/2 f	42.5	24	27	12	87	ESN 12 IO	ES 12 IO

Couplings with hose barb



Hose connection	L	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 6	55	27	25	64	ESN 6 TO	ES 6 TO
Hose i.D. 9	55	27	25	68	ESN 9 TO	ES 9 TO
Hose i.D. 13	55	27	25	75	ESN 13 TO	ES 13 TO

For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)



The original

Quick Connect Couplings

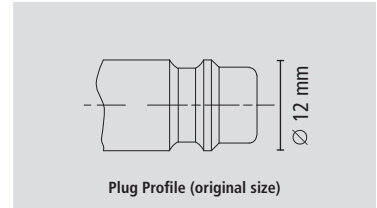
double shut-off Series ES

DN7.2

- Universal one-hand-quick connect couplings made of brass MS 58 plain
- Double shut-off to avoid the escape of media when disconnecting
- Robust, safe and reliable
- Suitable to maintain the TA-Luft on industrial production plants
- Attention: Couplings can be connected with straight-through plugs DN 7.2, valved plugs cannot be connected with single shut-off couplings DN 7.2
- Several fields of application, above all for liquid media in construction, control technology, switchboard cooling etc.

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 plain
- O-rings: Buna N - extra charge for EPDM and FKM sealing rings
- Springs, retaining ring: Stainless steel 1.4310 • Pins: Stainless steel 1.4305



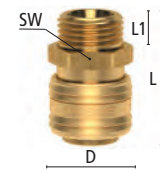
Also in
Stainless Steel
Series ESE
page 294

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.2	ISO 228	2150 l/min	One-hand	Double shut-off	Air a.o.	Worldwide	10

Couplings with male thread

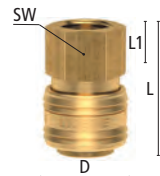
Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 m	40	22	27	9	73	ES 14 AAB
G 3/8 m	41	22	27	9	76	ES 38 AAB
G 1/2 m	41	24	27	10	87	ES 12 AAB
M 16x1.5 m	40	22	27	9	78	ES 1615 AAB

Male thread sealing with PVC-packing rings type HPD (© page 231)



Couplings with female thread

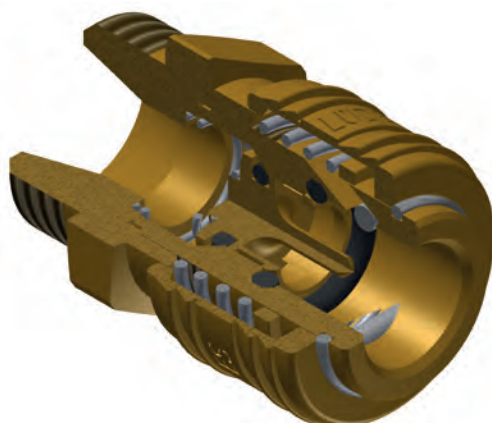
Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	41	22	27	10.5	92	ES 14 IAB
G 3/8 f	41	22	27	10.5	85	ES 38 IAB
G 1/2 f	42.5	24	27	12	87	ES 12 IAB
M 16x1.5 f	41.5	22	27	11	85	ES 1615 IAB



Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 6	55	27	25	64	ES 6 TAB
Hose i.D. 9	55	27	25	68	ES 9 TAB
Hose i.D. 13	55	27	25	75	ES 13 TAB

For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)

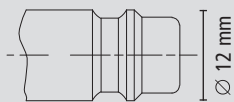


Quick Connect Couplings

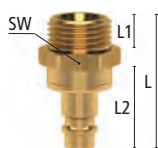
The original

Series ES double shut-off

DN 7.2



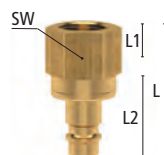
Plug Profile (original size)



Plugs with male thread

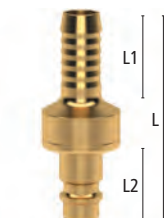
Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 m	43	22	9	20	45	ES 14 NAAB
G 3/8 m	44	22	10	20	48	ES 38 NAAB
G 1/2 m	44	24	10	20	60	ES 12 NAAB
M 16x1.5 m	43	22	9	20	46	ES 1615 NAAB

Male thread sealing with PVC-packing rings type HPD (© page 231)



Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	44	22	10.5	20	64	ES 14 NIAB
G 3/8 f	44	22	10.5	20	57	ES 38 NIAB
G 1/2 f	44.5	24	12	20	62	ES 12 NIAB
M 16x1.5 f	43.5	22	11	20	60	ES 1615 NIAB

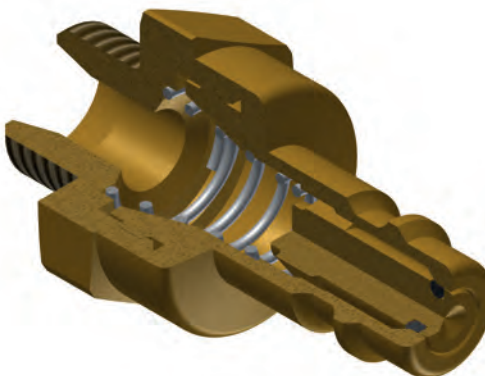


Plugs with hose barb

Hose connection	L	L1	L2	Weight	Type No.
Hose i.D. 6	58	25	20	34	ES 6 SAB
Hose i.D. 9	58	25	20	38	ES 9 SAB
Hose i.D. 13	58	25	20	44	ES 13 SAB

For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)

Further dimensions on request!







Manifolds for Quick Connect Couplings

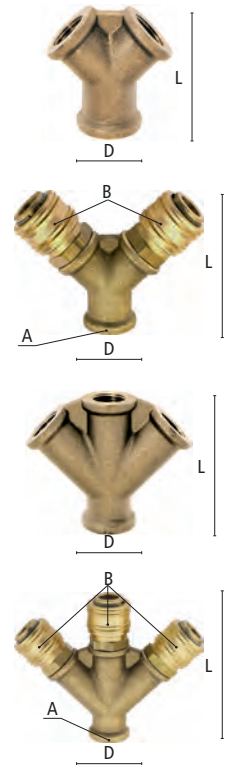
made of Brass MS 58

- Manifolds for quick connect couplings made of brass
- Available as 3-way manifold/ 4-way manifold with female thread or 3-way manifold/ 4-way manifold with quick connect couplings DN 7.2
- [For the distribution of compressed air on central sampling points](#)

Materials

- Manifold and quick connect coupling: Brass MS 58 plain

Max. Working Pressure		Temperature				Media	
PN 35 bar		-20°C – +100°C				Air a.o.	
3-Way manifolds with female thread							
Thread connection	L	D	Passage		Weight	Type No.	
3 x G 3/8 f	46	26	15	5	93	DWS 38	
3 x G 1/2 f	50	27.5	19	5	100	DWS 12	
3-way manifolds with one-hand quick connect couplings DN 7.2 assembled							
Inlet (A)	Outlet (B)	L	D	Passage		Weight	Type No.
G 3/8 f	2 x ES 38 A	67	26	7.2	1	241	DWS 38 ES
G 1/2 f	2 x ES 12 A	69	27.5	7.2	1	275	DWS 12 ES
4-way manifolds with female thread							
Thread connection	L	D	Passage		Weight	Type No.	
4 x G 3/8 f	61	26	15	5	191	VWS 38	
4 x G 1/2 f	59.5	27.5	19	5	170	VWS 12	
4-way manifolds with one-hand quick connect couplings DN 7.2 assembled							
Inlet (A)	Outlet (B)	L	D	Passage		Weight	Type No.
G 3/8 f	3 x ES 38 A	92	26	7.2	1	417	VWS 38 ES
G 1/2 f	3 x ES 12 A	91	27.5	7.2	1	435	VWS 12 ES




Manifold for Quick Connect Couplings

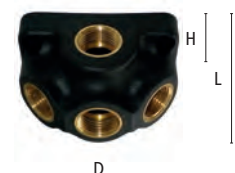
made of Plastic

- Manifold made of plastic with brass inserts
- 4-way manifold with female thread
- [For compressed air on central distribution point](#)
- For wall mounting 4 x Ø 5.5m - 70x44

Materials

- Housing: Polyamide 6 with 30% fiberglass
- Inserts: Brass MS 58 plain

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Media	
PN 16 bar	-10°C – +50°C	15	ISO 228	4000l/min	compressed air/neutral, atoxic, non-flammable gases	1
4-way manifold with female thread						
Thread connection	L	D	H	Weight	Type No.	
4 x G 1/2 f	52	85	60	230	WV 12	





OptiFlow-Line

Energy Efficient Quick Connect Couplings



Compressed air - an expensive media?

Despite numerous advantages, compressed air has the reputation of being a cost intensive energy user – in many cases a misstatement. By using the right components an energy efficient operation is possible.

Following factors reduce the energy performance:

- Standard valves with large surface area
- Too small dimensioned hose or tubing
- Too small dimensioned connections
- Insufficient capacity in networks or ring main systems
- High humidity

Effect of such factors:

- High pressure drop
- High energy consumption from compressor
- Reduced productivity
- Damages on system/tools

The products from the **LUDECKE** OptiFlow-Line offer energy-optimized coupling systems, which achieve higher flow rates and significantly reduce the energy consumption. This leads to a decrease of energy costs as well as an increase of the durability and the lifetime of the machines and tools.

By continuous process improvements in the production we ensure that the quick connect couplings are consequently redefined and improved in their efficiency. Like this we can guarantee sustainable and efficient working.*

LUDECKE OptiFlow-Line

- Streamlined valve
- Extremely high flow rates
- Low pressure drop
- High durability
- Great operational safety and best sealing characteristics

**Opti
Flow**
by **LUDECKE**

*Find out more about the **LUDECKE** sustainability strategies in our Green Company Report (page 10)

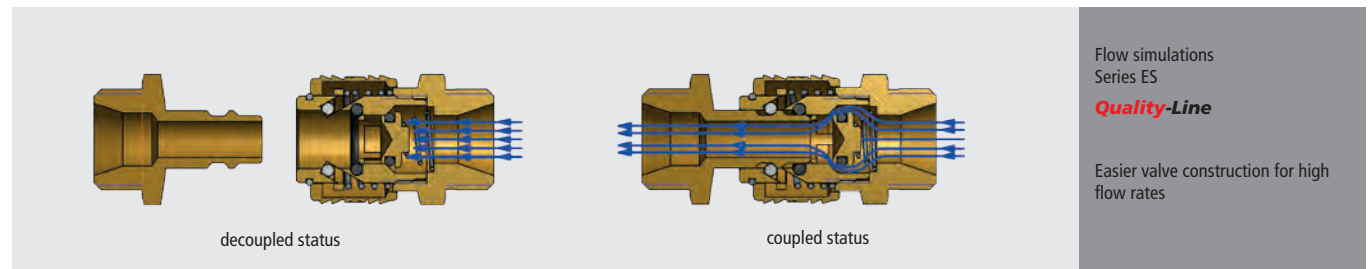
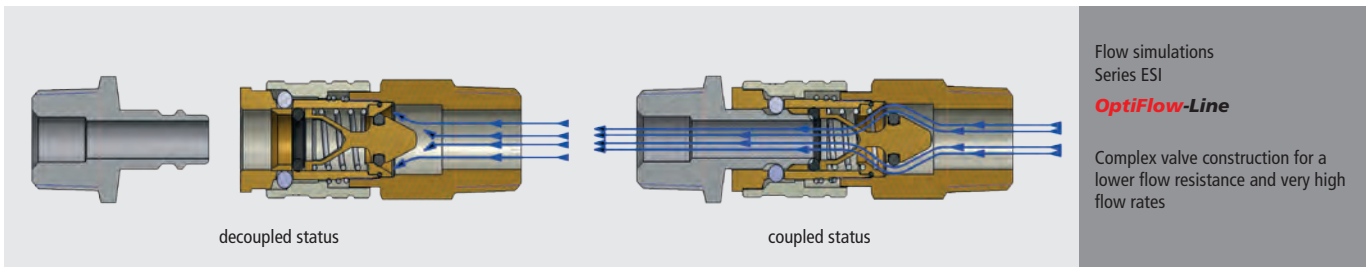
Different Sizes and Versions

The products of the **LUDECKE OptiFlow-Line** are available in different sizes, connection and valve types as well as in different materials.

Safety Breathing Air Couplings	Industrial Quick Connect Couplings	Safety Industrial Quick Connect Couplings	Safety Self-Venting Couplings	Industrial Quick Connect Couplings	Industrial Quick Connect Couplings
Series: ESI1A DN 7.4 ESI2A DN 7.4	Series: ESI DN 7.8	Series: ESIK DN 7.8	Series: ESIS DN 7.8	Series: ESIG DN 10	Series: ESG DN 19
					

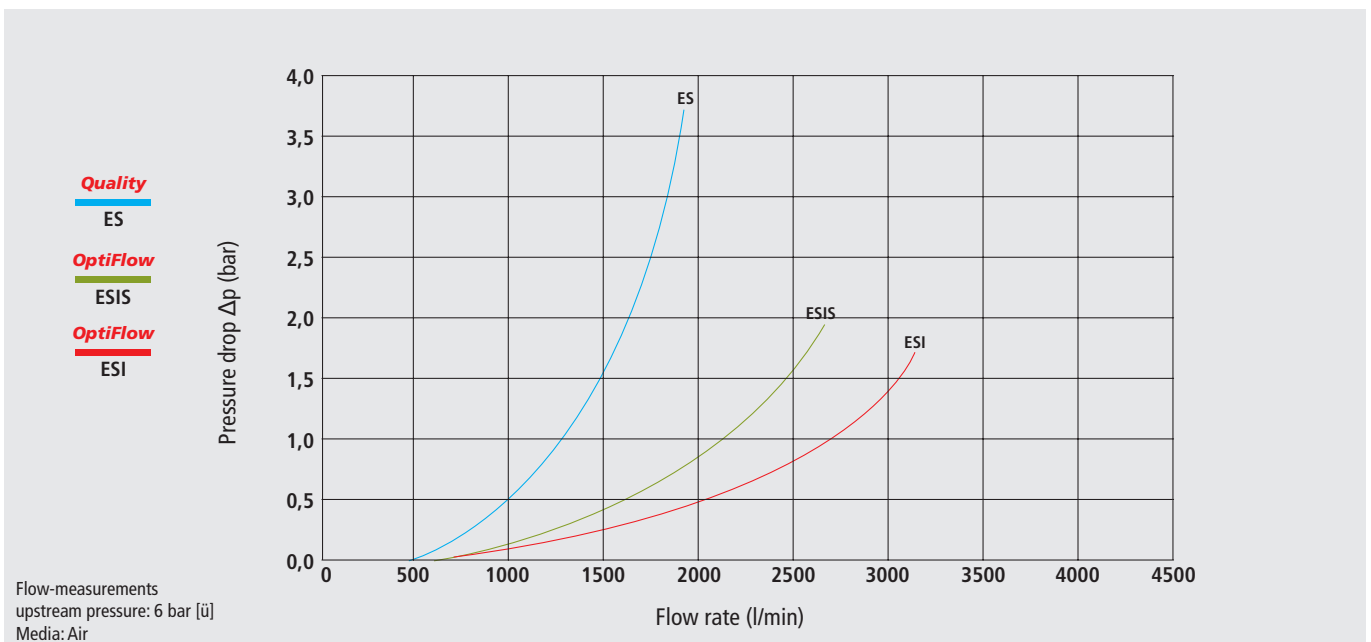
Flow Simulation Comparison

The products of the **LUDECKE OptiFlow-Line** have a valve with optimized geometry for higher flow rates.



Flow Chart

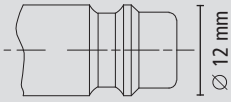
The flow rates of the **LUDECKE OptiFlow-Line** (in to standard couplings) are summarized in the following chart.



Industrial Quick Connect Couplings

Series ESI single shut-off

DN 7.8



Plug Profile (original size)

Also in
Stainless Steel
Series ESIE
page 298

- Collar version: protected valve housing
- High quality, extreme robust one-hand quick connect couplings with high class sealing
- High flow rate with low pressure drop due to streamlined valve
- Straight-through or double shut-off on request
- To supply compressed air for industry or handcrafts, especially recommended directly at the tool
- Also interchangeable with plug profile ES DN 7.2, ESPN DN 7.4, a. o.

Materials

- Body, valve body, valve: Brass MS 58 nickel-plated
- Sleeve, plug: Hardened steel nickel-plated
- O-rings: Buna N (other sealing materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.8	ISO 228/DIN 2999	2000 l/min	One-hand	Single shut-off	Air a.o.	Europe	Coupl. 5 / Plug10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	60	19	24	11	98	ESI 14 A
R 3/8 m	61	19	24	12	97	ESI 38 A
R 1/2 m	64	22	24	15	114	ESI 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	56	19	24	10	116	ESI 14 I
G 3/8 f	56	19	24	10	107	ESI 38 I
G 1/2 f	58	24	24	12	125	ESI 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	73	19	24	25	95	ESI 6 T
Hose i.D. 8	73	19	24	25	97	ESI 8 T
Hose i.D. 9	73	19	24	25	98	ESI 9 T
Hose i.D. 10	73	19	24	25	97	ESI 10 T
Hose i.D. 13	73	19	24	25	101	ESI 13 T

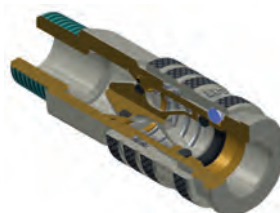
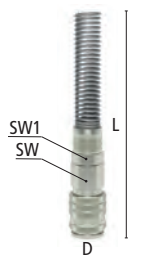
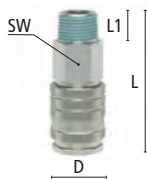
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)

NEW! Couplings with squeeze nut

Hose connection	L	SW	D	L1	Weight	Type No.
Hose 5x8	64	19	24	14	110	ESI 58 TQ
Hose 6x8	64	19	24	14	110	ESI 6 TQ
Hose 6.5x8	69	19	24	17	126	ESI 6510 TQ
Hose 8x10	69	19	24	19	134	ESI 8 TQ
Hose 8x12	68	19	24	19	129	ESI 812 TQ
Hose 9x13	70	19	24	19	130	ESI 913 TQ

NEW! Couplings with squeeze nut and spring guard

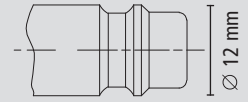
Hose connection	L	SW	D	L1	Weight	Type No.
Hose 5x8	150	19	24	14	124	ESI 58 TQF
Hose 6x8	150	19	24	14	123	ESI 6 TQF
Hose 6.5x8	170	19	24	17	152	ESI 6510 TQF
Hose 8x10	170	19	24	19	162	ESI 8 TQF
Hose 8x12	144	19	24	19	156	ESI 812 TQF
Hose 9x13	170	19	24	19	162	ESI 913 TQF



Industrial Quick Connect Couplings

single shut-off Series ESI

DN7.8



Plug Profile (original size)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m	33	13	9	20	14	ESI 18 NARS
G 1/4 m	35	14	11	20	18	ESI 14 NARS
G 3/8 m	36	17	12	20	23	ESI 38 NARS
G 1/2 m	40	22	15	20	47	ESI 12 NARS



Plugs with parallel male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m	33	13	9	20	14	ESI 18 NAS
G 1/4 m	35	14	11	20	18	ESI 14 NAS
G 3/8 m	36	17	12	20	23	ESI 38 NAS
G 1/2 m	40	22	15	20	47	ESI 12 NAS



Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	32	13	9	20	16	ESI 18 NIS
G 1/4 f	33	17	10	20	24	ESI 14 NIS
G 3/8 f	33	19	10	20	25	ESI 38 NIS
G 1/2 f	35	24	12	20	40	ESI 12 NIS



Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	44	12	24	20	13	ESI 6 SS
Hose i.D. 8	44	12	24	20	18	ESI 8 SS
Hose i.D. 9	44	12	24	20	16	ESI 9 SS
Hose i.D. 10	44	12	24	20	18	ESI 10 SS
Hose i.D. 13	44	15	23	20	26	ESI 13 SS

For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)



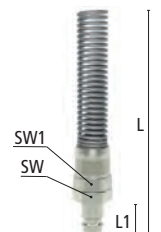
NEW! Plugs with squeeze nut

Hose connection	L	SW	L1	SW1	Weight	Type No.
Hose 5x8	40	14	20	14	29	ESI 58 SQ
Hose 6x8	40	14	20	14	29	ESI 6 SQ
Hose 6.5x10	44	17	20	17	45	ESI 6510 SQ
Hose 8x10	44	19	20	19	55	ESI 8 SQ
Hose 8x12	46	19	20	19	57	ESI 812 SQ
Hose 9x13	44	19	20	19	50	ESI 913 SQ



NEW! Plugs with squeeze nut and spring guard

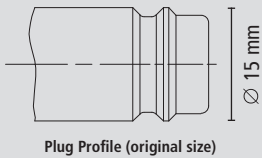
Hose connection	L	SW	L1	SW1	Weight	Type No.
Hose 5x8	126	14	20	14	42	ESI 58 SQF
Hose 6x8	127	14	20	14	42	ESI 6 SQF
Hose 6.5x8	145	17	20	17	71	ESI 6510 SQF
Hose 8x10	121	19	20	19	79	ESI 8 SQF
Hose 8x12	123	19	20	19	84	ESI 812 SQF
Hose 9x13	146	19	20	19	83	ESI 913 SQF



Industrial Quick Connect Couplings

Series ESIG single shut-off

DN 10

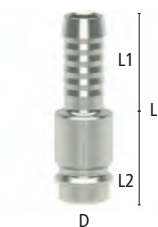
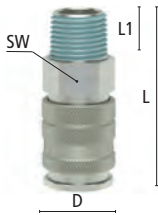


- High-quality, extreme robust one-hand quick connect couplings with superior seal characteristics
- High flow rate with low pressure drop due to streamlined valve
- Special versions, i.e. straight-through couplings on request
- For the supply of compressed air in industry and handcraft at extraction points with extremely high need of compressed air for high-performance tools as well as in engineering and construction

Materials

- Body, valve body, valve: Brass MS 58 nickel-plated
- Sleeve, plug: Steel, hardened and nickel-plated
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: Buna N (other materials on request)

Also in
Stainless Steel
Series ESIGE
page 300



Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	10	ISO 228/DIN 2999	2150 l/min	One-hand	single shut-off	Air a.o.	Europe	Coupl. 5 / Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	63	24	27	12	135	ESIG 14 A
R 3/8 m	63	24	27	12	143	ESIG 38 A
R 1/2 m	65	24	27	17	147	ESIG 12 A
R 3/4 m	65	27	27	17	155	ESIG 34 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	56	24	27	11	136	ESIG 14 I
G 3/8 f	56	24	27	11	145	ESIG 38 I
G 1/2 f	56	24	27	12	135	ESIG 12 I
G 3/4 f	60	32	27	16	200	ESIG 34 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 9	76	24	27	25	150	ESIG 9 T
Hose i.D. 10	76	24	27	25	150	ESIG 10 T
Hose i.D. 13	76	24	27	25	152	ESIG 13 T
Hose i.D. 16	76	24	27	25	152	ESIG 16 T
Hose i.D. 19	76	24	27	25	160	ESIG 19 T

For hose clips type ZOS (☉ page 414), type HS (☉ page 415) or crimping ferrules type LPH (☉ page 418)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	40	17	12	21	30	ESIG 14 NAS
R 3/8 m	40	17	12	21	32	ESIG 38 NAS
R 1/2 m	45	22	17	21	35	ESIG 12 NAS
R 3/4 m	48	27	19	21	37	ESIG 34 NAS

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	34	17	10	21	36	ESIG 14 NIS
G 3/8 f	34	19	11	21	42	ESIG 38 NIS
G 1/2 f	37	24	12	21	41	ESIG 12 NIS
G 3/4 f	42	32	16	21	43	ESIG 34 NIS

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 9	48	15	25	21	24	ESIG 9 SS
Hose i.D. 10	48	15	25	21	24	ESIG 10 SS
Hose i.D. 13	48	15	25	21	28	ESIG 13 SS
Hose i.D. 16	48	20	25	21	30	ESIG 16 SS
Hose i.D. 19	48	24	25	21	35	ESIG 19 SS

For hose clips type ZOS (☉ page 414), type HS (☉ page 415) or crimping ferrules type LPH (☉ page 418)

Industrial Quick Connect Couplings

double shut-off Series ESIG

- High-quality, extreme robust one-hand quick connect couplings with superior seal characteristics
- Double shut-off to avoid the escape of media when disconnecting
- Attention: Couplings can be connected with straight-through plugs DN 10, but valved plugs cannot be connected with standard couplings DN 10
- Several fields of application, above all for liquid media in construction, control technology, switchboard cooling, etc.
- Suitable to maintain the TA-Luft on industrial production plants

Materials

- Body, valve body, valve, plug: Brass MS 58 nickel-plated
- Sleeve: Steel hardened and nickel-plated
- Springs: Stainless steel 1.4310 • Balls: Stainless steel 1.4034
- O-Rings: Buna N (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	10	ISO 228/DIN 2999	1070 l/min	One-hand	Double shut-off	Air a.o.	Europe	Coupl. 5 / Plug10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 3/8 m	63	24	27	12	143	ESIG 38 AAB
R 1/2 m	65	24	27	17	147	ESIG 12 AAB
R 3/4 m	65	27	27	17	155	ESIG 34 AAB

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 3/8 f	56	24	27	11	145	ESIG 38 IAB
G 1/2 f	56	24	27	12	135	ESIG 12 IAB
G 3/4 f	60	32	27	16	200	ESIG 34 IAB

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 9	76	24	27	25	150	ESIG 9 TAB
Hose i.D. 10	76	24	27	25	150	ESIG 10 TAB
Hose i.D. 13	76	24	27	25	152	ESIG 13 TAB
Hose i.D. 16	76	24	27	25	152	ESIG 16 TAB
Hose i.D. 19	76	24	27	25	160	ESIG 19 TAB

For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 3/8 m	61	24	12	21	105	ESIG 38 NAAB
R 1/2 m	63	24	17	21	108	ESIG 12 NAAB
R 3/4 m	63	27	17	21	115	ESIG 34 NAAB

Plugs with parallel female thread

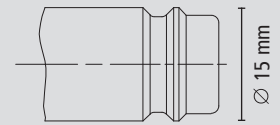
Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 f	55	24	11	21	120	ESIG 38 NIAB
G 1/2 f	55	24	12	21	140	ESIG 12 NIAB
G 3/4 f	59	32	16	21	150	ESIG 34 NIAB

Plugs with hose barb

Hose connection	L	SW	L1	L2	Weight	Type No.
Hose i.D. 9	74	24	25	21	110	ESIG 9 SAB
Hose i.D. 10	74	24	25	21	110	ESIG 10 SAB
Hose i.D. 13	74	24	25	21	110	ESIG 13 SAB
Hose i.D. 16	74	24	25	21	120	ESIG 16 SAB
Hose i.D. 19	74	24	25	21	120	ESIG 19 SAB

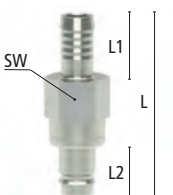
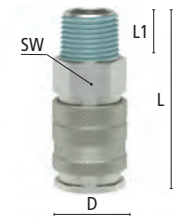
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)

DN 10



Plug Profile (original size)

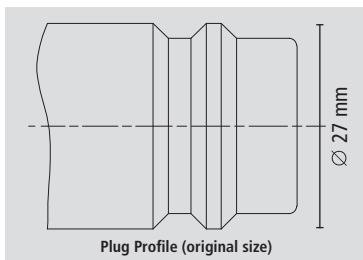
Also in
Stainless Steel
Series ESIGE
page 300



Industrial Quick Connect Couplings

Series ESG single and double shut-off

DN 19



- High-quality, extreme robust one-hand quick connect couplings for compressed air and liquid media
- Highest flow rate with low pressure drop for large tools especially for applications with high-volume flow rate in connection with a shut-off function by one-hand operation
- Couplings with straight-through valve on request
- Couplings are suitable for valved plugs
- For compressed air supply and other fluid media in industry or handcraft at extraction points with extremely high demand of compressed air for high performance tools or machinery
- Suitable to maintain the TA-Luft on industrial production plants

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 plain
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: Buna N (FKM and EPDM on request)

Also in
Stainless Steel
Series ESGE
page 302



Max. Working Press.	Temp.	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	⊗
PN 35 bar	20°C – +100°C	19	ISO 228	8000 l/min/single/2650 l/min double	One-hand	single/double shut-off	Air a.o.	Europe	Coupl. 5 / Plug 10

Couplings with male thread

Thread connection	L	SW	D	L1	Type of valve	Weight	Type No.
G 3/4 m	95	41	46	16	shut-off	650	ESG 34 AAB
G 1 m	98	41	46	19	shut-off	620	ESG 10 AAB
G 1 1/4 m	98	46	46	19	shut-off	745	ESG 54 AAB

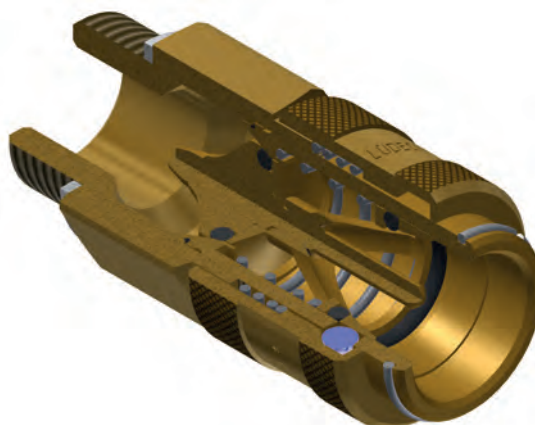
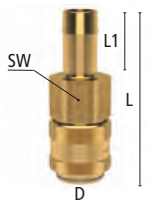
Couplings with female thread

Thread connection	L	SW	D	L1	Type of valve	Weight	Type No.
G 3/4 f	99	41	46	20	shut-off	740	ESG 34 IAB
G 1 f	100	41	46	22	shut-off	650	ESG 10 IAB
G 1 1/4 f	105	50	46	22	shut-off	700	ESG 54 IAB

Couplings with hose barb

Hose connection	L	SW	D	L1	Type of valve	Weight	Type No.
Hose i.d. 19	115	41	46	36	shut-off	600	ESG 19 TAB
Hose i.d. 25	125	41	46	48	shut-off	683	ESG 25 TAB

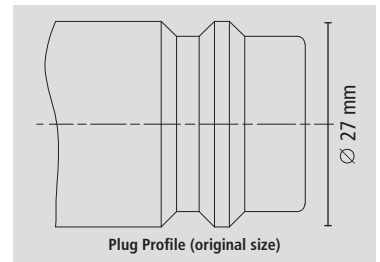
For hose clips type ZOS (⊗ page 414), type HS (⊗ page 415) or crimping ferrules type LPH (⊗ page 418)



Industrial Quick Connect Couplings

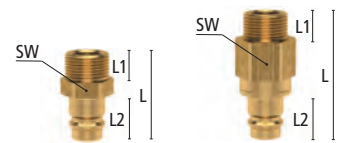
single and double shut-off Series ESG

DN 19



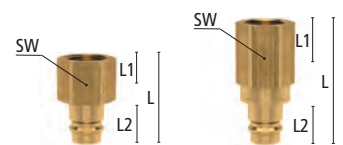
Plugs with male thread

Thread connection	L	SW	L1	L2	Type of valve	Weight	Type No.
G 3/4 m	60	30	16	34	straight-through	160	ESG 34 NA
G 1 m	65	36	19	34	straight-through	200	ESG 10 NA
G 1 1/4 m	68	46	19	34	straight-through	350	ESG 54 NA
G 3/4 m	92	41	16	34	shut-off	320	ESG 34 NAAB
G 1 m	95	41	19	34	shut-off	410	ESG 10 NAAB
G 1 1/4 m	95	46	19	34	shut-off	500	ESG 54 NAAB



Plugs with female thread

Thread connection	L	SW	L1	L2	Type of valve	Weight	Type No.
G 3/4 f	58	32	16	34	straight-through	160	ESG 34 NI
G 1 f	68	41	19	34	straight-through	300	ESG 10 NI
G 1 1/4 f	70	50	19	34	straight-through	410	ESG 54 NI
G 3/4 f	97	41	20	34	shut-off	430	ESG 34 NIAB
G 1 f	97	41	22	34	shut-off	450	ESG 10 NIAB
G 1 1/4 f	102	50	22	34	shut-off	540	ESG 54 NIAB



Plugs with hose barb

Hose connection	L	SW	L1	L2	Type of valve	Weight	Type No.
Hose i.D. 19	75	-	36	34	straight-through	154	ESG 19 S
Hose i.D. 25	87	-	48	34	straight-through	185	ESG 25 S
Hose i.D.19	117	41	36	34	shut-off	430	ESG 19 SAB
Hose i.D. 25	127	41	48	34	shut-off	460	ESG 25 SAB



For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)





SafeConnect-Line

Quick Connect Couplings with Safety Function

Compressed air is a media with an extremely high potential of danger. In case of improper use and when safety regulations are not being followed, enormous forces can be released and therefore, a risk of injury for the user is omnipresent.



Whiplashing effect: high risk of injury in the usage of compressed air - avoidable through the use of products from the **LUDECKE SafeConnect-Line**.








The following problems are well-known:

Accidental removal of the coupling and the reupon an uncontrolled slewing around the flexible hose under pressure (whiplashing effect), an unnecessarily high noise level while decoupling as well as false coupling while using different media at the same time.

The **LUDECKE SafeConnect-Line** offers various coupling systems which prevent any potential problems. That's how we can guarantee a maximum of reliability and safety at work.

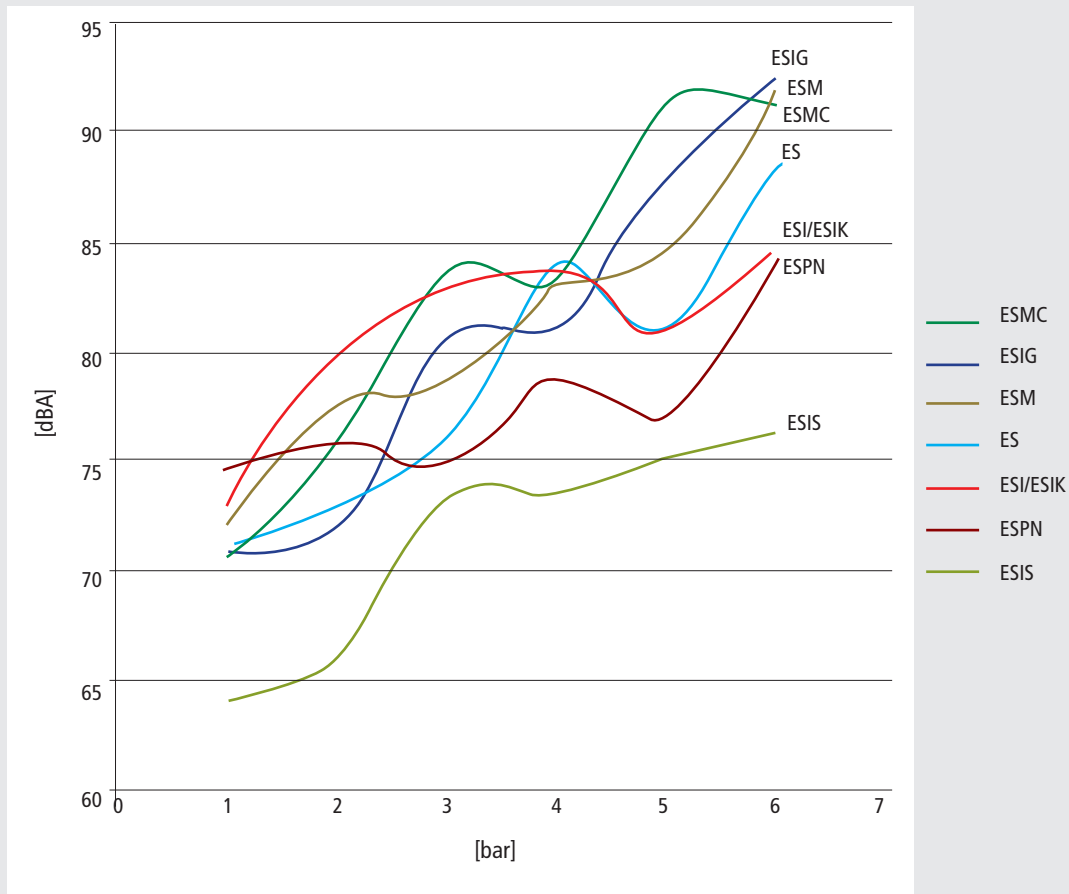
Different Sizes and Versions

The products of the **LUDECKE SafeConnect-Line** are available in different sizes, connection and valve types as well as materials.

Quick Connect Couplings with Self-Venting		Quick Connect Couplings with Sleeve Lock Mechanism				Quick Connect Couplings with Visual Indication
Pressure relief and anti-hose whip reduce the noise level and prevent the whiplashing effect.		Various security methods prevent an unwillingly disconnection of the coupling				Colour and shape coded couplings and plugs prevent false coupling
Sleeve concept Push-button concept		Locking nut	Locking nut	Locking nut + plug-in coding	Two-hand operation	Plug and colour coding
▼	▼	▼	▼	▼	▼	▼
Series: ESIS DN 7.8	Series: ESPN DN 7.4	Series: ES DN 7.2	Series: ESI DN 7.8	Series: ESIK DN 7.8	Series: ESI1A DN 7.4 ESI2A DN 7.4	Series: ESMK DN 5
						

Noise Level of Different Quick Connect Coupling Series while Disconnecting

The ESIS series operate from 1 to 6 bar pressure, these functions allow a pressureless disconnection below a noise level of 80 dB (A). Non venting couplings show a significant higher noise level already at 4 bar pressure, the usage of a hearing protection is strongly recommended.





Quick Connect Couplings With Self-Venting



The series ESIS DN 7.8 and ESPN DN 7.4 prevent the whiplashing effect due to their special construction and at the same time reduce the noise level while decoupling.

The series ESIS DN 7.8 allows a disconnection in two steps by pushing and pulling the sleeve. With the series ESPN DN 7.4 the connection can only be separated when the lasting pressure in the line has been reduced to a safe residual pressure after pushing the button at the coupling.

Sleeve Concept - Series ESIS DN 7.8

- Two-step safety self-venting coupling for safe handling of compressed air lines
- High flow rates at low pressure drop due to streamlined **OptiFlow**-Valve
- Compact and ergonomic design
- Compatible to Euro-Profile DN 7.2 and DN 7.8

According to
ISO 4414/
DIN EN 983/ BIA





Operation

The couplings of the series ESIS DN 7.8 are extremely easy to connect in one-hand operation. The disconnection takes place in two steps through a simple push and pull of the sleeve to the direction of the indication arrow sign.



One-hand operation: Connection by pushing the plug into the coupling



Disconnection - first step: Automatic venting



Disconnection - second step: Pressureless disconnection

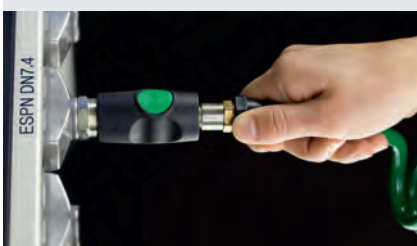
Push-Button Concept - Series ESPN DN 7.4

- One-step safety self-venting coupling by push-button concept
- Coupling made of composite material: low weight, no scratching of sensitive surfaces, abrasion, vibration, corrosion, shock and squeeze resistant
- Antistatic: no dust will deposit on painted or lacquered areas, no electrical conductivity

According to
ISO 4414/
DIN EN 983/ BIA

Operation

With this self-venting system the pressure relief and the disconnection of coupling and plug is initiated by pushing the button. The ergonomic shape enables easy and intuitive handling.



One-hand operation: Connection by pushing the plug into the coupling



Disconnection - Step 1: Automatic pressure relief



Disconnection - Step 2: Disconnection without danger



Quick Connect Couplings with Sleeve Lock Mechanism

Locking Nut - Series ES DN 7.2/ ESI DN 7.8/ ESIK DN 7.8

NEW!

The quick connect couplings with sleeve lock mechanism via locking nut offer simple and effective protection against unintentional disconnection. For this purpose after coupling the locking nut needs to be screwed manually for the series ES DN 7.2, ESI DN 7.8 and ESIK DN 7.8.

The series ESIK additionally has coded plugs, this means that only couplings and plugs with the same coding can be connected. Moreover this construction prevents the twisting of the plug in the coupling. The Series ESIK DN 7.8 is especially suitable for drane clean-up and renovation.

Operation:



One-hand operation: Connection through simple pushing the plug into the coupling



Securing of the sleeve through twisting of locking nut



Disconnection: Separation of coupling and plug only possible through opening of the locking nut

Two-Hand Operation - Series ESI1A DN 7.4/ ESI2A DN 7.4

Breathing air equipment is used in extreme situations and can be life-saving (e.g. for respiratory masks of firefighters).

The therefore used couplings need to be characterized by excellent quality and special security aspects.

The safety breathing air quick connect couplings of the series ESI1A and ESI2A DN 7.4 meet the high requirements: with the two-hand operation, they ensure high safety during the disconnection of coupling and plug and also prevent an accidental decoupling.

Operation



One-hand operation: Connection through simple pushing the plug into the coupling



Two-hand operation: The disconnection is effected while pushing the plug and pulling back the sleeve

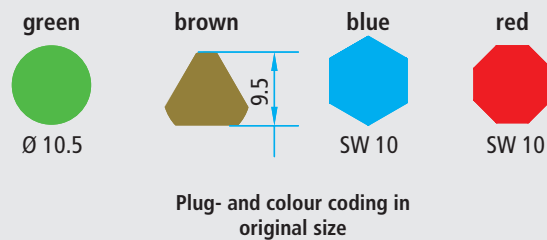


Quick Connect Couplings with Visual Indication

Plug and Colour Codification - Series ESMK DN 5

With the series ESMK DN 5 different media circuits can be differentiated very easily and false coupling can be prevented. Coloured anodized knurled sleeves of aluminium on the coupling, as well as on the plug and various codifications make this possible.

- To prevent wrong connections while using different media in an application
- Only couplings and plugs with the same coding and colour can be connected



Operation



One-hand operation: Connection via pushing the plug into the coupling. Thereby, the colours of the aluminium sleeve of the coupling and the aluminium ring of the plug as well as the plug-coding have to be identical.



Disconnection: Pulling back the coupling sleeve



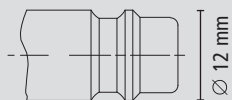
Wrong colour and coding!
Coupling is not possible.

Safety Self-Venting Couplings

Series ESIS with Sleeve Concept - single shut-off

According to
ISO 4414/
DIN EN 983/ BIA

DN 7.8



Plug Profile (original size)

- High-quality, ergonomic and very robust one-hand quick connect couplings in brass MS 58 nickel-plated with a sleeve made of hardened steel and optimum sealing and compact dimensions
- High flow capacity at low pressure drop due to streamlined valve
- For a safe handling of flexible compressed-air lines
- **Attention: An absolutely safe function can only be guaranteed by using hardened steel plugs!**
- Very easy to connect, disconnection in two steps by pushing and pulling the sleeve in direction of arrow. Automatic air-relief after step 1, riskless disconnection after step 2
- Secure prevention of the whip lashing effect at an optimum user friendliness

Materials

- Body, valve body, valve: Brass MS 58 nickel-plated
- Sleeve, plug: Hardened steel nickel-plated
- O-rings: Buna N (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Press.	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 12 bar	-20°C – +100°C	7.8	ISO 228/DIN 2999	1700 l/min	One-hand	Single Shut-off	Compressed air	Europe	Coupl. 5 / Plug 10

Safety Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	61	19	28	11	138	ESIS 14 A
R 3/8 m	62	19	28	12	147	ESIS 38 A
R 1/2 m	64	22	28	15	144	ESIS 12 A

Safety Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	57	19	28	10	146	ESIS 14 I
G 3/8 f	57	19	28	10	144	ESIS 38 I
G 1/2 f	59	24	28	12	160	ESIS 12 I

Safety Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	74	19	28	25	136	ESIS 6 T
Hose i.D. 8	74	19	28	25	136	ESIS 8 T
Hose i.D. 9	74	19	28	25	138	ESIS 9 T
Hose i.D. 10	74	19	28	25	138	ESIS 10 T
Hose i.D. 13	74	19	28	25	141	ESIS 13 T

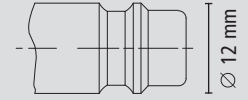
For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)



Safety Self-Venting Couplings

single shut-off Series ESIS

DN7.8



Plug Profile (original size)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m	33	13	9	20	14	ESI 18 NARS
R 1/4 m	35	14	11	20	18	ESI 14 NARS
R 3/8 m	36	17	12	20	23	ESI 38 NARS
R 1/2 m	40	22	15	20	47	ESI 12 NARS



Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	32	13	9	20	16	ESI 18 NIS
G 1/4 f	33	17	10	20	24	ESI 14 NIS
G 3/8 f	33	19	10	20	25	ESI 38 NIS
G 1/2 f	35	24	12	20	40	ESI 12 NIS



Plugs with hose barb

Hose connection	L	D	L2	L2	Weight	Type No.
Hose i.D. 6	44	12	24	20	13	ESI 6 SS
Hose i.D. 8	44	12	24	20	18	ESI 8 SS
Hose i.D. 9	44	12	24	20	16	ESI 9 SS
Hose i.D. 10	44	12	24	20	18	ESI 10 SS
Hose i.D. 13	44	15	23	20	26	ESI 13 SS



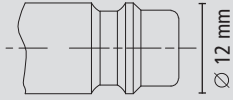
For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)

Safety Self-Venting Couplings

Series ESPN Push Button Concept – single shut-off

According to
ISO 4414/
DIN EN 983/ BIA

DN 7.4



Plug Profile (original size)

- Pressureless disconnection guarantees absolute safety
- High quality, robust one-hand quick connect couplings with superior seal characteristics
- New locking-system, extremely easy to connect and disconnect (only 1 button push necessary)
- Lightweight due to plastic compound material – no scratching of sensitive surfaces
- Safety-air relief function: air relief with 1 button-push, automatic safe disconnection of the coupling without pressure
- Interchangeable with the "Euro-Profile" DN 7.2 or DN 7.8
- No electrostatic charging
- Safe avoiding of the "whip lash-effect" with easy operation
- Attention: An absolutely safe function can only be guaranteed by using hardened steel plugs!

Materials

- Body: Steel zinc plated
- Complete housing: Plastic compound material
- Seals: O-ring Nitril
- Balls, pins: Stainless steel
- Plug: Steel hardened and nickel-plated

Max. Working Press.	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 12 bar	-15°C – +70°C	7.4	ISO 228	1650 l/min	One-hand	Single shut-off	Compressed air	Europe	Coupl. 1 / Plug 10

Couplings with male thread (coated)

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 m	82	23	32	15	127	ESPN 14 A
G 3/8 m	83	23	32	15	130	ESPN 38 A
G 1/2 m	85	23	32	15	135	ESPN 12 A

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	74	23	32	12	124	ESPN 14 I
G 3/8 f	74	23	32	12	116	ESPN 38 I
G 1/2 f	81	23	32	12	125	ESPN 12 I

Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 6	88	32	22	87	ESPN 6 T
Hose i.D. 8	88	32	22	85	ESPN 8 T
Hose i.D. 9	88	32	22	85	ESPN 9 T
Hose i.D. 10	88	32	22	85	ESPN 10 T
Hose i.D. 13	92	32	27	91	ESPN 13 T

For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m	33	13	9	20	14	ESI 18 NARS
R 1/4 m	35	14	11	20	18	ESI 14 NARS
R 3/8 m	36	17	12	20	23	ESI 38 NARS
R 1/2 m	40	22	15	20	47	ESI 12 NARS

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	32	13	9	20	16	ESI 18 NIS
G 1/4 f	33	17	10	20	24	ESI 14 NIS
G 3/8 f	33	19	10	20	25	ESI 38 NIS
G 1/2 f	35	24	12	20	40	ESI 12 NIS

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	44	12	24	20	13	ESI 6 SS
Hose i.D. 8	44	12	24	20	18	ESI 8 SS
Hose i.D. 9	44	12	24	20	16	ESI 9 SS
Hose i.D. 10	44	12	24	20	18	ESI 10 SS
Hose i.D. 13	44	15	23	20	26	ESI 13 SS

For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)



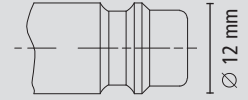
Safety Quick Connect Couplings with Sleeve Lock Mechanism – single shut-off **Series ES**

- **NEW:** now with locking nut NEW!
- Simple and effective protection to avoid accidental disconnection due to sleeve lock mechanism (disconnecting is only possible by opening the locking nut)
- To be coupled with standard plugs DN 7.2
- For the application of compressed air or liquid media, e.g. for sewer cleaning and sanitation

Materials

- Body, sleeve, valve body, valve, locking nut: Brass MS 58 plain
- Springs: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- O-rings: Buna N

DN7.2



Plug Profile (original size)

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.2	ISO 228	1000 l/min	One-hand	Single shut-off	Air a.o.	Worldwide	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 m	45	22	27	9	103	ES 14 AM

Couplings with female thread

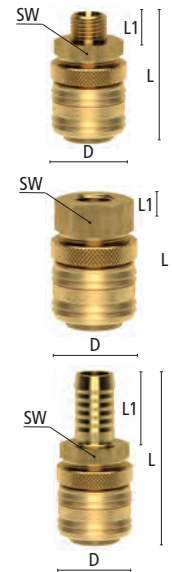
Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	41	22	27	10.5	106	ES 14 IM

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 13	61	22	27	25	109	ES 13 TM

For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)

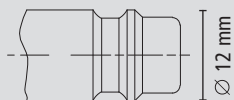
Special versions on request.



Safety Industrial Quick Connect Couplings

Series ESI with Sleeve Lock Mechanism - single shut-off

DN 7.8



Plug Profile (original size)

- Simple and effective protection to avoid accidental disconnection due to sleeve lock mechanism (disconnection is only possible by opening the locking nut)
- High flow rate with low pressure drop due to streamlined valve
- To be coupled with standard plugs DN 7.8 as well as DN 7.2
- **For the application of compressed air or liquid media, e.g. for sewer cleaning and sanitation**

Materials

- Body, valve body, valve: Brass MS 58 nickel-plated
- Sleeve: Steel hardened and nickel-plated
- Locking nut: Brass MS 58 black anodised **NEW!**
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: Buna N

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.8	ISO 228/DIN ISO 2999	2000 l/min	One-hand	Single shut-off	Air a.o.	Worldwide	5

Couplings with male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	60	19	23	11	115	ESI 14 AM
NEW! R 3/8 m	61	19	23	12	114	ESI 38 AM
NEW! R 1/2 m	59	24	23	15	131	ESI 12 AM

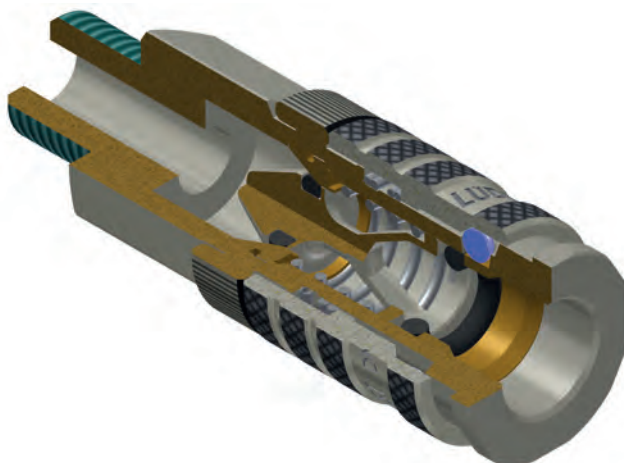
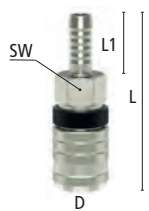
Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
NEW! G 1/4 f	57	19	23	10	118	ESI 14 IM
NEW! G 3/8 f	57	19	23	10	109	ESI 38 IM
NEW! G 1/2 f	59	24	23	12	129	ESI 12 IM

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
NEW! Hose i.D. 6	73	19	23	25	101	ESI 6 TM
NEW! Hose i.D. 8	73	19	23	25	103	ESI 8 TM
NEW! Hose i.D. 9	73	19	23	25	104	ESI 9 TM
NEW! Hose i.D. 10	73	19	23	25	105	ESI 10 TM
NEW! Hose i.D. 13	73	19	23	25	108	ESI 13 TM

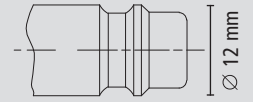
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)
Special versions on request.



Safety Industrial Quick Connect Couplings

with Sleeve Lock Mechanism - single shut-off **Series ESI**

DN7.8



Plug Profile (original size)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m	33	13	9	20	14	ESI 18 NARS
R 1/4 m	35	14	11	20	18	ESI 14 NARS
R 3/8 m	36	17	12	20	23	ESI 38 NARS
R 1/2 m	40	22	15	20	47	ESI 12 NARS



Plugs with parallel male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m	33	13	9	20	14	ESI 18 NAS
G 1/4 m	35	14	11	20	18	ESI 14 NAS
G 3/8 m	36	17	12	20	23	ESI 38 NAS
G 1/2 m	40	22	15	20	47	ESI 12 NAS



Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	32	13	9	20	16	ESI 18 NIS
G 1/4 f	33	17	10	20	24	ESI 14 NIS
G 3/8 f	33	19	10	20	25	ESI 38 NIS
G 1/2 f	35	24	12	20	40	ESI 12 NIS



Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	44	12	24	20	13	ESI 6 SS
Hose i.D. 8	44	12	24	20	18	ESI 8 SS
Hose i.D. 9	44	12	24	20	16	ESI 9 SS
Hose i.D. 10	44	12	24	20	18	ESI 10 SS
Hose i.D. 13	44	15	23	20	26	ESI 13 SS

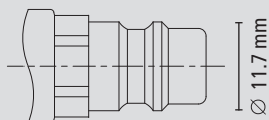


For hose clips type ZOS (☹ page 414), type HS (☹ page 415) or crimping ferrules type LPH (☹ page 418)

Safety Industrial Quick Connect Couplings

Series **ESIK** with Sleeve Lock Mechanism and Plug Coding - single shut-off

DN 7.8



Plug Profile (original size)

- Simple and effective protection to avoid accidental disconnection due to sleeve lock mechanism (disconnection is only possible by opening the locking nut)
- Plug codification (only the couplings and plugs with the same coding can be connected), therefore no turning of the codified plug in the coupling
- High flow rate with low pressure drop due to streamlined valve
- Can be coupled with standard plugs DN 7.8 (but not recommended)
- **For the application of compressed air or liquid media, e.g. for sewer cleaning and sanitation**

Materials

- Body, valve body, valve: Brass MS 58 nickel-plated
- Sleeve, plug: Steel hardened and nickel-plated
- Springs: Stainless steel 1.4310
- O-rings: Buna N (others on request)
- Balls: Stainless steel 1.4034
- Locking nut: Brass MS 58 black anodized

Max. Working Pressure	Temperature	DN	Thread	Flow capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.8	ISO 228/DIN ISO 2999	2000 l/min	One-hand	Single shut-off	Air a.o.	Worldwide	5

Couplings with male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	64	19	23	11	119	ESIK 14 A
R 3/8 m	65	19	23	12	118	ESIK 38 A
R 1/2 m	58	22	23	15	135	ESIK 12 A

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	61	19	23	10	122	ESIK 14 I
G 3/8 f	61	19	23	10	113	ESIK 38 I
G 1/2 f	63	24	23	12	133	ESIK 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	87	19	23	35	115	ESIK 6 T
Hose i.D. 8	87	19	23	35	117	ESIK 8 T
Hose i.D. 9	87	19	23	35	118	ESIK 9 T
Hose i.D. 10	87	19	23	35	119	ESIK 10 T
Hose i.D. 13	87	19	23	35	122	ESIK 13 T

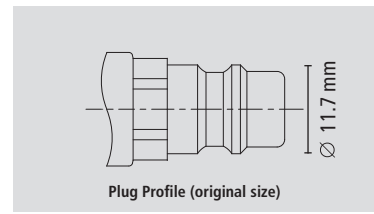
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)
Special versions on request.



Safety Industrial Quick Connect Couplings

with Sleeve Lock Mechanism and Plug Coding- single shut-off **Series ESIK**

DN7.8



Plugs with male thread and plug coding (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	39	17	11	23	26	ESIK 14 NARS
R 3/8 m	40	17	12	23	28	ESIK 38 NARS
R 1/2 m	43	22	15	23	44	ESIK 12 NARS



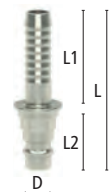
Plugs with female thread and plug coding

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	35	17	10	23	25	ESIK 14 NIS
G 3/8 f	35	19	10	23	25	ESIK 38 NIS
G 1/2 f	38	24	12	23	41	ESIK 12 NIS



Plugs with hose barb and plug coding

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	60	18.5	35	23	21	ESIK 6 SS
Hose i.D. 8	60	18.5	35	23	23	ESIK 8 SS
Hose i.D. 9	60	18.5	35	23	24	ESIK 9 SS
Hose i.D. 10	60	18.5	35	23	25	ESIK 10 SS
Hose i.D. 13	60	18.5	35	23	28	ESIK 13 SS

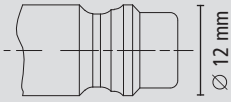


For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)

Breathing Air Couplings

Series ESI1A with Two-Hand Operation Safety Mechanism - single shut-off

DN 7.4



Plug Profile (original size)

- High-quality, extremely robust quick connect coupling with superior seal characteristics
- High flow rates at a low pressure drop through a streamlined valve
- To disconnect the plug has to be pushed into the coupling, only then the disconnect protection safety functions, therefore effective protection to avoid accidental disconnection
- Special constructions, e.g. straight-through or double shut-off on request
- Coupling "ESI1A" combinable with plug "ESI2A", plug "ESI1A" not combinable with coupling "ESI2A"

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 nickel-plated
- O-ring: Buna N
- Springs: Spring steel 1.4310
- Balls: Stainless steel 1.4034

According to
DIN EN 14594



Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.4	ISO 228 / DIN 2999	1800 l/min	Two-hand	Single shut-off	Compressed air	Europe	Coupl 5/ Plug10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight/pc. g	Type No.
R 1/4 m	60	19	23	11	106	ESI1A 14 A
R 3/8 m	61	19	23	12	108	ESI1A 38 A
R 1/2 m	64	22	23	15	136	ESI1A 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	56	19	23	10	109	ESI1A 14 I
G 3/8 f	56	19	23	10	103	ESI1A 38 I
G 1/2 f	58	24	23	12	138	ESI1A 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
SLW 6	73	19	23	25	100	ESI1A 6 T
SLW 8	73	19	23	25	101	ESI1A 8 T
SLW 9	73	19	23	25	100	ESI1A 9 T
SLW 10	73	19	23	25	104	ESI1A 10 T
SLW 13	73	19	23	25	110	ESI1A 13 T

For hose clips type ZOS (☉ page 414), type HS (☉ page 415) or crimping ferrules type LPH (☉ page 418)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	35.5	14	11	20	22	ESI1A 14 NA
R 3/8 m	37.5	17	12	20	27	ESI1A 38 NA
R 1/2 m	40.5	22	15	20	59	ESI1A 12 NA

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	33.5	17	10	20	26	ESI1A 14 NI
G 3/8 f	33.5	19	10	20	25	ESI1A 38 NI
G 1/2 f	35.5	24	12	20	41	ESI1A 12 NI

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight/pc. g	Type No.
Hose i.D. 6	47	14	25	20	16	ESI1A 6 S
Hose i.D. 8	47	14	25	20	18	ESI1A 8 S
Hose i.D. 9	47	14	25	20	12	ESI1A 9 S
Hose i.D. 10	47	14	25	20	21	ESI1A 10 S
Hose i.D. 13	47	16	25	20	28	ESI1A 13 S

Versions in stainless steel 1.4305 on request.

Breathing Air Couplings

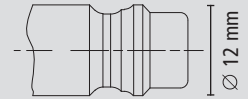
with Two-Hand Operation Safety Mechanism - single shut-off Series ES12A

- High-quality, extremely robust quick connect coupling with superior seal characteristic
- High flow rates at a low pressure drop through a streamlined valve
- To disconnect the plug has to be pushed into the coupling, only then the disconnect protection safety functions, therefore effective protection to avoid accidental disconnection
- Special constructions, e.g. straight-through or double shut-off on request
- Coupling "ES11A" combinable with plug "ES12A", plug "ES11A" not combinable with coupling "ES12A"

Material

- Body, sleeve, valve body, valve, plug: Brass MS 58 nickel-plated
- O-ring: Buna N
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

DN7.4



Plug Profile (original size)

According to
DIN EN 14594

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.4	ISO 228 / DIN 2999	1800 l/min	Two-hand	Single shut-off	compressed air	Europe	Coupl. 5 / Plug 10

Couplings with tapered male thread (thread coated) – long version

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	64	19	23	11	114	ES12A 14 A
R 3/8 m	65	19	23	12	117	ES12A 38 A
R 1/2 m	68	22	23	15	144	ES12A 12 A

Couplings with parallel female thread – long version

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	60	19	23	10	118	ES12A 14 I
G 3/8 f	60	19	23	10	111	ES12A 38 I
G 1/2 f	62	24	23	12	146	ES12A 12 I

Couplings with hose barb – long version

Hose connection	L	SW	D	L1	Weight	Type No.
SLW 6	77	19	23	25	108	ES12A 6 T
SLW 8	77	19	23	25	110	ES12A 8 T
SLW 9	77	19	23	25	108	ES12A 9 T
SLW 10	77	19	23	25	112	ES12A 10 T
SLW 13	77	19	23	25	118	ES12A 13 T

For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)

Plugs with tapered male thread (thread coated) – long version

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	40	14	11	25	24	ES12A 14 NA
R 3/8 m	42	17	12	25	29	ES12A 38 NA
R 1/2 m	45	22	15	25	62	ES12A 12 NA

Plugs with parallel female thread – long version

Thread connection	L	SW	L2	L2	Weight	Type No.
G 1/4 f	38	17	10	25	29	ES12A 14 NI
G 3/8 f	38	19	10	25	29	ES12A 38 NI
G 1/2 f	40	24	12	25	44	ES12A 12 NI

Plugs with hose barb – long version

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	51	12	25	25	17	ES12A 6 S
Hose i.D. 8	51	12	25	25	19	ES12A 8 S
Hose i.D. 9	51	12	25	25	19	ES12A 9 S
Hose i.D. 10	51	12	25	25	22	ES12A 10 S
Hose i.D. 13	53	15	25	25	30	ES12A 13 S

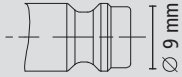
Versions in stainless steel 1.4305 on request.



Safety Quick Connect Couplings

Series **ESMK** with Plug and Colour Codification - single shut-off

DN5



Plug Profile (original size)

- Mini one-hand quick connect couplings made of brass MS 58 plain
- For the optical distinction of different media circulations with coloured and anodised aluminium sleeve on the coupling and coloured and anodised aluminium ring on the plug
- For the absolute avoidance of wrong coupling operations when using different media with supplementary plug codification (Only the same-coloured couplings and plugs can be connected)

Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve: Aluminium anodized
- Springs, retaining ring: Stainless steel 1.4310 • Balls: Stainless steel 1.3541
- O-rings: Buna N (EPDM and FKM on request)
- Plug: Brass MS 58 plain with anodized aluminium ring

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5	ISO 228	430 l/min	One-hand	Single shut-off	Div.	Europe	10

Couplings with male thread



Thread connection	L	SW	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
G 1/8 m	47	14	16	7	35	ESMK 18 AG	ESMK 18 ABR	ESMK 18 ABL	ESMK 18 AR
G 1/4 m	49	17	16	9	44	ESMK 14 AG	ESMK 14 ABR	ESMK 14 ABL	ESMK 14 AR

Male thread sealing with PVC-packings rings type HPD

Couplings with female thread



Thread connection	L	SW	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
G 1/8 f	47	14	16	7	40	ESMK 18 IG	ESMK 18 IBR	ESMK 18 IBL	ESMK 18 IR
G 1/4 f	49	17	16	9	46	ESMK 14 IG	ESMK 14 IBR	ESMK 14 IBL	ESMK 14 IR

Couplings with hose barb

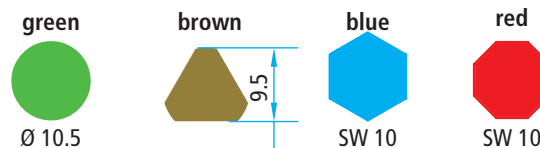


Hose connection	L	SW	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
Hose i.D. 6	69	14	16	17	35	ESMK 6 TG	ESMK 6 TBR	ESMK 6 TBL	ESMK 6 TR
Hose i.D. 9	69	14	16	17	37	ESMK 9 TG	ESMK 9 TBR	ESMK 9 TBL	ESMK 9 TR

For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)

Couplings double shut-off on request.

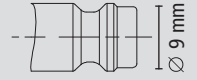
Plug and colour coding in original size



Safety Quick Connect Couplings

with Plug and Colour Codification - single shut-off Series ESMK

DN5



Plug Profile (original size)

Plugs with male thread

Thread connection	L	SW	L1	Weight	Type No.	Type No.	Type No.	Type No.
G 1/8 m	39	17	7	15	ESMK 18 NAG	ESMK 18 NABR	ESMK 18 NABL	ESMK 18 NAR
G 1/4 m	41	17	9	25	ESMK 14 NAG	ESMK 14 NABR	ESMK 14 NABL	ESMK 14 NAR

Male thread sealing with PVC-packing rings type HPD



Plugs with female thread

Thread connection	L	SW	L1	Weight	Type No.	Type No.	Type No.	Type No.
G 1/8 f	38	17	5	15	ESMK 18 NIG	ESMK 18 NIBR	ESMK 18 NIBL	ESMK 18 NIR
G 1/4 f	40	17	7	25	ESMK 14 NIG	ESMK 14 NIBR	ESMK 14 NIBL	ESMK 14 NIR



Plugs with hose barb

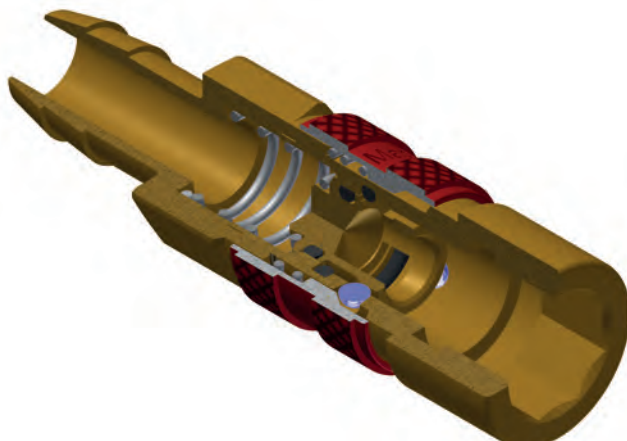
Hose connection	L	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
Hose i.D. 6	47	15	17	12	ESMK 6 SG	ESMK 6 SBR	ESMK 6 SBL	ESMK 6 SR
Hose i.D. 9	47	15	17	15	ESMK 9 SG	ESMK 9 SBR	ESMK 9 SBL	ESMK 9 SR

For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)



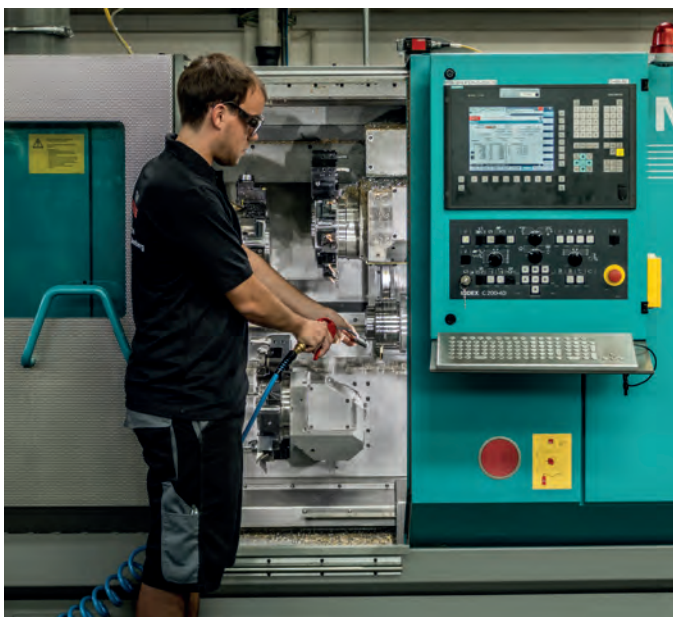
Bulkhead plugs

Hose connection	L	SW	L1	L2	SW1	G	Weight	Type No.	Type No.
Hose i.D. 6	63	17	17	14	17	M 12x1 m	40	ESMK 6 SSVG	ESMK 6 SSVBR
Hose i.D. 6	63	17	17	14	17	M 12x1 m	40	ESMK 6 SSVBL	ESMK 6 SSVR





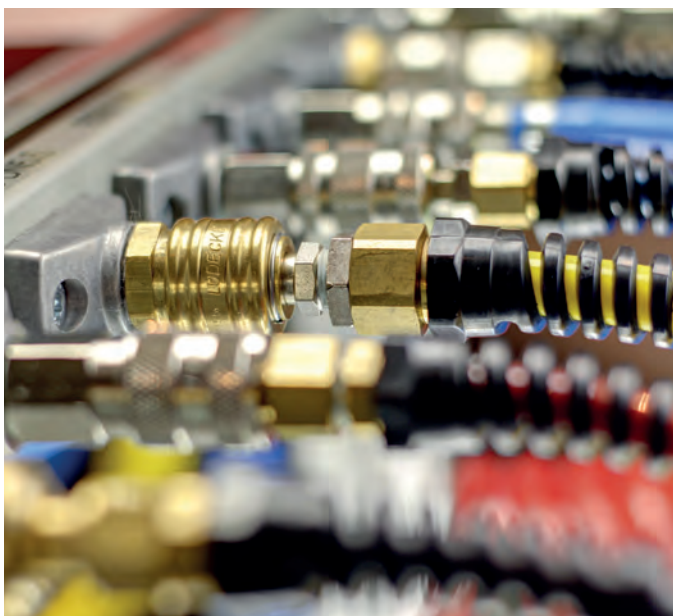
Quick Connect Couplings with International Plug Profiles



In order to supply the different regions, **LUDECKE** offers a wide range of quick connect couplings with international plug profiles.

These coupling systems are available from DN 5 to DN 10 - subject to your requirements.

Operation



The function is equivalent to the quick connect couplings with european plug profiles:

In order to connect, simply push the plug into the coupling. To disconnect, release the sleeve and hold the plug.



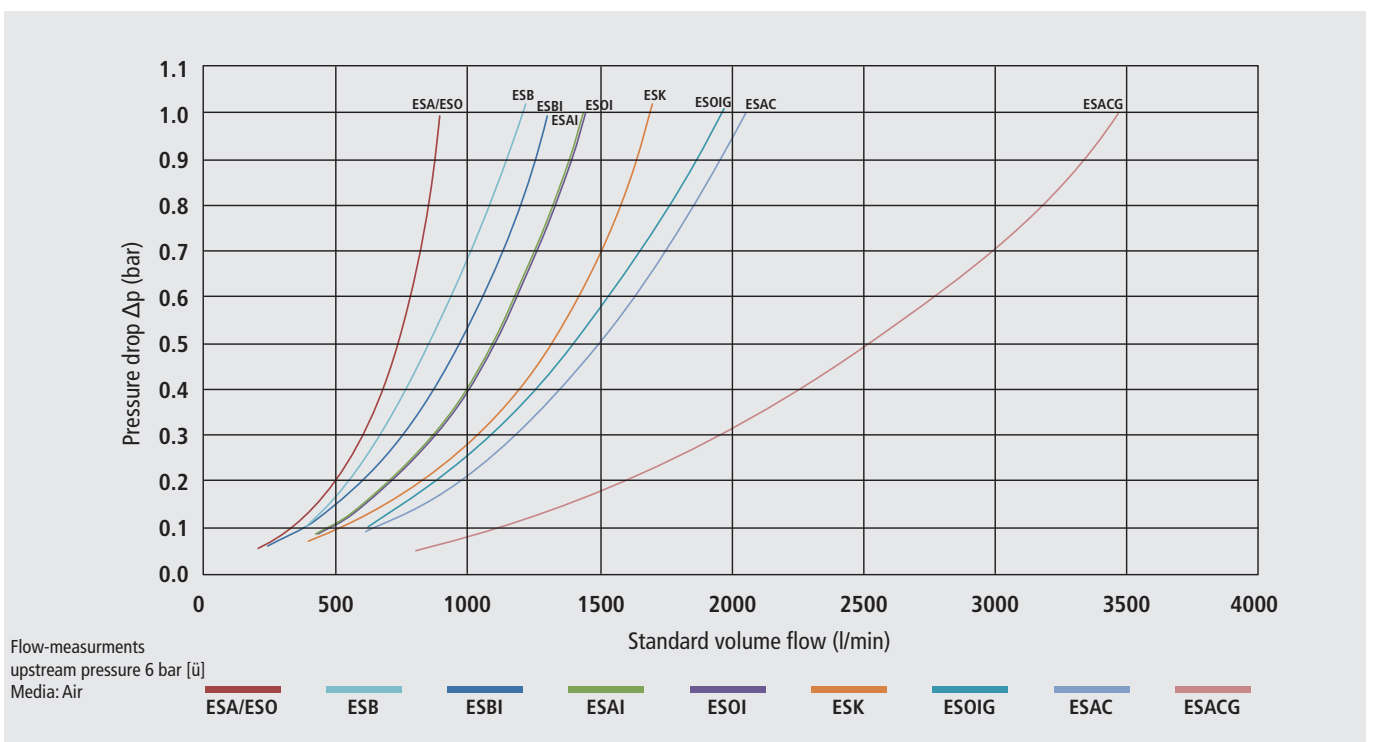
Worldwide Range

LUDECKE offers quick connect couplings especially customized for the following markets:

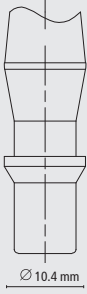


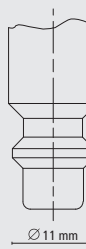
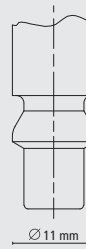










- Great Britain
- Spain
- France
- Benelux countries
- Switzerland
- Asia
- USA
- and others

Flow Capacity

The following diagram indicates the flow capacity of the different coupling systems.

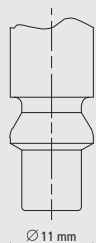


Overview of the Quick Connect Couplings with

Series	NEW! ESB DN 5.5	ESBI DN 5	ESA DN 5.5	ESAI DN 5.5	ESO DN 5.5
Plug Profile (original size)	 Ø 10.4 mm	 Ø 11 mm	 Ø 11 mm	 Ø 11 mm	 Ø 11 mm
					
					
Materials:					
Body:	Brass MS 58 nickel-pl.	Brass MS 58 nickel-pl.	Brass MS 58 plain	Brass MS 58 nickel-pl.	Brass MS 58 plain
Sleeve:	Steel hardened + nickel-pl	Steel hardened + zinc-pl	Brass MS 58 plain	Steel hardened + nickel-pl.	Brass MS 58 plain
Valve body:	Brass MS 58 nickel-pl.	Steel hardened + zinc-pl	Brass MS 58 plain	Brass MS 58 nickel-pl.	Brass MS 58 plain
Valve:	Brass MS 58 plain	Brass MS 58 nickel-pl.	Brass MS 58 plain	Brass MS 58 nickel-pl.	Brass MS 58 plain
Springs, Retaining ring:	Stainless steel 1.4310	Stainless steel 1.4310	Stainless steel 1.4310	Stainless steel 1.4310	Stainless steel 1.4310
Balls:	Stainless steel 1.4034	Stainless steel 1.4034	-	Stainless steel 1.4034	-
Pins:	-	-	Stainless steel 1.4305	-	Stainless steel 1.4305
Seals:	Buna N	Buna N	Buna N	Buna N	Buna N
Special seals for other media on request:	-	EPDM/ FKM/ FFKM	EPDM/ FKM/ FFKM	EPDM/ FKM/ FFKM	EPDM/ FKM/ FFKM
Plug:	Steel hardened +nickel-pl.	Steel hardened + nickel-pl.	Brass MS 58 plain/Steel	Steel hardened + nickel-pl.	Brass MS 58 plain
Max. Working Pressure:	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar
Temperature:	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C
Max. Flow Capacity: at 6 bar [ü], 0.5 bar pressure drop single shut-off	800 l/min	950 l/min	775 l/min	1100 l/min	775 l/min
Type of valve:	single	single	single	single	single
Operation:	one-hand	one-hand	one-hand	one-hand	one-hand
Norm:	-	-	ISO 6150 B US-MIL-Spec. C4109 Industr. Interchange 1/4"	ISO 6150 B US-MIL-Spec. C4109 Industr. Interchange 1/4"	-
Compatibility:	Parker Rectus Series 19 PCL60 (UK)	Parker Rectus Series 17 Schrader NW5	Parker Rectus Series 23/24, Hansen 3000, Cejn 310, Milton, Gromelle 600 USA, Spain, France	Parker Rectus Series 23/24, Hansen 3000, Cejn 310, Milton, Gromelle 600 USA, Spain, France	Parker Rectus Series 14/22, ARO 210, Cejn 300, Orion 44510, Parker 50 Benelux, Switzerland 89
Area:	Great Britain	Great Britain, Europe	USA, Spain, France	USA, Spain, France	Benelux, Switzerland
Page:	84	85	86	88	89

International Plug Profiles

ESOI
DN 5.5



Brass MS 58 nickel-pl.
Steel hardened + nickel-pl.
Brass MS 58 nickel-pl.
Brass MS 58 nickel-pl.
Stainless steel 1.4310
Stainless steel 1.4034

-
Buna N

EPDM/ FKM/ FFKM

Steel hardened + nickel-pl.

PN 35 bar

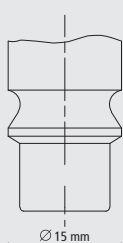
-20°C – +100°C

1140 l/min

single
one-hand

Parker|Rectus Series 14/22,
ARO 210, Cejn 300,
Orion 44510, Parker 50
Benelux, Switzerland
90

ESOIG
DN 9



Brass MS 58 plain
Brass MS 58 plain
Brass MS 58 plain
Brass MS 58 plain
Stainless steel 1.4310
-
Stainless steel 1.4305
Buna N

Buna N

EPDM/ FKM/ FFKM

Steel hardened + nickel-pl.

PN 35 bar

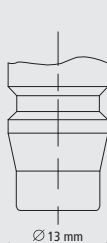
-20°C – +100°C

1400 l/min

single
one-hand

Rectus Series 40 KA,
Orion 44520,
Orion 44530
Benelux, Switzerland
91

ESK
DN 7.5



Brass MS 58 plain
Brass MS 58 nickel-pl.
Brass MS 58 plain
Brass MS 58 plain
Brass MS 58 plain
Stainless steel 1.4310
-
Stainless steel 1.4305
Buna N

Buna N

EPDM/ FKM/ FFKM

Steel hardened + nickel-pl.

PN 35 bar

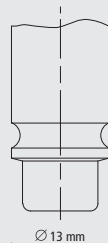
-20°C – +100°C

1375 l/min

single
one-hand

Parker|Rectus Series 13/03,
Nitto Kohki 200
Cejn 314/315
especially Asia
92

ESAC
DN 8



Brass MS 58 nickel-pl.
Steel hardened + nickel-pl.
Steel hardened + zinc-pl.
Brass MS 58 nickel-pl.
Stainless steel 1.4310
Stainless steel 1.4034

-
Buna N

EPDM/ FKM/ FFKM

Steel hardened + zinc-pl.

PN 35 bar

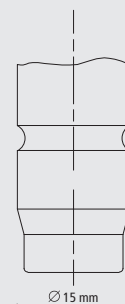
-20°C – +100°C

1500 l/min

single
one-hand

Parker|Rectus Series 33
Atlas Copco QIC 10
worldwide
94

ESACG
DN 10



Brass MS 58 nickel-pl.
Steel hardened + nickel-pl.
Steel zinc-pl.
Brass MS 58 plain
Stainless steel 1.4310
Stainless steel 1.4034

-
Buna N

EPDM/ FKM

Steel hardened + nickel-pl.

PN 35 bar

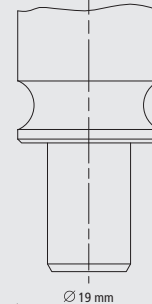
-20°C – +100°C

2600 l/min

single
one-hand

Parker|Rectus Series 34 KA,
Atlas Copco QIC 15
worldwide
95

F1K
DN 8



Steel zinc-pl.+yellow pass.
Steel zinc-pl.+yellow pass.
Steel zinc-pl.+yellow pass.
Brass MS 58 plain
Stainless steel 1.4310
Stainless steel 1.4034

-
Buna N

EPDM/ FKM/ FFKM

Steel nickel-pl.+yellow
passivated

PN 35 bar

-20°C – +100°C

1800 l/min

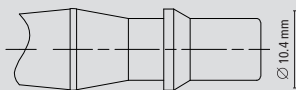
single
two-hand

-
Germany
96

Quick Connect Couplings

Series ESB single shut-off

DN5.5



Plug Profile (original size)

- High-quality, extreme robust one-hand quick connect couplings with British plug profile
- Sleeve design protects the coupling from dirt
- Hose barb profile for safe fit of hose and easy assembly
- For compressed air as well as liquid or gaseous media in industry and craftsmanship

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve, plug: Hardened steel and nickel-plated
- O-rings: Buna N
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Work. Pressure	Temperature	DN	Thread	Flow Cap.	Operation	Type of valve	Media	Norm	
PN 35 bar	-20°C – +100°C	5.5	ISO228 / DIN2999	800 l/min	One-Hand	Single Shut-Off	Different	U.K. standard	Coupl. 5 / Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	63	19	23	12	109	ESB 14 A
R 3/8 m	63	19	23	12	111	ESB 38 A
R 1/2 m	67	22	23	15	139	ESB 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	58	19	23	9	112	ESB 14 I
G 3/8 f	58	19	23	9	106	ESB 38 I
G 1/2 f	61	24	23	12	141	ESB 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	76	19	23	25	103	ESB 6 T
Hose i.D. 8	76	19	23	25	105	ESB 8 T
Hose i.D. 10	76	19	23	25	106	ESB 10 T
Hose i.D. 13	76	19	23	25	108	ESB 13 T

For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	50	14	12	31	22	ESB 14 NAS
R 3/8 m	50	17	12	31	29	ESB 38 NAS

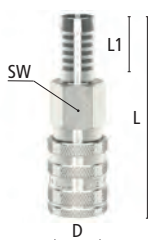
Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	46	17	9	31	25	ESB 14 NIS
G 3/8 f	47	19	9	31	26	ESB 38 NIS

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	60	12	25	31	16	ESB 6 SS
Hose i.D. 8	60	12	25	31	17	ESB 8 SS
Hose i.D. 10	60	12	25	31	19	ESB 10 SS

For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)

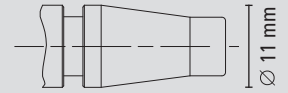


Industrial Quick Connect Couplings

single shut-off Serie ESBI

- High-quality, extreme robust quick connect couplings with British plug profile
- High flow rate at a low pressure drop due to streamlined valve
- Special versions on request i.e. couplings with straight through or double shut-off
- For the supply of compressed air as well as other fluid or gaseous media in industry and craftsmanship

DN5



Plug Profile (original size)

Materials

- Body, valve: Brass MS 58 nickel-plated
- Valve body: Steel hardened and nickel-plated
- Sleeve, plug: Steel hardened and nickel-plated
- O-rings: Buna N (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Work. Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5	ISO 228 / DIN 2999	950 l/min	One-Hand	Single Shut-Off	Different	EU + UK	Coupl./Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	63	19	23	11	114	ESBI 14 A
R 3/8 m	63	19	23	12	117	ESBI 38 A
R 1/2 m	66	22	23	15	145	ESBI 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	60	19	23	10	117	ESBI 14 I
G 3/8 f	60	19	23	10	111	ESBI 38 I
G 1/2 f	62	24	23	12	146	ESBI 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	76	19	23	25	107	ESBI 6 T
Hose i.D. 8	76	19	23	25	109	ESBI 8 T
Hose i.D. 10	76	19	23	25	110	ESBI 10 T
Hose i.D. 13	76	19	23	25	111	ESBI 13 T

For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m	37	11	9	28	16	ESBI 18 NAS
R 1/4 m	40	14	12	28	20	ESBI 14 NAS
R 3/8 m	40	17	12	28	25	ESBI 38 NAS

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	35	14	7	28	18	ESBI 18 NIS
G 1/4 f	37	17	9	28	26	ESBI 14 NIS
G 3/8 f	37	19	9	28	27	ESBI 38 NIS

Plugs with hose barb

Hose connection	D	L	L1	L2	Weight	Type No.
Hose i.D. 6	52	12	24	28	15	ESBI 6 SS
Hose i.D. 8	52	12	24	28	20	ESBI 8 SS
Hose i.D. 10	52	12	24	28	20	ESBI 10 SS

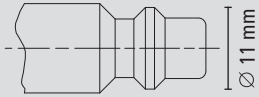
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)



Quick Connect Couplings

Series ESA single shut-off

DN5.5



Plug Profile (original size)

- ISO 6150 B and US Mil.-Spec. C4109 conform
- Sleeve design protects the coupling from dirt
- New hose barb profile for safe fit of hose and easy assembly
- Thread types available with NPT or BSP-threads
- For compressed air lines in industry, craftsmanship, hobbies, etc.

Materials

- Body, sleeve, valve body, valve: Brass MS 58 plain
- Springs, retaining ring: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- O-rings: Buna N
- Plug: Brass MS 58 plain or steel zinc-plated and yellow passivated (free of chrome VI)

Max. Work. Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5.5	ISO 228 / NPT	775 l/min	One-Hand	Single Shut-Off	Compr. Air	USA, F, SP	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 m	40	22	27	9	75	ESA 14 AR
G 3/8 m	41	22	27	10	78	ESA 38 AR
G 1/2 m	41	24	27	10	88	ESA 12 AR
NPT 1/4 m	45	22	27	13.5	81	ESA 14 A
NPT 3/8 m	46	22	27	14.5	84	ESA 38 A
NPT 1/2 m	50	22	27	18	105	ESA 12 A

Male thread sealing for ISO 228 threads with PVC-packing rings type HPD (☺ page 231)

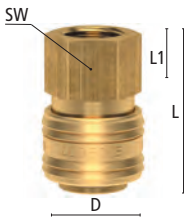
Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	41	22	27	10.5	93	ESA 14 IR
G 3/8 f	41	22	27	10.5	89	ESA 38 IR
G 1/2 f	41	24	27	10.5	91	ESA 12 IR
NPT 1/4 f	43.5	22	27	13.5	101	ESA 14 I
NPT 3/8 f	45	22	27	14.5	96	ESA 38 I
NPT 1/2 f	48	24	27	18	103	ESA 12 I

Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 6	55	27	25	66	ESA 6 T
Hose i.D. 8	55	27	25	68	ESA 8 T
Hose i.D. 9	55	27	25	70	ESA 9 T
Hose i.D. 13	55	27	25	76	ESA 13 T

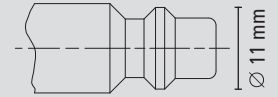
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)



Quick Connect Couplings

single shut-off Series ESA

DN5.5

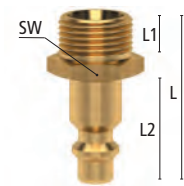


Plug Profile (original size)

Plugs with male thread

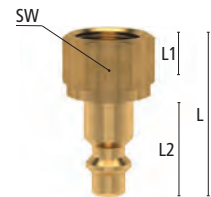
Thread connection	L	SW	L1	L2	Material	Weight	Type No.
G 1/8 m	35	13	7	24	Brass MS 58	19	ESA 18 NAR
G 1/4 m	37	17	9	24	Brass MS 58	23	ESA 14 NAR
G 3/8 m	38	19	9	24	Brass MS 58	31	ESA 38 NAR
NPT 1/8 m	38	13	9.5	24	Brass MS 58	23	ESA 18 NA
NPT 1/4 m	41	14	13	24	Brass MS 58	25	ESA 14 NA
NPT 3/8 m	42	17	13	24	Brass MS 58	31	ESA 38 NA
NPT 1/4 m	41	14	13	24	Steel	22	ESA 14 NAS

Male thread sealing for ISO 228 threads with PVC-packing rings type HPD (© page 231)



Plugs with female thread

Thread connection	L	SW	L1	L2	Material	Weight	Type No.
G 1/8 f	35	13	9	24	Brass MS 58	18	ESA 18 NIR
G 1/4 f	38	17	12	24	Brass MS 58	27	ESA 14 NIR
G 3/8 f	39	19	12	24	Brass MS 58	26	ESA 38 NIR
NPT 1/8 f	35	13	10	24	Brass MS 58	20	ESA 18 NI
NPT 1/4 f	40	17	14	24	Brass MS 58	29	ESA 14 NI
NPT 3/8 f	42	21	15	24	Brass MS 58	40	ESA 38 NI
NPT 1/4 f	40	17	14	24	Steel	27	ESA 14 NIS



Plugs with hose barb

Hose connection	L	D	L1	L2	Material	Weight	Type No.
Hose i.D. 6	49	12	25	24	Brass MS 58	17	ESA 6 S
Hose i.D. 9	48	12	24	24	Brass MS 58	21	ESA 9 S
Hose i.D. 13	48	15	23	24	Brass MS 58	29	ESA 13 S
Hose i.D. 6	49	12	25	24	Steel	16	ESA 6 SS
Hose i.D. 9	48	12	24	24	Steel	19	ESA 9 SS
Hose i.D. 13	48	15	23	24	Steel	26	ESA 13 SS

For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)

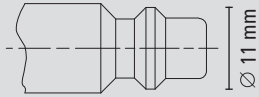
Special versions on request.



Industrial Quick Connect Couplings

Series ESAI single shut-off

DN5.5



Plug Profile (original size)

- According to ISO 6150 B resp. US Mil. Spec. 4109
- High-quality, extreme robust quick connect couplings with superior seal characteristic
- High flow rate at a low pressure drop due to streamlined valve
- Special versions on request i.e. couplings with squeeze nut
- For the supply of compressed as well as air other fluid or gaseous media in industry and craftsmanship

Materials

- Body, valve body, valve: Brass MS 58 nickel-plated
- Sleeve, plug: Steel hardened and nickel-plated
- O-rings: Buna N (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Work. Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5.5	ISO 228 / DIN 2999	1100 l/min	One-Hand	Single Shut-Off	Compr. Air	USA, F, SP	Coupl. 5 / Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	60	19	23	11	95	ESAI 14 A
R 3/8 m	60	19	23	12	98	ESAI 38 A
R 1/2 m	63	22	23	17	120	ESAI 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	57	19	23	10	110	ESAI 14 I
G 3/8 f	57	19	23	10	105	ESAI 38 I
G 1/2 f	59	24	23	12	120	ESAI 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
SLW 6	73	19	23	25	92	ESAI 6 T
SLW 8	73	19	23	25	95	ESAI 8 T
SLW 9	73	19	23	25	96	ESAI 9 T
SLW 10	73	19	23	25	99	ESAI 10 T
SLW 13	73	19	23	25	105	ESAI 13 T

For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m	38	13	9	24	19	ESAI 18 NAS
R 1/4 m	41	14	12	24	25	ESAI 14 NAS
R 3/8 m	42	17	13	24	35	ESAI 38 NAS
R 1/2 m	48	22	17	24	55	ESAI 12 NAS

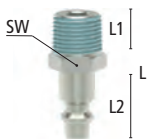
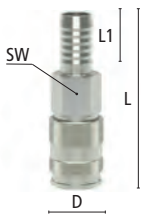
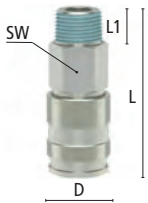
Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	36	14	9	24	22	ESAI 18 NIS
G 1/4 f	36	17	9	24	25	ESAI 14 NIS
G 3/8 f	36	19	9	24	25	ESAI 38 NIS
G 1/2 f	39	24	12	24	40	ESAI 12 NIS

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	48	14	23	24	15	ESAI 6 SS
Hose i.D. 8	48	14	23	24	17	ESAI 8 SS
Hose i.D. 9	48	14	23	24	18	ESAI 9 SS
Hose i.D. 10	48	14	23	24	20	ESAI 10 SS
Hose i.D. 13	48	14	23	24	25	ESAI 13 SS

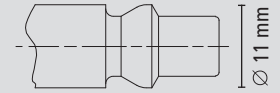
For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)



Quick Connect Couplings

single shut-off Series ESO

DN5.5



Plug Profile (original size)

- Closed sleeve protects the couplings from dirt, new sleeve profile
- Stem profile for safe fit of the hose and easy assembly
- For compressed air lines in industry, craftsmanship, hobbies, etc.
- Interchangeable to ARO 210, ORION 44510

Materials

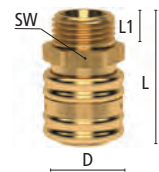
- Body, sleeve, valve body, valve, plug: Brass MS 58 plain
- Springs, retaining ring: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- O-rings: Buna N

Max. Work. Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5.5	ISO 228	775 l/min	One-Hand	Single Shut-Off	Compr. Air	BeNeLux, CH	10

Couplings with male thread

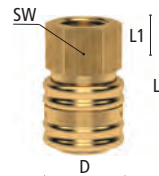
Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 m	42	22	27	9	85	ESO 14 A
G 3/8 m	43	22	27	10	90	ESO 38 A
G 1/2 m	43	24	27	10	105	ESO 12 A

Male thread sealing with PVC-packing rings type HPD (☺ page 231)



Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	43	22	27	10.5	104	ESO 14 I
G 3/8 f	43	22	27	10.5	108	ESO 38 I
G 1/2 f	44.5	24	27	12	120	ESO 12 I



Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 6	57	27	25	77	ESO 6 T
Hose i.D. 8	57	27	25	80	ESO 8 T
Hose i.D. 9	57	27	25	82	ESO 9 T
Hose i.D. 10	57	27	25	85	ESO 10 T

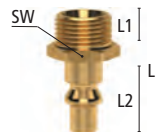
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)



Plugs with male thread

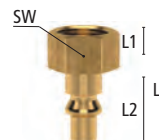
Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m	33	13	6	22	16	ESO 18 NA
G 1/4 m	35	17	8	22	21	ESO 14 NA
G 3/8 m	35	19	8	22	26	ESO 38 NA

Male thread sealing with PVC-packing rings type HPD (☺ page 231)



Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	34	17	9	22	23	ESO 14 NI
G 3/8 f	34	19	9	22	23	ESO 38 NI



Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	47	11	22	22	14	ESO 6 S
Hose i.D. 8	47	11	22	22	15	ESO 8 S
Hose i.D. 9	47	11	22	22	16	ESO 9 S
Hose i.D. 10	47	11	22	22	18	ESO 10 S

For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)

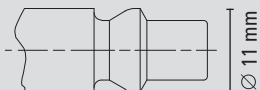


Special versions on request.

Industrial Quick Connect Couplings

Series ESOI single shut-off

DN5.5



Plug Profile (original size)

- Interchangeable with ARO 210, ORION 44510
- High-quality, extreme robust quick connect couplings with superior seal characteristics
- High flow rate at a low pressure drop due to streamlined valve
- Special versions on request i.e. squeeze nut
- **For the supply of compressed air or other fluid or gaseous media in industry and craftsmanship**

Materials

- Body, valve body, valve: Brass MS 58 nickel-plated
- Sleeve, plug: Steel hardened and nickel-plated
- O-rings: Buna N (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Work. Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5.5	ISO 228 / DIN 2999	1140 l/min	One-Hand	Single Shut-Off	Compr. Air	BeNeLux, CH	Coupl. 5 / Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	61	19	23	11	95	ESOI 14 A
R 3/8 m	61	19	23	12	98	ESOI 38 A
R 1/2 m	64	22	23	15	120	ESOI 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	58	19	23	10	110	ESOI 14 I
G 3/8 f	58	19	23	10	105	ESOI 38 I
G 1/2 f	60	24	23	12	120	ESOI 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	74	19	23	25	92	ESOI 6 T
Hose i.D. 8	74	19	23	25	95	ESOI 8 T
Hose i.D. 9	74	19	23	25	96	ESOI 9 T
Hose i.D. 10	74	19	23	25	99	ESOI 10 T
Hose i.D. 13	74	19	23	25	105	ESOI 13 T

For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	39	14	12	22	21	ESOI 14 NAS
R 3/8 m	39	17	12	22	26	ESOI 38 NAS
R 1/2 m	42	22	15	22	40	ESOI 12 NAS

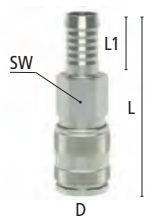
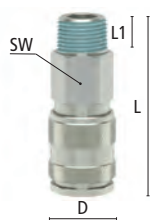
Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	35	17	10	22	23	ESOI 14 NIS
G 3/8 f	35	19	10	22	23	ESOI 38 NIS
G 1/2 f	37	24	12	22	37	ESOI 12 NIS

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	47	11	24	22	14	ESOI 6 SS
Hose i.D. 8	47	11	24	22	15	ESOI 8 SS
Hose i.D. 9	47	11	24	22	16	ESOI 9 SS
Hose i.D. 10	47	11	24	22	18	ESOI 10 SS
Hose i.D. 13	49	11	24	22	24	ESOI 13 SS

For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)



Industrial Quick Connect Couplings

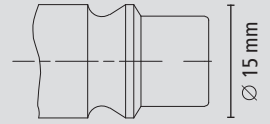
single shut-off Serie ESOIG

- High-quality, extreme robust quick connect couplings made of brass MS 58 plain (on demand nickel-plated) with superior seal characteristics
- Interchangeable with ARO 310, ORION 44520
- High flow rate at a low pressure drop due to streamlined valve
- For the supply of compressed air or other fluid or gaseous media in industry and craftsmanship

Materials

- Body, valve body, valve, sleeve: Brass MS 58 plain
- O-rings: Buna N (other materials on request)
- Springs, retaining ring: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- Plug: Hardened steel and nickel-plated

DN 9



Plug Profile (original size)

Max. Work. Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	9	ISO 228 / DIN 2999	1400 l/min	One-Hand	Single Shut-Off	Druckluft	BeNeLux, CH.	10

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 3/8 f	46	27	32	10	164	ESOIG 38 I
G 1/2 f	46	27	32	11	155	ESOIG 12 I

Plugs with tapered male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
R 3/8 m	40	17	12	23	40	ESOIG 38 NAS
R 1/2 m	46	22	17	23	54	ESOIG 12 NAS

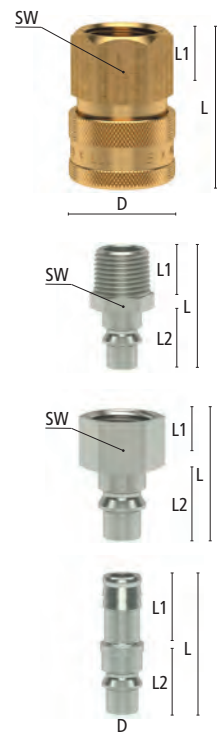
Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 f	35	19	9	23	28	ESOIG 38 NIS
G 1/2 f	39	24	12	23	48	ESOIG 12 NIS

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 10	51	16	25	23	25	ESOIG 10 SS
Hose i.D. 13	51	16	25	23	33	ESOIG 13 SS
Hose i.D. 19	51	19	25	23	44	ESOIG 19 SS

For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)



Quick Connect Couplings

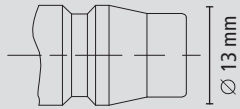
Series ESK single shut-off

DN 7.5

- Quick connect couplings, mainly used in the Asian market, interchangeable with type Nitto Kohki, one-hand operation
- For compressed air lines in industry, craftsmanship, hobbies, etc.

Materials

- Body, valve body, valve: Brass MS 58 nickel-plated
- Sleeve: Brass MS 58 nickel-plated
- Spring, retaining ring: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- O-rings: Buna N
- Plug: Steel hardened and nickel-plated



Plug Profile (original size)

Max. Work. Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.5	ISO 228 / DIN 2999	1375 l/min	One-Hand	Single Shut-Off	Compr. Air	Asia	10

Couplings with tapered male thread (thread-coated), coated environmentally friendly with Loctite

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	46.5	22	27	11	81	ESK 14 AB
R 3/8 m	47.5	22	27	12	84	ESK 38 AB
R 1/2 m	47.5	22	27	12	100	ESK 12 AB

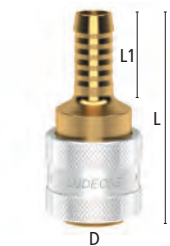
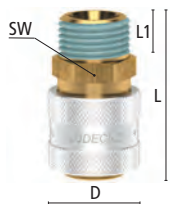
Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	45.5	22	27	10.5	96	ESK 14 I
G 3/8 f	45.5	22	27	10.5	90	ESK 38 I
G 1/2 f	47	24	27	12	90	ESK 12 I

Couplings with hose barb

Thread connection	L	D	L1	Weight	Type No.
Hose i.D. 6	59.5	27	25	69	ESK 6 T
Hose i.D. 8	59.5	27	25	73	ESK 8 T
Hose i.D. 10	59.5	27	25	75	ESK 10 T
Hose i.D. 13	59.5	27	25	80	ESK 13 T

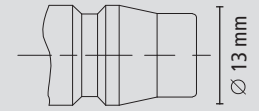
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)



Quick Connect Couplings

single shut-off **Series ESK**

DN7.5



Plug Profile (original size)

Plugs with male thread (Steel hardened and nickel-plated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	37	14	11	20.2	20	ESK 14 NAS
R 3/8 m	38	17	12	20.2	28	ESK 38 NAS
R 1/2 m	41	22	15	20.2	46	ESK 12 NAS

Plugs with female thread (Steel hardened and nickel-plated)

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	34	17	10.5	20.2	25	ESK 14 NIS
G 3/8 f	34	19	10.5	20.2	25	ESK 38 NIS
G 1/2 f	36	24	12	20.2	38	ESK 12 NIS

Plugs with hose barb (Steel hardened and nickel-plated)

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	48	16	25	20.2	21	ESK 6 SS
Hose i.D. 8	48	16	25	20.2	21	ESK 8 SS
Hose i.D. 10	48	16	25	20.2	24	ESK 10 SS
Hose i.D. 13	48	16	25	20.2	24	ESK 13 SS

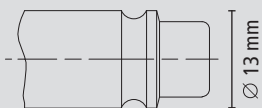
For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)



Industrial Quick Connect Couplings

Series ESAC single shut-off, System "Atlas Copco"

DN8



Plug Profile (original size)

- High-quality, extreme robust one-hand quick connect couplings with superior seal characteristic
- Extremely high flow rate at a low pressure drop due to streamlined valve
- Special versions on request i.e. couplings with straight through or double shut-off
- **For the supply of compressed air in industry and craftsmanship**

Materials

- Body, Valve: Brass MS 58 nickel-plated
- Valve body, plug: Steel hardened and zinc-plated
- Sleeve: Steel hardened and nickel-plated
- O-rings: Buna N (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Work. Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	8	ISO 228 / DIN 2999	1500 l/min	One-Hand	Single Shut-Off	Compr. Air	World-wide	Coupl. 5 / Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	62	19	23	11	105	ESAC 14 A
R 3/8 m	62	19	23	12	108	ESAC 38 A
R 1/2 m	65	22	23	15	130	ESAC 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	59	19	23	10	115	ESAC 14 I
G 3/8 f	59	19	23	10	112	ESAC 38 I
G 1/2 f	61	24	23	12	135	ESAC 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	75	19	23	25	98	ESAC 6 T
Hose i.D. 8	75	19	23	25	100	ESAC 8 T
Hose i.D. 10	75	19	23	25	110	ESAC 10 T
Hose i.D. 13	75	19	23	25	115	ESAC 13 T

For hose clips type ZOS (☉ page 414), type HS (☉ page 415) or crimping ferrules type LPH (☉ page 418)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m	39	14	9	24.5	22	ESAC 18 NAS
R 1/4 m	42	14	12	24.5	25	ESAC 14 NAS
R 3/8 m	42	17	12	24.5	35	ESAC 38 NAS
R 1/2 m	47	22	17	24.5	45	ESAC 12 NAS

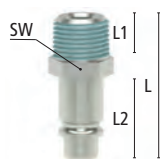
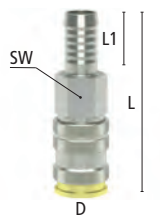
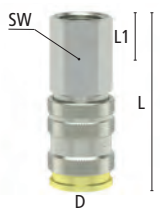
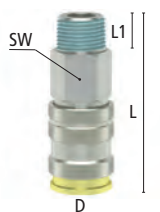
Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	37	14	9	24.5	26	ESAC 18 NIS
G 1/4 f	37	17	9	24.5	26	ESAC 14 NIS
G 3/8 f	37	19	9	24.5	26	ESAC 38 NIS
G 1/2 f	40	24	12	24.5	38	ESAC 12 NIS

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	52	14	25	24.5	18	ESAC 6 SS
Hose i.D. 8	52	14	25	24.5	19	ESAC 8 SS
Hose i.D. 10	52	15	25	24.5	21	ESAC 10 SS
Hose i.D. 13	52	15	25	24.5	26	ESAC 13 SS

For hose clips type ZOS (☉ page 414), type HS (☉ page 415) or crimping ferrules type LPH (☉ page 418)



Industrial Quick Connect Couplings

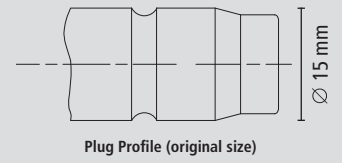
single shut-off, System "Atlas Copco" Series ESACG

- High-quality, extreme robust one-hand quick connect couplings with superior seal characteristics
- Extremely high flow rate at a low pressure drop due to streamlined valve and optimized passage
- For the supply of compressed air in industry and craftsmanship

Materials

- Body: Brass MS 58 nickel-plated
- Valve body: Steel zinc-plated
- Valve, guiding sleeve: Brass MS 58 plain
- Sleeve, plug: Steel hardened and nickel-plated
- O-rings: Buna N (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

DN 10



Max. Work. Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	10	ISO 228 / DIN 2999	2600 l/min	One-Hand	Single Shut-Off	Compr. Air	World-wide	Coupl.5/Plug10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 3/8 m	71	24	27	12.5	162	ESACG 38 A
R 1/2 m	73	24	27	17	165	ESACG 12 A
R 3/4 m	73	27	27	17	194	ESACG 34 A

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 3/8 f	65	24	27	11	164	ESACG 38 I
G 1/2 f	65	24	27	12	154	ESACG 12 I
G 3/4 f	69	32	27	16	219	ESACG 34 I

Couplings with hose barb

Hose connection	SW	L	D	L1	Weight	Type No.
Hose i.D. 8	85	24	27	25	158	ESACG 8 T
Hose i.D. 10	85	24	27	25	160	ESACG 10 T
Hose i.D. 13	85	24	27	25	165	ESACG 13 T
Hose i.D. 19	85	24	27	25	173	ESACG 19 T

For hose clips type ZOS (☉ page 414), type HS (☉ page 415) or crimping ferrules type LPH (☉ page 418)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 3/8 m	46	19	12	28	41	ESACG 38 NAS
R 1/2 m	52	22	17	28	64	ESACG 12 NAS
R 3/4 m	54	27	19	28	85	ESACG 34 NAS

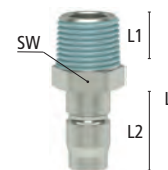
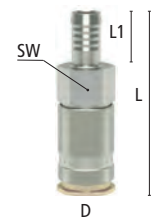
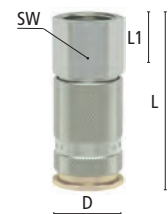
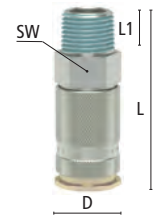
Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 f	40	19	9	28	32	ESACG 38 NIS
G 1/2 f	44	24	12	28	51	ESACG 12 NIS
G 3/4 f	49	32	16	28	100	ESACG 34 NIS

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 8	55	15	24	28	28	ESACG 8 SS
Hose i.D. 10	55	15	25	28	26	ESACG 10 SS
Hose i.D. 13	55	15	25	28	30	ESACG 13 SS
Hose i.D. 16	55	18	25	28	35	ESACG 16 SS

For hose clips type ZOS (☉ page 414), type HS (☉ page 415) or crimping ferrules type LPH (☉ page 418)

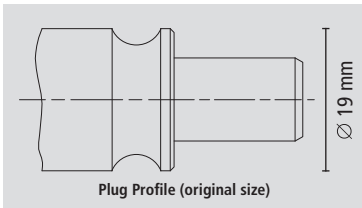


Quick Connect Couplings

Series F1K made of Steel - single shut-off

DN8

- Extreme robust quick connect couplings for hardest working conditions i.e. in foundries
- **Materials**
- Body, sleeve, valve body, plug: Steel zinc-plated and yellow passivated (free of chrome VI)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Valve: Brass MS 58 plain
- O-rings: Buna N



Max. Work. Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	8	ISO 228	1800 l/min	Two-Hand	Single Shut-Off	Compr. Air	Germany	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 3/8 m	67	24	37	10	240	F 1 K
G 1/2 m	67	24	37	10	245	F 12 K

Male thread sealing with PVC-packing rings type HPD (☺ page 231)

Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 m	51	19	10	32	54	F1K 38 G

Male thread sealing with PVC-packing rings type HPD (☺ page 231)

Plugs with female thread

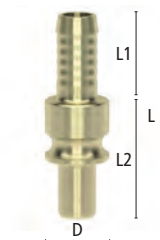
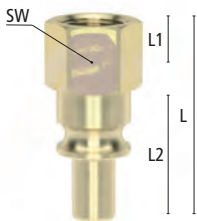
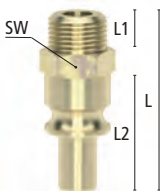
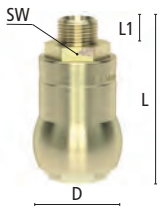
Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	51	19	13	34	60	F1K 14 GI
G 3/8 f	51	22	13	34	69	F1K 38 GI

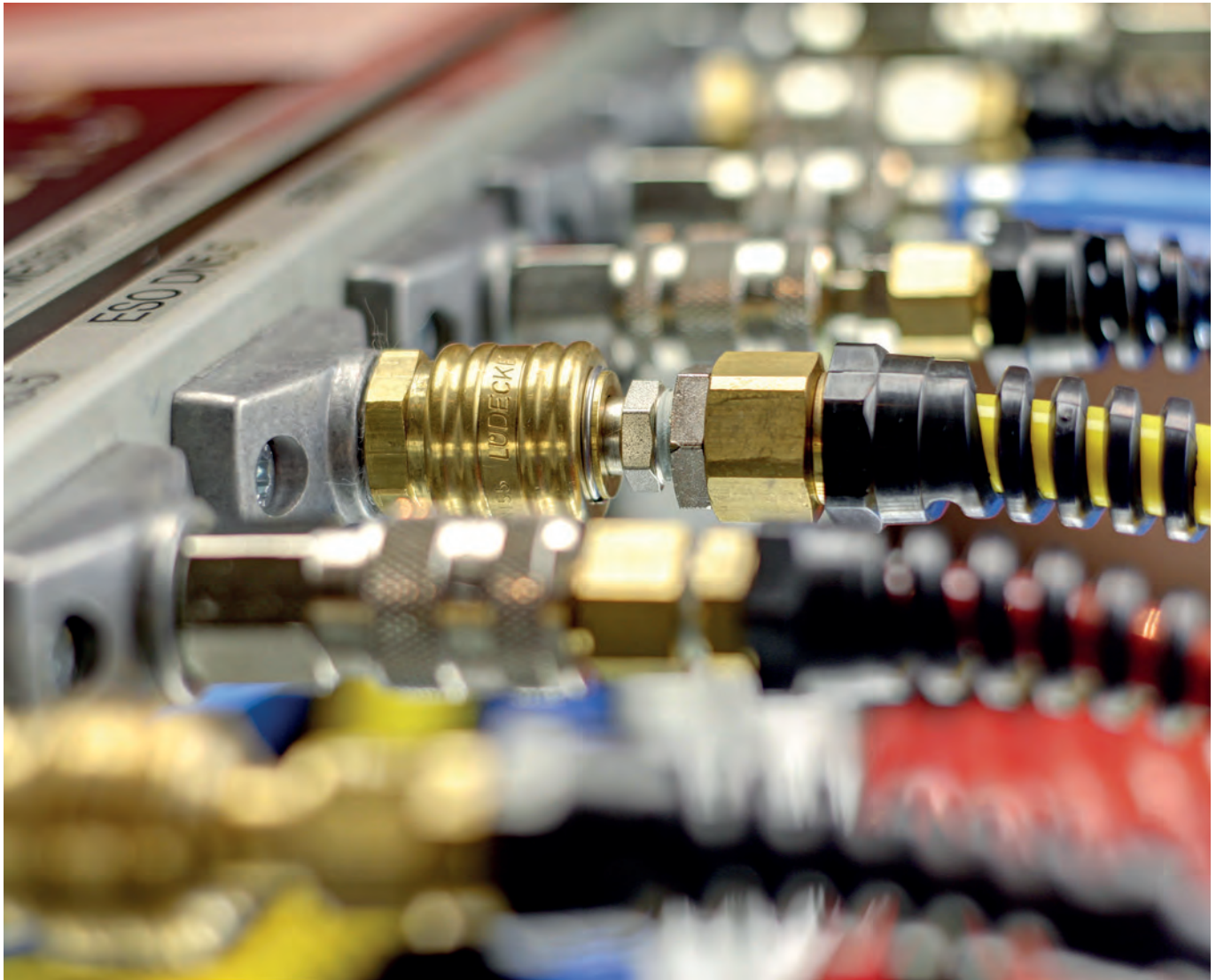
Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	60	19	25	32	39	F1K 6 S
Hose i.D. 9	60	19	25	32	39	F1K 9 S
Hose i.D. 11	60	19	25	32	43	F1K 11 S
Hose i.D. 13	60	19	25	32	45	F1K 13 S

For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)

Special versions on request.







Pneumatic Accessories

Additional to our coupling systems we offer a wide range of pneumatic accessories.

MODY Spiral Hoses made of Polyurethane



MODY spiral hoses have excellent material characteristics for a flexible supply of compressed air. Even after worst deformation the MODY spiral hose returns into its original shape. Despite their wide range, the spiral hoses take a significant part to the safety during work. We recommend the assembly on the ceiling and the use of high quality, retractable and rotatable fittings with bend and scratch protection spring.

Blow-off Valves and Guns



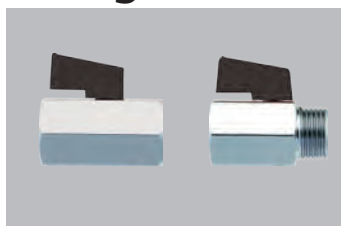
For thorough and fast cleaning or drying of work pieces and working places, compressed air blow-off guns and valves are used. Various types of nozzles offer the right dosage, the required air volume as well as the necessary noise reduction. For flexible use, a combination with MODY spiral hoses is recommended.

Pneumatic Fittings



We offer an extensive range of connecting fittings made of brass for various fields and applications.

Hexagon Ball Valves



Ball valves serve as shut-off fittings in pipe-systems for compressed air and other media. They are especially suitable for the application in the industry. They seal through PTFE-shells. Due to the compact control lever miniature ball-valves enable the usage in reduced spaces.

Hose Clamps, Hose Clips, Ferrules

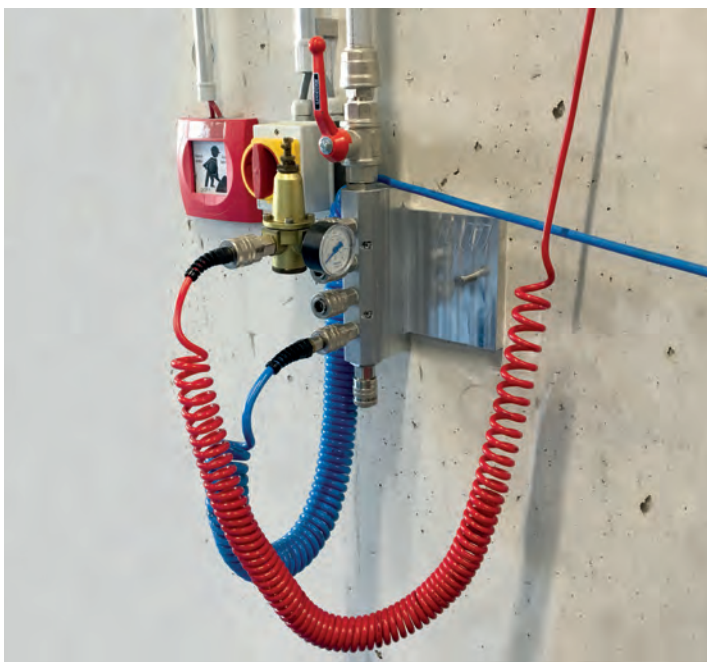


For hose assembly of fittings different assembly methods from strong clamps to light clips or ferrules can be used subject application, media, pressure or hose material. Selection criterias are: safety, removable or non-removable, quickness, necessary devices (i.e. crimping machine), cleanliness or injury risk free.



MODY Spiral Hoses made of Polyurethane

Quality makes the Difference



The polyurethane hoses are indispensable to any industrial undertaking. These multifunctional products exist in various colours, shapes, styles including material characteristics, and make conveying of diverse media possible in the chosen operational area.

Although it sounds so plain and simple, when selecting a suitable product and/ or supplier, certain criteria should be taken into consideration. Because a polyurethane hose is not equally a polyurethane hose.

We explain, when you choose a **LUDECKE** polyurethane spiral hose, why you can always imagine being on the safe side and which parameters should be considered when purchasing.

Why a MODY Spiral Hose from **LUDECKE** ?

- Flexible supply of media: The hose returns to its original shape even after extreme deformation (extreme, enduring coil memory)
- Space saving despite a long range
- Best mechanical properties: high resistance to abrasion, pressure, wear and kinking
- Free of plasticisers, heavy metals and silicon, recyclable, resistant to oil, antifreeze and fuels
- Various sizes for diverse operations (pneumatics, automation, food and pharmaceutical industries, tunneling, craftsmanship, etc.)

First-class Suppliers	Premium Materials	In-house Production	Selection & Service
<ul style="list-style-type: none"> • Accredited suppliers from Germany • Quality, service and sustainability • Profound know-how and problem solving competence • Optimized manufacturing 	<ul style="list-style-type: none"> • Carefully selected raw material • Narrowest manufacturing tolerances • Strict calibration • Adapted to all needs: Polyester based – Polyether based 	<ul style="list-style-type: none"> • Superior production machinery • Qualified employees • Continuous quality surveillance • Permanent market orientation • High flexibility 	<ul style="list-style-type: none"> • Various materials, lengths, diameters, colours, connections • From straight meter goods to complete blow-off sets • Individual custom-made productions



First-class Suppliers

We obtain our extruded hoses from selected and accredited suppliers from Germany. We place great value in our long-standing, trustworthy business relationship as well as the quality, service and sustainability. The production, relevant processing parameters including the complete machine park and the responsible personnel are trained and optimized to the best possible measures. Profound know-how and problem solving competence is a top priority!

Premium Materials

Raw Material

We only use high-quality hoses made of elastollan. This offers the best mechanical properties (especially a very high pressure resistance over a wide temperature span), including excellent permanent use attributes. Many producers from the Far East cannot reach this high quality level and most often use a so-called "re-granulate" (multiply processed raw material). Thereby, essentially decreasing the mechanical properties of the hose (meaning the pressure resistance especially by high temperatures, abrasion, coil memory, etc.).

Production Tolerances

All materials succumb to the narrowest production tolerances. The strict compliance to these tolerances guarantee the usage of the product over the total length of the hose for the respective application. Individual production tolerances can be requested and adapted subject to required quantity.

Calibration

We pay close attention to calibrate the outer diameter and wall thickness of every individual hose. The **LUDECKE** MODY spiral hoses can therefore be used with diverse plug and screwing connections. Even the ovality (roundness) of the hose allows for tight connections. Therewith, we guarantee a consistent high pressure resistance comparatively to large inner diameters.

Adapted to all needs: Polyester based - Polyether based

In order to meet all requirements and dispose every customer of the optimum product, **LUDECKE** offers two different polyurethane materials: polyester based polyurethane and polyether based polyurethane. The main difference lies in the different molecular structure.

Polyester based Polyurethane

- For conventional indoor compressed air applications
- Best mechanical properties and very high pressure resistance over a wide temperature range (-35°C - +80°C)
- Very flexible with great coil memory
- Free of plasticisers
- Highly resistant against ultimate elongation and abrasion
- Suitable for vacuum applications
- Suitable for application as a cable carrier

Polyether based Polyurethane

- For applications with liquid media, outdoor applications as well as for food and medical applications*
- Resistant to hydrolysis and microbes, good resistance against many chemical contact agents
- Very flexible with great coil memory
- Free of plasticisers
- Highly resistant against ultimate elongation and abrasion
- Suitable for cable bundling, especially in conjunction with flame guarded cable installations
- Suitable for application as a cable carrier

*please control separately



In-house Production



LUDECKE has its own spiral hose fabrication since over a decade.

Which means: we not only produce our polyurethane spiral hoses with our well trained and qualified personnel ourselves, we also test them at the end according to very strict criteria.

Only when a hose meets all of the high quality requirements, will it be taken in to our stock. Through our in-house fabrication, we are capable to quickly react to our customer's requests.



Quality and Own Production:

LUDECKE offers premium materials, high-valued production machinery and qualified employees. In addition we continually orientate ourselves to the latest requirements and trends on the market. For that reason, we can always make top products available. Engineered and Made in Germany remains our promise.



Selection & Service

At **LUDECKE** you receive the MODY spiral hoses in various versions: there are a variety of materials, hose lengths, hose diameters, colours, and connections available. In addition we offer all the hoses straight, non-spiralled available in meter lengths. Furthermore, our range covers a wide assortment of supplementary accessories (i.e. thread screws, quick connect couplings, plugs, blow-off guns and valves). We are happy to produce complete blow-off sets on request.

Our competent sales and technical team are always at your disposal for any further questions you may have for a custom fabrication.



MODY Spiral Hoses made of Polyurethane

both Sides with Straight Ends

- High abrasion, pressure and wear resistance
- Extreme and constant recoil of the spiral, small coil diameter
- Elasticity, flexibility and bend stability
- Softener and metal free
- Absolutely silicon-free; recyclable, gas, oil and antifreeze resistant
- Exactly adapted assortment of reusable connections
- Space-saving despite of enormous reach
- Clean, safe and easy to store in individual packing
- **Application: On air tools, assembly lines**
- **In pneumatics, automation, measuring and control technique, car industry, instrument making, mechanical engineering, garages, and more.**
- Also suitable for other fluids (on request)



MODY Spiral Hoses with Swivelling Screwings on both sides assembled

Hose i.D./o.D.	Hose Length		Outer Spiral Ø				Weight	Thread	
	Max. Working L.	Block Length		Type No. blue	Type No. yellow	Type No. red			
4/6	3000	4500	370	33	PUB 463 DVK	PUG 463 DVK	PUR 463 DVK	310	R 1/4 m
4/6	6000	7500	480	33	PUB 466 DVK	PUG 466 DVK	PUR 466 DVK	350	R 1/4 m
5/8	3000	4500	320	36	PUB 583 DVK	PUG 583 DVK	PUR 583 DVK	380	R 1/4 m
5/8	6000	7500	610	36	PUB 586 DVK	PUG 586 DVK	PUR 586 DVK	500	R 1/4 m
6.5/10	3000	4500	320	52	PUB 65103 DVK	PUG 65103 DVK	PUR 65103 DVK	500	R 1/4 m
6.5/10	6000	7500	550	52	PUB 65106 DVK	PUG 65106 DVK	PUR 65106 DVK	690	R 1/4 m
6.5/10	8000	10000	660	52	PUB 65108 DVK	PUG 65108 DVK	PUR 65108 DVK	800	R 1/4 m
8/12	3000	4500	270	65	PUB 8123 DVK	PUG 8123 DVK	PUR 8123 DVK	650	R 3/8 m
8/12	6000	7500	550	65	PUB 8126 DVK	PUG 8126 DVK	PUR 8126 DVK	1030	R 3/8 m
8/12	8000	10000	620	65	PUB 8128 DVK	PUG 8128 DVK	PUR 8128 DVK	1150	R 3/8 m
9/13	3000	4500	280	68	PUB 9133 DVK	PUG 9133 DVK	PUR 9133 DVK	670	R 3/8 m
9/13	6000	7500	500	68	PUB 9136 DVK	PUG 9136 DVK	PUR 9136 DVK	1080	R 3/8 m
9/13	8000	10000	700	68	PUB 9138 DVK	PUG 9138 DVK	PUR 9138 DVK	1260	R 3/8 m
11/16	3000	4500	270	90	●PUB 11163 DVS	PUG 11163 DVS	PUR 11163 DVS	1150	R 1/2 m
11/16	6000	7500	540	90	●PUB 11166 DVS	PUG 11166 DVS	PUR 11166 DVS	1840	R 1/2 m
11/16	8000	10000	600	90	●PUB 11168 DVS	PUG 11168 DVS	PUR 11168 DVS	2053	R 1/2 m
13/19	3000	4500	300	125	●PUB 13193 SVS	PUG 13193 SVS		1230	R 3/4 m
13/19	6000	7500	480	125	●PUB 13196 SVS	PUG 13196 SVS		1940	R 3/4 m
13/19	8000	10000	550	125	●PUB 13198 SVS	PUG 13198 SVS		2410	R 3/4 m

Hose i.D./o.D. 4/6; 5/8; 6.5/10 with new material quality for more flexibility at best pressure and temperature characteristics!

- NW/AD 4/6 with mini quick connect coupling and plug DN 5 mini
- NW/AD 11/16 with spring of nickel-plated steel
- NW/AD 13/19 with rigid fitting and spring of nickel-plated steel



Polyurethane Hoses, non spiralled (minimum quantity 10m/type)

Hose i.D./o.D.	Weight g/m	Type No. blue	Type No. yellow	Type No. red
4/6	20	PUB 46-R	PUG 46-R	PUR 46-R
5/8	40	PUB 58-R	PUG 58-R	PUR 58-R
6.5/10	55	PUB 6510-R	PUG 6510-R	PUR 6510-R
8/12	80	PUB 812-R	PUG 812-R	PUR 812-R
9/13	90	PUB 913-R	PUG 913-R	PUR 913-R
11/16	130	PUB 1116-R	PUG 1116-R	PUR 1116-R
13/19	175	PUB 1319-R	PUG 1319-R	

Materials

- Hose: Polyurethane (Polyester Polyurethane)
- Spring: Polyamide/Steel
- Screwing: Brass MS 58 plain, thread coated/ Steel nickel-plated
- Quick Connect Coupling: Brass MS 58 plain
- Plug: Steel hardened and nickel-plated

Max. Work. Pressure	Temperature	Media	Colours	Short End	Long End	
PN 10 bar	-20°C – +85°C	Compr. Air u.a.	blue, yellow, red	100	500	1



MODY Spiral Hoses with Swivelling One-Hand Quick Connect Couplings and Plug DN 7.2 assembled

MODY Spiral Hoses without Fittings

Type No. blue	Type No. yellow	Type No. red	Weight	Type No. blue	Type No. yellow	Type No. red	Weight
●PUB 463 ESM	PUG 463 ESM	PUR 463 ESM	310	PUB 463	PUG 463	PUR 463	230
●PUB 466 ESM	PUG 466 ESM	PUR 466 ESM	340	PUB 466	PUG 466	PUR 466	260
PUB 583 ES	PUG 583 ES	PUR 583 ES	420	PUB 583	PUG 583	PUR 583	280
PUB 586 ES	PUG 586 ES	PUR 586 ES	550	PUB 586	PUG 586	PUR 586	400
PUB 65103 ES	PUG 65103 ES	PUR 65103 ES	545	PUB 65103	PUG 65103	PUR 65103	370
PUB 65106 ES	PUG 65106 ES	PUR 65106 ES	730	PUB 65106	PUG 65106	PUR 65106	560
PUB 65108 ES	PUG 65108 ES	PUR 65108 ES	850	PUB 65108	PUG 65108	PUR 65108	680
PUB 8123 ES	PUG 8123 ES	PUR 8123 ES	690	PUB 8123	PUG 8123	PUR 8123	470
PUB 8126 ES	PUG 8126 ES	PUR 8126 ES	1070	PUB 8126	PUG 8126	PUR 8126	850
PUB 8128 ES	PUG 8128 ES	PUR 8128 ES	1190	PUB 8128	PUG 8128	PUR 8128	980
PUB 9133 ES	PUG 9133 ES	PUR 9133 ES	710	PUB 9133	PUG 9133	PUR 9133	504
PUB 9136 ES	PUG 9136 ES	PUR 9136 ES	1120	PUB 9136	PUG 9136	PUR 9136	914
PUB 9138 ES	PUG 9138 ES	PUR 9138 ES	1300	PUB 9138	PUG 9138	PUR 9138	1090
				PUB 11163	PUG 11163	PUR 11163	760
				PUB 11166	PUG 11166	PUR 11166	1370
				PUB 11168	PUG 11168	PUR 11168	1580
				PUB 13193	PUG 13193		807
				PUB 13196	PUG 13196		1510
				PUB 13198	PUG 13198		1960

- For higher volume demands other colours, hose dimensions, hose lengths and spiral diameters - according to your specifications - are possible
- If our standard range doesn't meet your requirements, you can have your own combination of a hose without fittings completely assembled with fittings. The fittings can be added to the hose resp. can be assembled from 10 pcs./type onward in our works.
For assembling we charge fitting. We can't give any guarantee for hoses with fittings not assembled by ourselves.
- Please also note our system supplementions (complete range of quick connect couplings (☺ page 38), pneumatic fittings (☺ page 118) or air guns (☺ page 112).

Necessary data for special versions

Dimensions/ Characteristics:	Fittings:
AL Working Length	Type No. Short End
L 1 Short End	
L 2 Long End	Type No. Long End
D Spiral Diameter	
i.D./o.D. Size of hose	
Colour	
Inscription	

Compressed Air Blow-off Sets

Both Sides with Straight Ends

- MODY spiral hose with one-hand quick connect plug DN 7.2 on short end (10 cm) and Blow-off Gun (type APN or APK) on long end (50 cm) completely assembled
- Extraordinary elasticity and flexibility of the MODY spiral hose
- Space-Saving despite of enormous reach
- Polyamid bend and scratch protection
- Clean and safe stored in individual packing
- High quality, robust and handy Blow-off Guns
- For cleaning of working places and parts in industry, garages, and more

Materials

- Spiral: Polyurethane (Polyester Polyurethane)
- Spring: Polyamide
- Plug: Brass MS 58 plain
- Blow-Off Gun: Aluminium/ plastic

Max. Work. Pressure	Temperature	Media	Colour	Short End	Long End	
PN 10 bar	-10°C – +85°C	Compr. Air	Blue/ Yellow/ Red	100	500	1

MODY-Blow-off Sets blue with Plug DN 7.2 and Blow-off Gun APNO completely assembled



Hose- i.D./o.D.	Connection	Max. Working Length		Block Length		Weight		Type No.
		Hose Length		Outer Spiral	Ø			
5/8	Plug ES DN 7.2	3000	4500	260	36	586		PUB 583 APN
5/8	Plug ES DN 7.2	6000	7500	510	36	710		PUB 586 APN
6.5/10	Plug ES DN 7.2	3000	4500	230	52	702		PUB 65103 APN
6.5/10	Plug ES DN 7.2	6000	7500	490	52	887		PUB 65106 APN

MODY-Blow-off Sets yellow with Plug DN 7.2 and Blow-off Gun APNO completely assembled



Hose- i.D./o.D.	Connection	Max. Working Length		Block Length		Weight		Type No.
		Hose Length		Outer Spiral	Ø			
5/8	Plug ES DN 7.2	3000	4500	260	36	586		PUG 583 APN
5/8	Plug ES DN 7.2	6000	7500	510	36	710		PUG 586 APN
6.5/10	Plug ES DN 7.2	3000	4500	230	52	702		PUG 65103 APN
6.5/10	Plug ES DN 7.2	6000	7500	490	52	887		PUG 65106 APN

MODY-Blow-off Sets red with Plug DN 7.2 and Blow-off Gun APKO completely assembled



Hose- i.D./o.D.	Connection	Max. Working Length		Block Length		Weight		Type No.
		Hose Length		Outer Spiral	Ø			
5/8	Plug ES DN 7.2	3000	4500	260	36	436		PUR 583 APK
5/8	Plug ES DN 7.2	6000	7500	510	36	560		PUR 586 APK
6.5/10	Plug ES DN 7.2	3000	4500	230	52	552		PUR 65103 APK
6.5/10	Plug ES DN 7.2	6000	7500	490	52	737		PUR 65106 APK

Sets with Blow-off Valves or other Blow-off Guns, Nozzles or Connections on request.

MODYFLEX PUR Spiral Hoses made of Polyurethane





Both Sides with Straight Ends

- Robust, extreme durable hose for high working pressure
- Hose of polyurethane, resistant, light and flexible (material extruded of an inner layer, a layer of reinforced braiding and an outer layer, inner and outer layer are made of the same material)
- Extra long straight end for more work flexibility
- For flexibility of compressed air lines on compressed air tools and assembly lines
- Application in pneumatic, automation, measuring and control technology, car industry, instrumentation mechanical engineering, garages, and more

Material

- Spiral: Polyurethane (Polyether Polyurethane, Braid: Dacron Polyester) • Spring: Polyamide
- Screwings: Brass MS 58 plain, thread coated
- Coupling: Brass MS 58 plain • Plug: Steel hardened and nickel-plated

Max. Work. Pressure	Temperature	Media	Colours	Short End	Long End	
PN 14 bar*	-40°C – +70°C	Compr. Air a.o.	Blue transparent**	100	1000	1

Hose i.D./o.D.	Connection	Max. Working Length		Block Length		Weight	
		Hose Length	Hose Length	Outer Spiral	Outer Spiral	Type No.	Type No.
8/12	without	4000	5500	350	65	500	PUC 8124
8/12	without	6000	7000	450	65	850	PUC 8126
 8/12	2 x R 3/8 m swivelling	4000	5500	350	65	650	PUC 8124 DVK ¹
 8/12	2 x R 3/8 m swivelling	6000	7000	450	65	1000	PUC 8126 DVK ¹
 8/12	2 x ES DN 7.2 swivelling	4000	5500	350	65	750	PUC 8124 ES ²
 8/12	2 x ES DN 7.2 swivelling	6000	7000	450	65	1100	PUC 8126 ES ²



1 swivelling thread connections on both sides
 2 with swivelling one-hand quick connect coupling and swivelling plug DN 7.2
 *at 20°C
 **braid is blue

MODYFLEX PUR Polyurethane Hose, non-spiralled (minimum quantity 10 m/ type)

Hose i.D./o.D.	Weight g/m	Type No.
8/12	76	PUC 812



System supplementations

- One-hand quick connect couplings (☺ page 38)
- Pneumatic screwings (☺ page 118)
- Blow-off guns and valves (☺ page 112)

A : S : S Antistatic Spiral Hoses made of Polyurethane

Both Sides with Straight Ends

- All advantages of the MODY spiral hose
- Suitable for explosion proof areas according to guideline 94/9/EG (ATEX)
- Avoids static loadings, surface resistance $\leq 10^6 \Omega$
- Outside calibrated, suitable for push-in fittings
- Microbes-, hydrolysis- and UV-resistant
- Can be used for vacuum applications
- To be used for the production of electronic parts, in surface treatment industry, in mining and tunneling, for transport or assortment of parts

Materials

- Hose: Polyurethane (Polyether Polyurethane)
- Spring: Polyamide
- Screwing: Brass MS 58 plain, thread coated

Max. Work. Pressure	Temperature	Media	Colours	Short End	Long End	
PN 12 bar	-20°C – +85°C	Compr. Air, Water, etc.	Black	100	500	1



Hose i.D./o.D.	Max. Working Length		Block Length		Weight		Type No.
	Connection	Hose Length	Hose Length	Outer Spiral \varnothing	Weight	Weight	
6/8	without	3000	4500	320	36	260	PUAS 683
6/8	without	6000	7500	610	36	380	PUAS 686
6/8	2xR 1/4 m rigid	3000	4500	320	36	380	PUAS 683 SVK
6/8	2xR 1/4 m rigid	6000	7500	610	36	500	PUAS 686 SVK
7.5/10	without	3000	4500	320	52	330	PUAS 75103
7.5/10	without	6000	7500	550	52	520	PUAS 75106
7.5/10	2xR 1/4 m rigid	3000	4500	320	52	470	PUAS 75103 SVK
7.5/10	2xR 1/4 m rigid	6000	7500	550	52	660	PUAS 75106 SVK
9/12	without	3000	4500	270	65	430	PUAS 9123
9/12	without	6000	7500	550	65	810	PUAS 9126
9/12	2xR 3/8 m rigid	3000	4500	270	65	580	PUAS 9123 SVK
9/12	2xR 3/8 m rigid	6000	7500	550	65	960	PUAS 9126 SVK

Other hose dimensions or working lengths on request.

A : S : S Antistatik Polyurethane Hose, non spiralled (minimum quantity 10 m/ type)

Hose i.D./o.D.	Weight g/m	Type No.
6/8	40	PU-AS 68-R
7.5/10	50	PU-AS 7510-R
9/12	70	PU-AS 912-R

System supplement

One-hand quick connect couplings (☺ page 38)

Pneumatic screwings (☺ page 118)

Blow-off guns and valves (☺ page 112)



Flamex-Spark Protecting and Hot Water Spiral Hoses of Polyurethane

Both Sides with Straight Ends

- Spiral hoses of special polyurethane, high quality and extreme robust, resistant against sparks and welding (sparks run down) → offers all advantages of the MODY Spiral Hose
- Fluoride-free, halogen-free, silicon-free, hydrolysis resistant
- Extremely burn resistant, burn classification according to UL 94 =VO
- Outside calibrated, suitable for drag chain, durable
- **Application: For compressed air and water supply under extreme conditions in industry (e.g. on welding robots, plastic injection machines) in garages near welding places, railways, public buildings, machine building**

Materials

- Hose: Polyurethane (Polyether Polyurethane)
- Spring: Polyamide
- Screwing: Brass MS 58 plain, thread coated

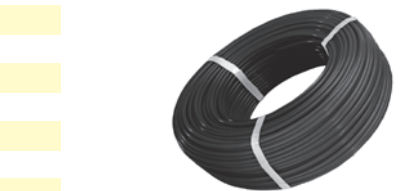
Max. Work. Pressure	Temperature	Media	Colours	Short End	Long End	
PN 12 bar	-20°C – +85°C	Compr. Air, Water, etc.	Black	100	500	1

Hose i.D./o.D.	Connection	Max. Working Length		Block Length		Weight	
		Hose Length		Outer Spiral	Type No.		
6/10	without	3000	4500	320	52	320	PUFS 6103
6/10	without	6000	7500	550	52	500	PUFS 6106
6/10	without	8000	10000	660	52	620	PUFS 6108
6/10	2 x R 1/4 m swiveling	3000	4500	320	52	450	PUFS 6103 DVK
6/10	2 x R 1/4 m swiveling	6000	7500	550	52	630	PUFS 6106 DVK
6/10	2 x R 1/4 m swiveling	8000	10000	660	52	750	PUFS 6108 DVK
8/12	without	3000	4500	275	65	440	PUFS 8123
8/12	without	6000	7500	550	65	720	PUFS 8126
8/12	without	8000	10000	635	65	950	PUFS 8128
8/12	2 x R 3/8 m swiveling	3000	4500	275	65	520	PUFS 8123 DVK
8/12	2 x R 3/8 m swiveling	6000	7500	550	65	800	PUFS 8126 DVK
8/12	2 x R 3/8 m swiveling	8000	10000	635	65	1130	PUFS 8128 DVK



Flamex Polyurethane Hose, non spiralled (minimum quantity 10 m/ type)

Hose i.D./o.D.	Weight g/m	Type No.
6/10	70	FSS 610-R
8/12	95	FSS 812-R



System supplement

- One-hand quick connect couplings (☺ page 38)
- Pneumatic screwings (☺ page 118)
- Blow-off guns and valves (☺ page 112)

MODY Duo Spiral Hoses made of Polyurethane

Both Sides with Straight Ends

- All advantages of the MODY spiral hose
- Easy assembling with swivelling fittings on both sides
- **Application: In fluid-control, on measuring devices, automation, for different media or different compressed air lines combined, etc.**

Materials

- Hose: Polyurethane (Polyether Polyurethane)
- Spring: Polyamide
- Screwing: Brass MS 58 plain, thread coated



Max. Work. Pressure	Temperature	Media	Colours	Short End	Long End	☺
PN 10 bar	-20°C – +85°C	Compr. Air	Blue/Yellow	100	500	1

Hose i.D./o.D.	Max. Working Length		Block Length		Weight		Type No.
	Connection	Hose Length	Hose Length	Outer Spiral \varnothing	Weight	Weight	
6.5/10	without	3000	4500	450	65	750	PUBG 65103
6.5/10	without	6000	7500	770	65	1120	PUBG 65106
6.5/10	4xR 1/4 m swivelling	3000	4500	450	65	1000	PUBG 65103 DVK
6.5/10	4xR 1/4 m swivelling	6000	7500	770	65	1370	PUBG 65106 DVK

MODY Duo Polyurethane Hose, non spiralled (minimum quantity 10 m/ type)

Hose i.D./o.D.	Weight g/m	Type No.
6.5/10	78	PUBG 6510-DUO

System supplement

One-hand quick connect couplings (☺ page 38)

Pneumatic screwings (☺ page 118)

Blow-off guns and valves (☺ page 112)

MODY CleanConnect Spiral Hoses made of Polyurethane with Straight Sides for the Food Industry and Pharmacy

- High-abrasion, pressure and wear resistance as well as extreme and constant recoil of the spirals
- Perfect elasticity, flexibility, can be driven over, crush-resistant, free of taste and smell
- Resistant to microbes and hydrolysis, oil, gas and chemical resistant, good cold flexibility
- Polyurethane food-safe according to FDA 21 CFR 177.2600 and 178.2010, EU regulation 10/2011 and the newest regulation 2015/174
- Approved according to the EU regulation 1935/2004
- Production process according to GMP EC 2023/2006
- For applications in the pneumatic sector as well as for liquids, gases and abrasive solids
- For applications in the food industry (e.g. food conveying, dry, watery, acidic and fatty foods), pharmaceutical industry (FDA, EU regulation)

Materials

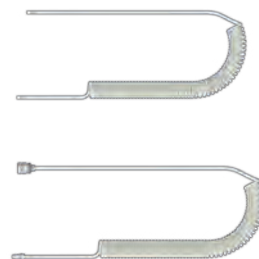
- Hose: Polyurethane (Polyether Polyurethane)
- Coupling, plug: Stainless steel 1.4305

Max. Working Pressure	Temperature	Media	Colours	Short End	Long End	
PN 12 bar	-40°C – +90°C	different	Transparent	100	500	1

Hose i.D./o.D.	Connection	Max. Working L.		Block Length		Weight	
		Hose Length		Outer Spiral	Type. Nr.		
8/12	without	3000	4700	240	75	345	PUL 8123
8/12	without	6000	7600	400	75	555	PUL 8126
8/12	without	8000	9700	540	75	710	PUL 8128
8/12	ESE-coupling + plug	3000	4700	240	75	505	PUL 8123 ESE
8/12	ESE-coupling + plug	6000	7600	400	75	715	PUL 8126 ESE
8/12	ESE-coupling + plug	8000	9700	540	75	870	PUL 8128 ESE

Food-Safe

Clean Connect
by **LUDECKE**



MODY-CleanConnect-Hose of Polyurethane, non-spiraled (minimum quantity 10m/ type)

Hose i.D./o.D.	Weight g/m	Type. Nr.
8/12	80	PUL 812


System supplement

Quick connect couplings made of stainless steel (☺ page 284)

Blow-off valve made of stainless steel (☺ page 303)

Accessories for Mody Spiral Hoses

Hose Pincer and Replacement Blade

Type		Material	Weight	Type No.
Hose Pincer (for o.D. 1-19 mm)	1 (pc.)	steel	242	SZ-PU
Replacement Blade	1 set (2 pc.)	steel	8	MSZ



MODY Spiral Hose Fittings

made of Brass or Steel Nickel-Plated with Hose Strain Relief Guards

- All fittings removable and reusable
- Maximum bore for maximum flow-capacity
- Exactly adapted to PU-dimension and hardness
- Extreme pull and pressure-resistant
- Male threads tapered and environmental friendly Loctite-coated
- One-hand quick connect couplings (standard system DN 7.2 and DN 5)
- Swivelling screwings with double O-ring sealing and circlip, easy to turn under pressure
- All fittings also available with spring of steel on request

Materials

- Screwing: Brass MS 58 plain (thread coated), laminated / steel nickel-plated
- Quick connect couplings: Brass MS 58 plain
- Plug: Brass MS 58 plain/ steel hardened and nickel-plated
- Spring: Polyamide / stainless steel 1.4310

Max. Work. Pressure	Temperature	Thread	Media	
PN 15 bar	-40°C – +85°C	ISO 228 / DIN 2999	Compr. Air a.o.	5

Swivelling Squeeze Screwings with tapered male thread (coated) and hose strain relief guards

Thread Connection	For hose i.D./o.D.	Passage	Material	Weight	Type No.
R 1/4 m	4/6	3	Brass MS 58	43	DVK 4614
R 1/4 m	5/8	4.5	Brass MS 58	53	DVK 5814
R 1/4 m	6.5/10	5.5	Brass MS 58	64	DVK 651014
R 1/4 m	8/12	7	Brass MS 58	88	DVK 81214
R 3/8 m	8/12	7	Brass MS 58	88	DVK 81238
R 3/8 m	9/13	8	Brass MS 58	82	DVK 91338
R 1/2 m	11/16	10	Steel	239	DVS 111612*

Swivelling Squeeze Screwings with parallel female thread and hose strain relief guards

Thread Connection	For hose i.D./o.D.	Passage	Material	Weight	Type No.
G 1/4 f	5/8	4.5	Brass MS 58	58	DVK 5814 I
G 1/4 f	6.5/10	5.5	Brass MS 58	70	DVK 651014 I
G 3/8 f	8/12	7	Brass MS 58	80	DVK 81238 I
G 3/8 f	9/13	8	Brass MS 58	74	DVK 91338 I
G 1/2 f	11/16	10	Steel	254	DVS 111612 I*

Rigid Squeeze Screwings with tapered male thread (coated) and hose strain relief guards

Thread Connection	For hose i.D./o.D.	Passage	Material	Weight	Type No.
R 1/4 m	4/6	3	Brass MS 58	25	SVK 4614
R 1/4 m	5/8	4.5	Brass MS 58	29	SVK 5814
R 1/4 m	6.5/10	5.5	Brass MS 58	43	SVK 651014
R 1/4 m	8/12	7	Brass MS 58	56	SVK 81214
R 3/8 m	8/12	7	Brass MS 58	63	SVK 81238
R 3/8 m	9/13	8	Brass MS 58	59	SVK 91338
R 1/2 m	11/16	10	Steel	171	SVS 111612*
R 1/2 m	13/19	12	Steel	205	SVS 131912*
R 3/4 m	13/19	12	Steel	210	SVS 131934*

On request also available in stainless steel 1.4305 against extra charge

Rigid Squeeze Screwings with parallel female thread and hose strain relief guards

Thread Connection	For hose i.D./o.D.	Passage	Material	Weight	Type No.
G 1/4 f	4/6	3	Brass MS 58	25	SVK 4614 I
G 1/4 f	5/8	4.5	Brass MS 58	31	SVK 5814 I
G 1/4 f	6.5/10	5.5	Brass MS 58	48	SVK 651014 I
G 3/8 f	8/12	7	Brass MS 58	66	SVK 81238 I
G 3/8 f	9/13	8	Brass MS 58	62	SVK 91338 I
G 1/2 f	11/16	10	Steel	180	SVS 111612 I *

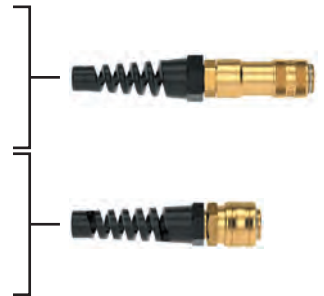
*with spring of steel, male thread not coated





One-Hand Quick Connect Couplings with squeeze screwings and hose strain relief guards

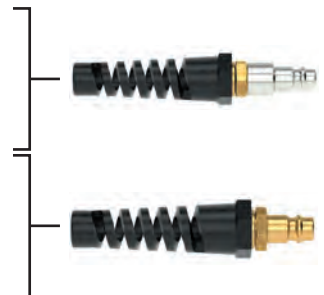
Hose Connection	Connection	Material	Version	Weight	Type No.
swivelling For hose i.D./o.D. 4x6	Coupling ESM DN 5	Brass MS 58	swivelling	55	ESM 4 DVK
swivelling For hose i.D./o.D. 5x8	Coupling ES DN 7.2	Brass MS 58	swivelling	65	ES 5 DVK
swivelling For hose i.D./o.D. 6.5x10	Coupling ES DN 7.2	Brass MS 58	swivelling	111	ES 65 DVK
swivelling For hose i.D./o.D. 8x12	Coupling ES DN 7.2	Brass MS 58	swivelling	115	ES 8 DVK
swivelling For hose i.D./o.D. 9x13	Coupling ES DN 7.2	Brass MS 58	swivelling	131	ES 9 DVK
For hose i.D./o.D. 4x6	Coupling ESM DN 5	Brass MS 58	rigid	45	ESM 4 SVK
For hose i.D./o.D. 5x8	Coupling ES DN 7.2	Brass MS 58	rigid	55	ES 5 SVK
For hose i.D./o.D. 6.5x10	Coupling ES DN 7.2	Brass MS 58	rigid	95	ES 65 SVK
For hose i.D./o.D. 8x12	Coupling ES DN 7.2	Brass MS 58	rigid	103	ES 8 SVK
For hose i.D./o.D. 9x13	Coupling ES DN 7.2	Brass MS 58	rigid	98	ES 9 SVK



One-Hand Quick Connect Plugs with squeeze screwings and hose strain relief guards

Hose connection	Connection	Material	Version	Weight	Type No.
swivelling For hose i.D./o.D. 4/6	Plug ESM DN 5	Hardened steel	swivelling	37	ESM 4 SDVK
swivelling For hose i.D./o.D. 5/8	Plug ES DN 7.2	Hardened steel	swivelling	50	ES 5 SDVK
swivelling For hose i.D./o.D. 6.5/10	Plug ES DN 7.2	Hardened steel	swivelling	62	ES 65 SDVK
swivelling For hose i.D./o.D. 8/12	Plug ES DN 7.2	Hardened steel	swivelling	78	ES 8 SDVK
swivelling For hose i.D./o.D. 9/13	Plug ES DN 7.2	Hardened steel	swivelling	75	ES 9 SDVK
For hose i.D./o.D. 4/6	Plug ESM DN 5	Brass MS 58	rigid	17	ESM 4 SSVK*
For hose i.D./o.D. 5/8	Plug ES DN 7.2	Brass MS 58	rigid	34	ES 5 SSVK
For hose i.D./o.D. 6.5/10	Plug ES DN 7.2	Brass MS 58	rigid	46	ES 65 SSVK
For hose i.D./o.D. 8/12	Plug ES DN 7.2	Brass MS 58	rigid	59	ES 8 SSVK
For hose i.D./o.D. 9/13	Plug ES DN 7.2	Brass MS 58	rigid	57	ES 9 SSVK

*Plug ESM 4 SSVK nickel-plated



Squeeze Screwings for connections of MODY spiral hoses (only in connection or in exchange for original **LUDECKE** MODY spiral hoses!) with compressed air lines or tools.



Compressed Air Blow-off Valves

made of Aluminium/ Brass - Standard Version

- Robust valves for continuous use under extreme conditions
- For cleaning of work spaces or parts in industry, craftsmanship, garages, foundries, etc

Materials

- Blow-off valves: Aluminium/ Brass MS 58 plain
- Nozzle: Steel zinc-plated

Max. Working Pressure	Temperature	Thread	Media	
PN 12 bar	-20°C – +100°C	ISO 228	Compressed Air	5

Compressed Air Blow-off Valves of aluminium



Connection	L	D	Version	Connection Nozzle	Nozzle bore	Weight	Type No.
G 1/4 f	108	22	with nozzle H2	G 3/8 f	2	110	AHL 14 I
Hose i.D. 6	115	22	with nozzle H2	G 3/8 f	2	104	AHL 6
Hose i.D. 9	115	22	with nozzle H2	G 3/8 f	2	105	AHL 9
Hose i.D. 13	115	22	with nozzle H2	G 3/8 f	2	108	AHL 13
Hose i.D. 15	115	22	with nozzle H2	G 3/8 f	2	111	AHL 15

For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)

Compressed Air Blow-off Valves of brass



Connection	L	D	Version	Connection Nozzle	Nozzle bore	Weight	Type No.
Hose i.D. 6	115	22	with nozzle H2	G 3/8 f	2	206	AHM 6
Hose i.D. 9	115	22	with nozzle H2	G 3/8 f	2	210	AHM 9
Hose i.D. 11	115	22	with nozzle H2	G 3/8 f	2	217	AHM 11
Hose i.D. 13	115	22	with nozzle H2	G 3/8 f	2	219	AHM 13
G 1/4 m	115	22	with nozzle H2	G 3/8 f	2	209	AHM 14

For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)

Compressed Air Blow-off Valves of Aluminium or Brass - Long ergonomic version



Thread connection	L	D	L1	Version	Connection Nozzle	Material	Weight	Type No.
G 3/8 f	-	22	105	w/o nozzle (G 3/8 i)	G 3/8 f	Aluminium	95	AHL 38 IL
G 3/8 f	152	22	105	w nozzle LSD 38	G 3/8 f	Aluminium/ Brass	164	AHL 38 IL-LSD
G 3/8 f	152	22	105	w nozzle LSD 38	G 3/8 f	Brass	279	AHM 38 IL-LSD

Connections with male thread stems type T...M hose i.D. 6-13 mm

Nozzles and Spare Parts

for Compressed Air Blow-off Valves Type AHL / AHM

- Multi-function nozzle
 - 20 % more blow-effect at same air consumption as standard nozzle
 - Safety function (air shield against back-whirling dirt)
 - Injector function
 - Noise reduction to 83 DB
 - Fulfills US-safety norm OSHA

- Further nozzles and spare parts

Max. Working Pressure	Temperature	Thread	Media	
PN 12 bar	-20°C – +100°C	ISO 228 / DIN 13	Air a.o.	10

Multi-function nozzle for compressed air blow-off valves type AHL/ AHM

Thread connection	Nozzle bore	Material	Weight	Type No.
G 3/8 m	1.5 mm	Steel	41	MFD 2

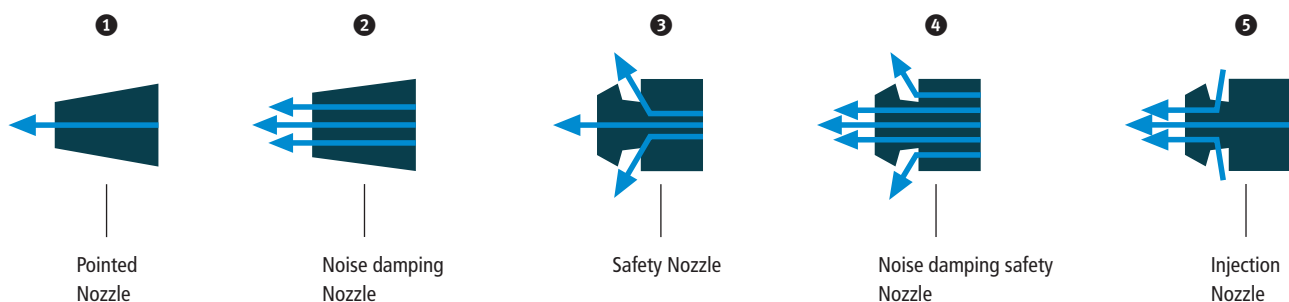


Nozzles with male thread G 3/8"m for compressed air blow-off valves type AHL/M

Characteristics	Material	Weight	Type No.
① Pointed nozzle	Steel	30	Düse H2
② Noise damping nozzle	Steel	23	Düse GD2
③ Safety nozzle	Steel	45	Düse SD2
④ Noise damping safety nozzle	Steel	44	Düse GSD2
⑤ Injection nozzle	Steel	45	Düse J2
Extension nozzle	Steel	35	Düse VD2
Noise damping nozzle	Brass MS 58	69	LSD 38

Spare parts for blow-off valves type AHL/M

Characteristics	Type No.
Valve pin with O-Ring	AH-VSTIFT
Valve with spring	AH-AVKO
Handle	AH-HEBEL
Connection stem 6-15 mm Alu	TÜLLE AT..L
Connection stem 6-15 mm Brass MS 58	TÜLLE AT..M



Compressed Air Blow-off Valves

made of Aluminium Large Bore Version

- Nozzle bore 8 mm for multiple flow capacity i.e. for cleaning of heavy castings
- For cleaning of working areas and parts in industry, craftsmanship, garages, etc.

Materials

- Blow-off valves: Aluminium
- Nozzle: Aluminium



Max. Working Pressure	Temperature	Media	⊗
PN 12 bar	-20°C – +100°C	Compressed Air, Water	5

Compressed Air Blow-off Valves made of Aluminium

Hose connection	L	D	Nozzle bore	Weight	Type No.
Hose i.D. 13	185	35	8	338	AHLG 13
Hose i.D. 19	185	35	8	352	AHLG 19

For hose clips type ZOS (⊗ page 414), type HS (⊗ page 415) or crimping ferrules type LPH (⊗ page 418)

NEW!

Compressed Air Blow-off Valve

made of Stainless Steel

- Blow-off valve made of stainless steel for permanent use under heavy working conditions
- For cleaning of working areas and parts at applications with elevated hygiene regulations

Materials

- Blow-off valve: Stainless steel 1.4305
- Handle: Stainless steel 1.4308

Clean Connect
by **LUDECKE**



Max. Working Pressure	Temperature	Media	⊗
PN 12 bar	-20°C – +100°C	Compressed Air	5

Compressed Air Blow-off Valve made of Stainless Steel

Connection	Version	Nozzle bore	L	D	Weight	Type No.
Plug ESE	with nozzle HE2	2	108	22	277	AHLE ESE

Compressed Air Blow-off Guns

made of Forged Aluminium - Standard Version

- High quality, robust, handy, especially suitable for continuous use
- With long handle, suspension bow and different connections
- For cleaning of working places and parts in industry, craftsmanship, garages, etc.

Materials

- Blow-off Gun: Aluminium
- Valve: Steel zinc-plated

Max. Working Pressure	Temperature	Thread	Media	
PN 12 bar	-20°C –to+100°C	ISO 228 / DIN 13	Compressed Air	5

Blow-off Gun Standard

Connection	L	B	Version	Connection Nozzle	Nozzle bore	Weight	Type No.
G 1/4 f	140	77	w/o valve	M 12x1.25 f	-	222	APN 00
G 1/4 f	160	90	w valve P1	M 12x1.25 f	2	237	APN 0
Hose i.D. 6	175	90	w valve P1	M 12x1.25 f	2	254	APN 6
Hose i.D. 9	175	90	w valve P1	M 12x1.25 f	2	260	APN 9
Hose i.D. 11	175	90	w valve P1	M 12x1.25 f	2	264	APN 11
Hose i.D. 13	175	90	w valve P1	M 12x1.25 f	2	277	APN 13
G 1/4 m	160	90	w valve P1	M 12x1.25 f	2	256	APN 14
ES 14 NA	170	90	w valve P1	M 12x1.25 f	2	259	APN 14 NA



Compressed Air Blow-off Guns

made of Forged Aluminium - Dosage

- Continually dosable (without interruption) air stream for suitable blow-off effect
- High quality, robust, handy, especially suitable for continuous use
- With long handle, suspension bow and different connections
- APND-NA-MFD with plug DN 7.2 at the side to be connected with from top coming hoses assembled with angle coupling DN 7.2 ES..T-90
- For cleaning of working places and parts in industry, craftsmanship, garages, etc.

Materials

- Blow-off Gun: Aluminium
- Valve: Steel zinc-plated

Max. Working Pressure	Temperature	Thread	Media	
PN 12 bar	-20°C – +100°C	ISO 228 / DIN 13	Compressed Air	5

Blow-off Gun Dosage

Connection	L	B	Version	Connection Nozzle	Nozzle bore	Weight	Type No.
G 1/4 f	140	77	w/o valve	M 12x1.25 f	-	222	APND 00
G 1/4 f	160	90	w valve P1	M 12x1.25 f	2	237	APND 0
G 1/4 f	160	90	w MFD 1	M 12x1.25 f	1.5	268	APND 0 MFD
Plug DN 7.2	160	110	w MFD 1	M 12x1.25 f	1.5	290	APND-NA-MFD



Nozzles and Spare Parts

for Compressed Air Blow-off Guns Type APN and APND

- Multi-function nozzle
 - 20% more blow-effect at same air consumption as standard nozzle
 - Safety function (air shield against back-whirling dirt)
 - Injector function
 - Noise reduction to 83 DB
 - Fulfills US-safety norm OSHA
- Further valves, screwings and spare parts

Max. Working Pressure	Temperature	Thread	Media	
PN 12 bar	-20°C – +100°C	ISO 228 / DIN 13	Air a.o.	5/10

Multi function nozzle for compressed air blow-off guns type APN and APND

Thread connection	Nozzle bore	Material	Weight		Type No.
M 12x1.25	1.5	Steel	31	5	MFD 1

Nozzles for Blow-off Guns type APN and APND with male thread M 12 x 1.25

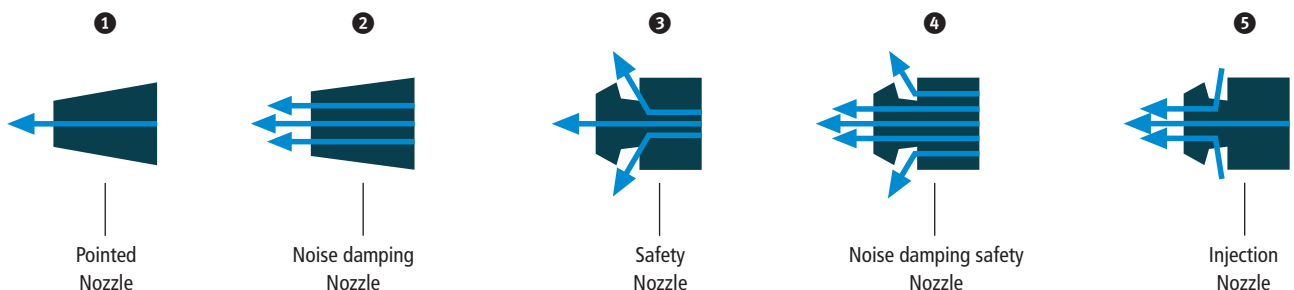
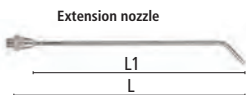
Characteristics	Thread connect.	L	L1	Material		Weight	Type No.
● Pointed nozzle	M 12x1.25 m			Steel	10	20	DÜSE P1
● Noise damping nozzle	M 12x1.25 m			Steel	10	13	DÜSE GD1
● Safety nozzle	M 12x1.25 m			Steel	10	30	DÜSE SD1
● Noise damping safety nozzle	M 12x1.25 m			Steel	10	27	DÜSE GSD1
● Injection nozzle	M 12x1.25 m			Steel	10	31	DÜSE J1
Extension nozzle straight	M 12x1.25 m	160	145	Brass MS nickel-pl	10	25	DÜSE VD1
Extension nozzle curved	M 12x1.25 m	115	100	POM/Steel nickel-pl	5		DÜSE VDG 120
Extension nozzle curved	M 12x1.25 m	160	145	Brass MS nickel-pl	5		DÜSE VDG 165
Extension nozzle curved	M 12x1.25 m	260	245	Brass MS nickel-pl	5		DÜSE VDG 260
Noise damping nozzle	M 12x1.25 m			Die cast zinc	10	59	LSD 125
Adjustable nozzle OSHA/SUVA	M 12x1.25 m			ALU/ POM	5		DÜSE GD1 O

Swivel head screwing for trimming of blow-off nozzles

Thread connection	L	SW	D	L1	L2	Material	Displacement		Weight	Type No.
G 1/4 m - G 1/4 f	53	22	27	9	10	Brass MS 58 plain	aprox. 47°	10	104	KGV 14

Spare Parts for compressed air Blow-off Guns type APN

Characteristics		Type No.
Valve pin with O-ring	10	APN-VSTIFT
Valve with spring	10	APN-PVK
Handle	10	APN-HEBEL
Plug with O-ring	10	APN-STOPFEN



Compressed Air Blow-off Guns

made of Plastic

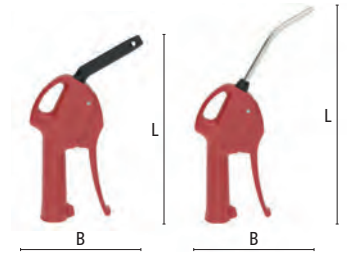
- Blow-off gun of robust, scratchproof, isolating and nonslip composite material
- Perfectly fitted to the shape of the hand and therefore particularly ergonomic
- Input connector meshed with brass insert: complete safety and tightness when mounting
- Targeted jet, nozzle angle and natural alignment of the air jet enable precise working
- Fine dosing, for precise adjustment of the jet only a small amount of operation force is needed
- Absolutely tight system, thus no foreign bodies are able to intrude and block the mechanism
- Smooth surface without irregularities, therefore no dust deposits on the nozzle and body are possible
- 2 possibilities for hanging , safe and practical
- For cleaning of working places and parts in industry, craftsmanship, garages, etc.

Materials

- Body: Plastic • Incoming connection: Brass
- Nozzle: Direct blow-off nozzle - steel, OSHA nozzle - composite material

Max. Work. Pressure	Temperature	Thread	Media	
PN 10 bar	-15°C – +70°C	ISO 228	Compressed Air	5

Connection	L	B	Nozzle bore	Weight	Type No.
G 1/4 f	164	200	6	110	APK 0
Plug DN 7.2	164	200	6	110	APK 14 NA
G 1/4 f	140	168	12	110	APK 0-OSHA
Plug DN 7.2	140	168	12	110	APK-OSHA 14 NA



Compressed Air Blow-off Guns

made of Die Cast Zinc

NEW!

- Blow-off made of die cast zink/ aluminium
- Nozzle with "Coanda Effect" produces exceptional air stream
- According to OSHA
- Safe and practical hanging possibilities
- For cleaning of working places and parts in industry, craftsmanship, garages, etc.

Materials

- Compressed air blow-off gun: Die cast zinc
- Nozzle: Aluminium

Max. Working Pressure	Temperature	Thread	Media	
PN 10 bar	0°C – +80°C	ISO 228	Compressed Air	1

Connection	L	B	T	Nozzle bore	Weight	Type No.
G 1/4 f	265	180	32	UNS 1/2 - 27 f	285	APT 0
DN 7.2 nickel-plated	265	180	32	UNS 1/2 - 27 f	307	APT 14 NA



Pneumatic Fittings

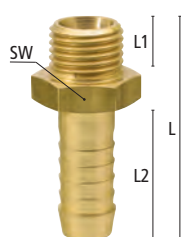
made of Brass Plain

- For fluid-control, compressed air, automation, measure-, control- and regulation technique, welding, etc.

Pneumatic 1/3-Screwings

Materials

- Screwings: Brass MS 58 plain



Max. Working Pressure	Thread	Media	
PN 12 bar	ISO 228	Compressed air, Gas u.a	10

Thread stem with parallel male thread and inner cone 37°

Thread connection	Hose connection	L	SW	L1	L2	Bore	Weight	Type No.
G 1/8 m	Hose i.D. 6	37	13	7	25	5	12	T 186 M
G 1/8 m	Hose i.D. 9	37	13	7	25	5	20	T 189 M
G 1/4 m	Hose i.D. 6	39	17	9	25	5	19	T 146 M
G 1/4 m	Hose i.D. 8	39	17	9	25	6	21	T 148 M
G 1/4 m	Hose i.D. 9	39	17	9	25	7	22	T 149 M
G 1/4 m	Hose i.D. 11	39	17	9	25	8	26	T 1411 M
G 1/4 m	Hose i.D. 13	39	17	9	25	8	34	T 1413 M
G 3/8 m	Hose i.D. 6	40	19	10	25	5	25	T 386 M
G 3/8 m	Hose i.D. 8	40	19	10	25	6	27	T 388 M
G 3/8 m	Hose i.D. 9	40	19	10	25	7	28	T 389 M
G 3/8 m	Hose i.D. 11	40	19	10	25	8	33	T 3811 M
G 3/8 m	Hose i.D. 13	40	19	10	25	9.5	36	T 3813 M
G 1/2 m	Hose i.D. 6	40	24	10	25	5	37	T 126 M
G 1/2 m	Hose i.D. 9	40	24	10	25	7	41	T 129 M
G 1/2 m	Hose i.D. 13	40	24	10	25	11	44	T 1213 M
G 3/4 m	Hose i.D. 9	56	27	16	32	13	125	T 3419 TM*
G 1 m	Hose i.D. 25	70	36	17	41	20	210	T 1025 TM*

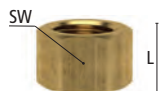
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418) Thread sealing with PVC-packing rings type HPD (☺ page 231)

*without inner cone

Pneumatic 2/3-Screwings

Materials

- Screwings: Brass MS 58 plain

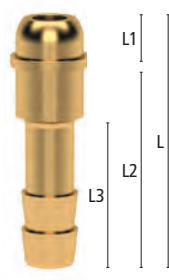


Max. Working Pressure	Thread	Media	
PN 12 bar	ISO 228	Compressed air, Gas u.a	10

Hexagon nut

Thread connection	L	SW	Bore	Gewicht	Type No.
G 1/8 f	12	13	7.2	13	U 18 M
G 1/4 f	14	17	10.6	16	U 14 M
G 3/8 f	15	19	13	15	U 38 M
G 1/2 f	16	24	15.5	28	U 12 M

Thread Stems with male thread for hexagon nut



Hose connection	Version for	L	L1	L2	L3	Bore	Weight	Type No.
Hose i.D. 6	U 18 M	40	4	34	28	4	7	ST 186 M
Hose i.D. 6	U 14 M	42	6	34	28	4	12	ST 146 M
Hose i.D. 9	U 14 M	42	6	34	28	5.5	14	ST 149 M
Hose i.D. 6	U 38 M	47	7	38	28	4	23	ST 386 M
Hose i.D. 9	U 38 M	47	7	38	28	6.5	23	ST 389 M
Hose i.D. 11	U 38 M	47	7	38	28	7	30	ST 3811 M
Hose i.D. 6	U 12 M	47	7	38	29	4	32	ST 126 M
Hose i.D. 9	U 12 M	47	7	38	29	6.5	33	ST 129 M
Hose i.D. 13	U 12 M	47	7	38	29	9	34	ST 1213 M

For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)

Pneumatic Fittings

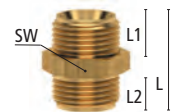
made of Brass Plain

Max. Working Pressure	Thread	Media	☞
PN 12 bar	ISO 228 / DIN 2999	Compressed air, u.a	10

Pneumatic Double Nipples with male thread and inner cone 37°

Thread connection	L	SW	L1	L2	Bore	Weight	Type No.
G 1/8 m - G 1/8 m	19	13	7	7	5	10	D 18 M
G 1/8 m - G 1/4 m	21	17	7	9	5	18	D 84 M
G 1/4 m - G 1/4 m	23	17	9	9	7.5	19	D 14 M
G 1/4 m - G 3/8 m	24	19	9	10	7.5	26	D 48 M
G 1/4 m - G 1/2 m	27	24	9	12.5	7.5	48	D 42 M
G 3/8 m - G 3/8 m	25	19	10	10	9	30	D 38 M
G 3/8 m - G 1/2 m	28	24	10	12.5	9	50	D 82 M
G 1/2 m - G 1/2 m	30	24	12.5	12.5	12	54	D 12 M

Male thread sealing with PVC-packing rings type HPD (☞ page 231)



Pneumatic Reducing Nipples with female thread/ male thread

Thread connection	L	SW	L1	Weight	Type No.
G 1/8 f - G 1/4 m	13	17	9	10	R 84 N
G 1/4 f - G 3/8 m	14	19	10	10	R 48 N
G 1/4 f - G 1/2 m	15	24	11	29	R 42 N
G 3/8 f - G 1/2 m	15	24	11	19	R 82 N
G 1/2 f - G 3/4 m	21	32	14	55	R 24 NM
G 1/2 f - G 1 m	20	36	15	90	R 21 N

Male thread sealing with PVC-packing rings type HPD (☞ page 231)



Pneumatic Hose Menders

Hose connection	L	Bore	Weight	Type No.
Hose i.D. 6	52	4	15	SV 6 M
Hose i.D. 8	52	6	21	SV 8 M
Hose i.D. 9	52	7	25	SV 9 M
Hose i.D. 11	52	9	36	SV 11 M
Hose i.D. 13	52	10	30	SV 13 M
Hose i.D. 19	65	16	67	SV 19 M
Hose i.D. 25	80	21.5	102	SV 25 M

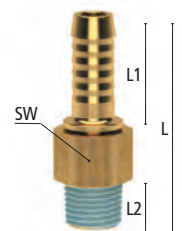
For hose clips type ZOS (☞ page 414), type HS (☞ page 415) or crimping ferrules type LPH (☞ page 418)



Swivelling thread stems with tapered male thread, Loctite-coated

Thread connection	Hose connection	L	SW	L1	L2	Bore	Weight	Type No.
R 1/4 m	Hose i.D. 6	50	17	25	11	5	32	TD 146 M
R 1/4 m	Hose i.D. 9	50	17	25	11	6	38	TD 149 M
R 3/8 m	Hose i.D. 6	52	19	25	12	5	45	TD 386 M
R 3/8 m	Hose i.D. 9	52	19	25	12	7	49	TD 389 M
R 3/8 m	Hose i.D. 11	52	19	25	12	7	56	TD 3811 M

For hose clips type ZOS (☞ page 414), type HS (☞ page 415) or crimping ferrules type LPH (☞ page 418)



Pneumatic Fittings

made of Brass Plain

Angle Screwings

Materials

- Angle screwings: Brass MS 58 plain

Max. Working Pressure	Temperature	Type of Valve	Media	
PN 15 bar	-20°C – +200°C	straight-through	different	10

Angle Screwings for 45° or 90°



Thread connection	L	SW	L1	L2	Version	Weight	Type No.
G 1/4 m - G 1/4 f	29	20	8	10	45°	42	W 14 IA-45
G 1/4 m - G 1/4 f	29	20	8	13.5	90°	53	W 14 IA-90

To be combined with female thread couplings, male thread stems and male plugs G 1/4 f

Manifolds for Quick Connect Couplings

made of Brass MS 58

- Manifolds for quick connect couplings of brass
- 3-way manifolds or 4-way manifolds with female thread
- [For the supply of compressed air on central places](#)

Materials

- Distributor and quick connect coupling: Brass MS 58 plain

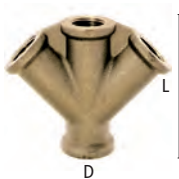
Max. Working Pressure	Temperature	Media	
PN 35 bar	-20°C – +100°C	Compressed air a.o.	5

3-way manifolds with female thread

Thread connection	L	D	Bore	Weight	Type No.
3 x G 3/8 f	46	26	15	93	DWS 38
3 x G 1/2 f	50	27.5	19	100	DWS 12

4-way manifolds with female thread

Thread connection	L	D	Bore	Weight	Type No.
4 x G 3/8 f	61	26	15	191	VWS 38
4 x G 1/2 f	59.5	27.5	19	170	VWS 12



NEW!

Manifold for Quick Connect Couplings

made of Plastic

- Manifold made of plastic with brass inserts
- 4-way manifold with female thread
- [For compressed air on central distribution point](#)
- For wall mounting 4 x Ø 5.5m - 70x44

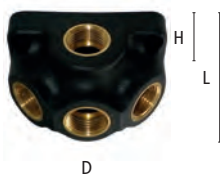
Materials

- Housing: Polyamide 6 with 30% fiberglass
- Inserts: Brass MS 58 plain

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Media	
PN 16 bar	-10°C – +50°C	15	ISO 228	4000l/min	compressed air/neutral, atoxic, non-flammable gases	1

4-way manifold with female thread

Thread connection	L	D	H	Weight	Type No.
4 x G 1/2 f	52	85	60	230	WV 12



Pneumatic Fittings

made of Brass Nickel-Plated

- For fluid-control, compressed air, automation, measure, control and regulation technology, etc.

Materials

- Fittings: Brass MS 58 nickel-plated

Max. Working Pressure	Thread	Media	
PN 8 bar	ISO 228 / DIN 2999	Compressed air a.o.	10

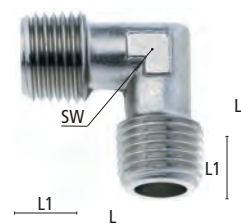
Elbow Connectors with tapered male thread and parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m - G 1/8 f	21	11	18.8	8	21	VL 202-18
R 1/4 m - G 1/4 f	25.5	13	24.5	11	38	VL 202-14
R 3/8 m - G 3/8 f	28	17	25.3	12	61	VL 202-38
R 1/2 m - G 1/2 f	14	21	30	14	103	VL 202-12



Elbow Connectors with both sides tapered male thread

Thread connection	L	SW	L1	Weight	Type No.
2 x R 1/8 m	17.8	10	8	10	VL 200-18
2 x R 1/4 m	21	11	11	21	VL 200-14
2 x R 3/8 m	25.3	13	12	38	VL 200-38
2 x R 1/2 m	28.5	17	14	61	VL 200-12



Elbow Connectors with both sides parallel female thread

Thread connection	L	SW	L1	Weight	Type No.
2 x G 1/8 f	21	11	8	23	VL 201-18
2 x G 1/4 f	25.5	13	11	42	VL 201-14
2 x G 3/8 f	28	17	12	72	VL 201-38
2 x G 1/2 f	33	21	14	116	VL 201-12



Y-Connectors with tapered male thread and 2 x parallel female thread

Thread connection	L	SW	Weight	Type No.
R 1/8 m - 2 x G 1/8 f	8	14	22	VM 204-18
R 1/4 m - 2 x G 1/4 f	11	17	43	VM 204-14
R 3/8 m - 2 x G 3/8 f	12	22	55	VM 204-38
R 1/2 m - 2 x G 1/2 f	14	26	108	VM 204-12



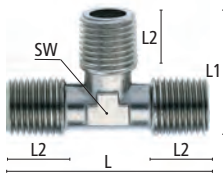
Y-Connectors with 3 x parallel female thread

Thread connection	L	SW	Weight	Type No.
3 x G 1/8 f	8	14	32	VF 204-18
3 x G 1/4 f	11	17	36	VF 204-14
3 x G 3/8 f	12	22	42	VF 204-38
3 x G 1/2 f	14	26	101	VF 204-12



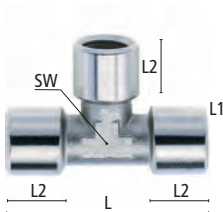
Pneumatic Fittings

made of Brass Nickel-Plated



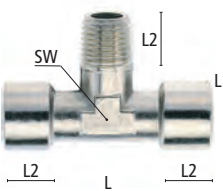
T-Adaptors with 3 x tapered male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
3 x R 1/8 m	35.5	10	17.8	8	20	VTT 208-18
3 x R 1/4 m	42	11	21	11	30	VTT 208-14
3 x R 3/8 m	50.5	13	25.3	12	56	VTT 208-38
3 x R 1/2 m	57	17	28.5	14	128	VTT 208-12



T-Adaptors with 3 x parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
3 x G 1/8 f	42	11	21	8	31	VTT 200-18
3 x G 1/4 f	51	13	25.5	11	62	VTT 200-14
3 x G 3/8 f	56	17	28	12	97	VTT 200-38
3 x G 1/2 f	66	21	33	14	161	VTT 200-12



T-Adaptors with tapered male thread and 2 x parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m - 2 x G 1/8 f	42	11	21	8	26	VTC 206-18
R 1/4 m - 2 x G 1/4 f	51	13	25.5	11	56	VTC 206-14
R 3/8 m - 2 x G 3/8 f	56	17	28	12	91	VTC 206-38
R 1/2 m - 2 x G 1/2 f	66	21	33	14	150	VTC 206-12



Double Adaptor with both sides parallel male thread

Thread connection	L	SW	L1	Weight	Type No.
2 x G 1/8 m	16.7	14	6	10	VNC 260-18
2 x G 1/4 m	21.2	14	8	15	VNC 260-14
2 x G 3/8 m	23.2	19	9	28	VNC 260-38
2 x G 1/2 m	25.7	24	10	32	VNC 260-12
2 x G 3/4 m	29	30	11	68	VNC 260-34

Male thread sealing with PVC-packing rings type HPD (☉ page 231)



Reducing Double Adaptor with both sides parallel male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m - G 1/4 m	19.2	17	6	8	15	VNR 261-184
G 1/8 m - G 3/8 m	20.2	19	6	9	20	VNR 261-188
G 1/8 m - G 1/2 m	24.7	24	6	10	34	VNR 261-182
G 1/4 m - G 3/8 m	22.2	19	8	9	21	VNR 261-148
G 1/4 m - G 1/2 m	23.7	24	8	10	26	VNR 261-142
G 3/8 m - G 1/2 m	24.7	24	9	10	38	VNR 261-382
G 1/2 m - G 3/4 m	27.5	28	10	11	65	VNR 261-124

Male thread sealing with PVC-packing rings type HPD (☉ page 231)

Pneumatic Fittings

made of Brass Nickel-Plated

Double Adaptors with both sides tapered male thread

Thread connection	L	SW	L1	Weight	Type No.
2 x R 1/8 m	19.7	12	7.6	9	VNC 250-18
2 x R 1/4 m	27	14	11	16	VNC 250-14
2 x R 3/8 m	28.2	17	11.6	26	VNC 250-38
2 x R 1/2 m	33.5	22	14	52	VNC 250-12
2 x R 3/4 m	39	27	16.5	69	VNC 250-34



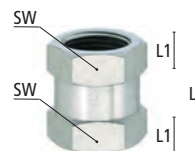
Reducing Double Adaptors with both sides tapered male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m - R 1/4 m	23.6	14	7.6	11	14	VNR 251-184
R 1/8 m - R 3/8 m	24.2	17	7.6	11.6	19	VNR 251-188
R 1/4 m - R 3/8 m	26.6	17	11	11.6	23	VNR 251-148
R 1/4 m - R 1/2 m	27.6	22	11	14	40	VNR 251-142
R 3/8 m - R 1/2 m	31.5	22	11.6	14	44	VNR 251-382
R 1/2 m - R 3/4 m	37.6	27	14	16.6	68	VNR 251-124



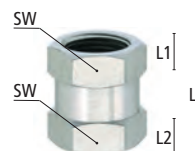
Double Adaptors with both sides parallel female thread

Thread connection	L	SW	L1	Weight	Type No.
2 x G 1/8 f	15	14	8	12	VM 254-188
2 x G 1/4 f	22	17	11	21	VM 254-144
2 x G 3/8 f	24	22	12	39	VM 254-388
2 x G 1/2 f	30	27	15	50	VM 254-122



Reducing Double Adaptors with both sides parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f - G 1/4 f	19.6	17	8	11	25	VM 255-184
G 1/4 f - G 3/8 f	23	22	11	12	47	VM 255-148
G 1/2 f - G 3/4 f	30	32	15	17	107	VM 255-124



Reducing Adaptors with parallel male and female thread

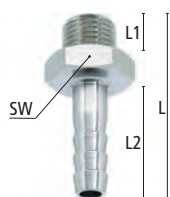
Thread connection	L	SW	L1	Weight	Type No.
G 1/8 f - G 1/4 m	13	17	8	11	VRC 100-148
G 1/4 f - G 3/8 m	14	19	9	12	VRC 100-384
G 3/8 f - G 1/2 m	15.5	24	10	24	VRC 100-128
G 1/2 f - G 3/4 m	17.5	30	12	41	VRC 100-342



Male thread sealing with PVC-packing rings type HPD (© page 231)

Pneumatic Fittings

made of Brass Nickel-Plated

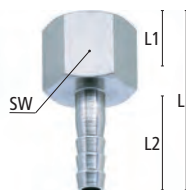


Hose barb adaptor with parallel male thread

Thread connection	Hose connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m	Hose i.D. 6	32	13	7	20	10	VPG 260-186
G 1/8 m	Hose i.D. 9	32	13	7	20	13	VPG 260-189
G 1/4 m	Hose i.D. 6	34	17	9	20	16	VPG 260-146
G 1/4 m	Hose i.D. 9	34	17	9	20	19	VPG 260-149
G 3/8 m	Hose i.D. 9	35	19	10	20	24	VPG 260-389
G 3/8 m	Hose i.D. 14	39	19	10	24	29	VPG 260-3814
G 1/2 m	Hose i.D. 14	40	24	10	24	39	VPG 260-1214
G 3/4 m	Hose i.D. 20	47	30	12	28	87	VPG 260-3420

For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)

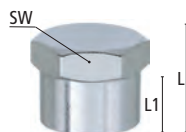
Male thread sealing with PVC-packing rings type HPD (© page 231)



Hose barb adaptor with parallel female thread

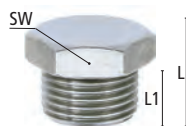
Thread connection	Hose connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	Hose i.D. 6	31	13	9	20	13	VPG 250-186
G 1/4 f	Hose i.D. 6	34	17	11	20	20	VPG 250-146
G 1/4 f	Hose i.D. 9	34	17	11	20	23	VPG 250-149
G 3/8 f	Hose i.D. 9	35	22	12	20	27	VPG 250-389
G 1/2 f	Hose i.D. 13	41.5	24	14	24	45	VPG 250-1213

For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)



Hexagon Locking nut with parallel female thread

Thread connection	L	SW	L1	Weight	Type No.
G 1/8 f	12	14	9	11	VE 265-18
G 1/4 f	14	17	10	17	VE 265-14
G 3/8 f	15.5	22	11	27	VE 265-38
G 1/2 f	17	24	12	28	VE 265-12
G 3/4 f	17.5	30	13	47	VE 265-34



Hexagon Locking nut with parallel male thread

Thread connection	L	SW	L1	Weight	Type No.
G 1/8 m	10.5	14	6	8	VE 261-18
G 1/4 m	13	17	8	14	VE 261-14
G 3/8 m	14	19	9	18	VE 261-38
G 1/2 m	15.5	24	10	27	VE 261-12
G 3/4 m	17.5	30	12	53	VE 261-34

Male thread sealing with PVC-packing rings type HPD (© page 231)

Hexagon Ball Valves

- Miniature ball valves made of brass, nickel-plated
- For pneumatic or water installations in industry, construction or civil applications

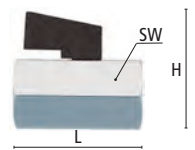
Materials

- Body: Brass MS 58 nickel-plated
- Ball: Brass MS 58 chrome-plated
- Ball sealing: PTFE
- Handle: Plastic

Max. Working Pressure	Temperature	Thread	Media	
PN 10 bar	-10°C – +90°C	ISO 228	Air / Water	10

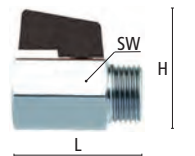
Hexagon Ball Valves with 2 x female thread

Thread connection	L	SW	H	Bore	Weight	Type No.
2 x G 1/4 f	36	19	38	5.5	71	KM 14 TS
2 x G 3/8 f	41	21	38	8	86	KM 38 TS
2 x G 1/2 f	48	25	42	10	137	KM 12 TS



Hexagon Ball Valves with female/male thread

Thread connection	L	SW	H	Bore	Weight	Type No.
G 1/4 m - G 1/4 f	36	19	38	5.5	61	KMZ 14 TS
G 3/8 m - G 3/8 f	41	21	38	8	83	KMZ 38 TS
G 1/2 m - G 1/2 f	48	25	42	10	130	KMZ 12 TS

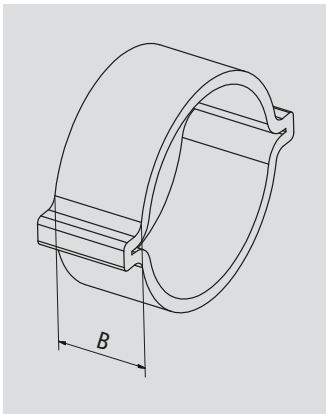


Double-Ear Hose Clips

- Clips made of special reliable steel, zinc plated and blue chromated (free of chrome VI)
- Easy and fast assembly with pincer
- Concentric and strong clamp-effect, safe and unremovable
- No risk of injury, closed and unremovable connection
- Suitable for assembly of many hoses and fittings for use with various media

Materials

- Clips: Unbreakable special reliable steel, zinc-plated and blue chromated (free of chrome VI)



100

Double-Ear Hose Clips

Hose-o.D./ Range	B	Weight	Type No.
5-7	5.5	1	ZOS 5-7
7-9	6	2	ZOS 7-9
9-11	6	2	ZOS 9-11
11-13	6	3	ZOS 11-13
13-15	7	4	ZOS 13-15
14-17	7.5	4	ZOS 14-17
15-18	8	5	ZOS 15-18
17-20	8	5	ZOS 17-20
19-21	7	5	ZOS 19-21
20-23	9	8	ZOS 20-23
22-25	9	9	ZOS 22-25
23-27	9	9	ZOS 23-27
25-28	9	10	ZOS 25-28
27-31	9	12	ZOS 27-31
31-34	9	13	ZOS 31-34
34-37	9	16	ZOS 34-37
37-40	9	17	ZOS 37-40
40-43	9	18	ZOS 40-43
Special assembly pincer		332	ZOSZ

High-Performance Hose Clips

made of Steel W1 (DIN 3017)

- High-performance hose clips made of steel W1, free of chrome VI, zinc-plated and thick layer passivated
- Optimum sealing through high band tension – maximum strip safety
- Hose-protective through rounded edges and smooth band inside
- Thinner screw body with new position, therefore improved torque
- Material and clamp range stamped at inner band side
- Hexagon screw with cross-slotted head
- Regularly spaced tension over complete hose diameter
- Up to size 90 in boxes, sizes 100-180 in plastic bags, from size 190 individually
- For safe, fast and removable use on various hoses and fittings for various media

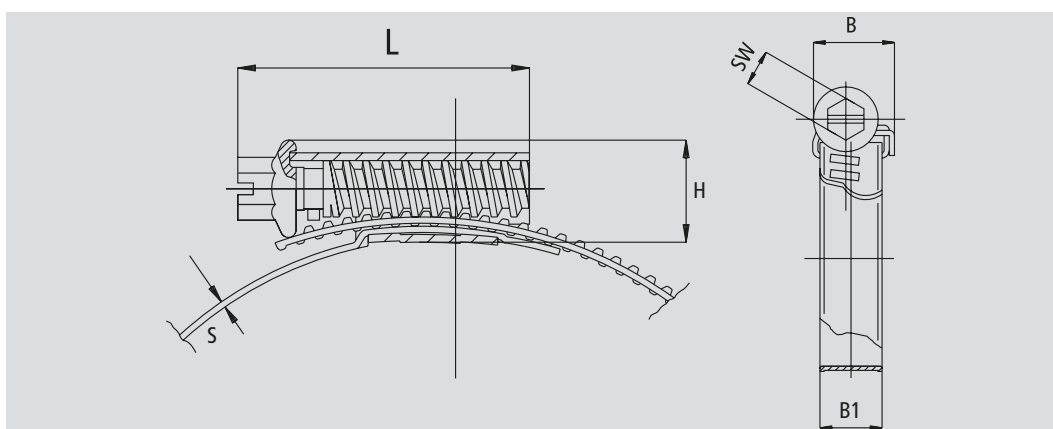
Materials

- Band, Body, Screw: Steel W1, zinc-plated and thick layer passivated

Norm	
DIN 3017	

High-Performance Hose Clips, band and lock steel W 1, zinc-plated

Range	inch	B	SW	torque		band width					Weight	Type No.
				Max.Nm	L	H	B1	S	band-thickness			
8-12	5/18-1/2	14	7	2-2.5	20.5	11.5	9	0.7	100	12	HS 12	
10-16	5/18-5/8	14	7	2-2.5	20.5	11.5	9	0.8	100	13	HS 16	
12-22	1/2-3/4	14	7	3-3.5	24	11.5	9	0.8	100	16	HS 20	
16-27	5/8-1	16	7	5-5.5	31	13	9	0.8	100	17	HS 25	
20-32	3/4-1 1/4	16	7	5-5.5	31	13	12	0.8	50	27	HS 32	
25-40	1-1 5/8	16	7	5-5.5	31	13	12	1.0	50	32	HS 40	
30-45	1 3/8-1 3/4	16	7	5-5.5	31	13	12	1.0	50	33	HS 45	
35-50	1 1/4-2	16	7	5-5.5	31	13	12	1.0	50	35	HS 50	
40-60	1 5/8-2 3/8	16	7	5-5.5	31	13	12	1.0	25	39	HS 60	
50-70	2-2 3/4	16	7	5-5.5	31	13	12	1.0	25	43	HS 70	
60-80	2 3/8-3 1/8	16	7	5-5.5	31	13	12	1.0	25	45	HS 80	
70-90	2 3/4-3 1/2	16	7	5-5.5	37	13	12	1.0	25	52	HS 90	
80-100	3 1/8-4	16	7	5-5.5	37	13	12	1.0	10	53	HS 100	
90-110	3 1/2-4 3/8	16	7	5-5.5	37	13	12	1.0	10	53	HS 110	
100-120	4-4 3/4	16	7	5-5.5	37	13	12	1.0	10	58	HS 120	
110-130	4 3/8-5 1/8	16	7	5-5.5	37	13	12	1.0	10	60	HS 130	
120-140	4 3/4-5 1/2	16	7	5-5.5	37	13	12	1.0	10	63	HS 140	
130-150	5 1/8-5 7/8	16	7	5-5.5	37	13	12	1.0	5	69	HS 150	
140-160	5 1/2-6 1/4	16	7	5-5.5	37	13	12	1.0	5	71	HS 160	
150-170	5 7/8-6 5/8	16	7	5-5.5	37	13	12	1.0	5	74	HS 170	
160-180	6 1/4-7	16	7	5-5.5	37	13	12	1.0	5	77	HS 180	
170-190	6 1/2-7 1/2	16	7	5-5.5	37	13	12	1.0	1	79	HS 190	
180-200	7 1/8-8	16	7	5-5.5	37	13	12	1.0	1	81	HS 200	
190-210	7 1/2-8 1/4	16	7	5-5.5	37	13	12	1.0	1	86	HS 210	
200-220	8-8 3/4	16	7	5-5.5	37	13	12	1.0	1	92	HS 220	
210-230	8 1/8-9	16	7	5-5.5	37	13	12	1.0	1	98	HS 230	
220-240	8 3/4-9 3/8	16	7	5-5.5	37	13	12	1.0	1	101	HS 240	
230-250	9-9 3/4	16	7	5-5.5	37	13	12	1.0	1	105	HS 250	
240-260	9 3/8-10 1/4	16	7	5-5.5	37	13	12	1.0	1	108	HS 260	
250-270	9 3/4-10 1/2	16	7	5-5.5	37	13	12	1.0	1	112	HS 270	
260-280	10 1/4-11	16	7	5-5.5	37	13	12	1.0	1	116	HS 280	



High-Performance Hose Clips

made of Stainless Steel W5 (DIN 3017)

- High performance hose clips made of stainless steel W5
- Optimum sealing through high band tension – maximum strip-safety
- Hose-protective through rounded edges
- Stamped band
- Thinner screw body with new position, therefore improved torque
- Material and clip range stamped at inner band side
- Hexagon screw with slotted head
- Regularly spaced tension over complete hose diameter
- Up to size 90 in boxes, size 100 in plastic bags
- For safe, fast and removable use on various hoses and fittings for various media

Materials

- Band, Body, Screw: Stainless steel W5
- Special Screw Driver: Chromed steel/ plastic

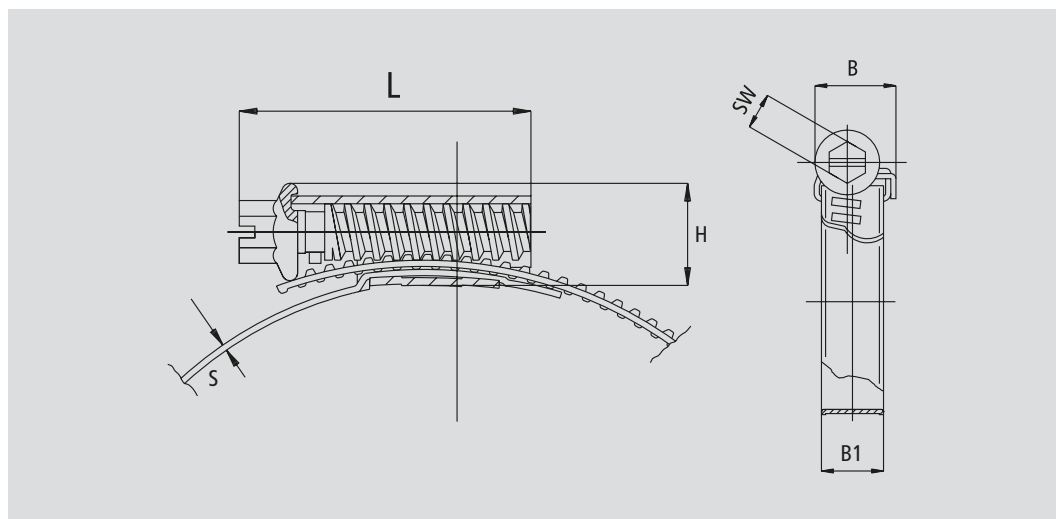
Norm	
DIN 3017	

High-Performance Hose Clips, band and lock stainless steel W 5

Range	torque				Band-width				Weight	Type No.	
	B	SW	Max. Nm.	L	H	B1	S	band-thickness			
8-12	5/18-1/2	10.5	6	1.5	17	9.5	8	0.7	100	6	HSE 12
8-16	5/18-5/8	14	7	2-2.5	21	14	9	0.8	100	11	HSE 16
12-20	1/2-3/4	14	7	2-2.5	24	14	9	0.8	100	13	HSE 20
16-25	5/8-1	14	7	3-3.5	24	14	9	0.8	100	14	HSE 25
20-32	3/4-1 1/4	14	7	3-3.5	24	14	9	0.8	100	15	HSE 32
25-40	1-1 5/8	14	7	3-3.5	26	14	9	0.8	50	18	HSE 40
32-50	1 1/4-2	14	7	3-3.5	26	14	9	0.8	50	18	HSE 50
40-60	1 5/8-2 3/8	14	7	3-3.5	26	14	9	1.0	25	20	HSE 60
50-70	2-2 3/4	14	7	3-3.5	26	14	9	1.0	25	21	HSE 70
60-80	2 3/8-3 1/8	14	7	3-3.5	26	14	9	1.0	25	23	HSE 80
70-90	2 3/4-3 1/2	14	7	3-3.5	26	14	9	1.0	25	25	HSE 90
80-100	3 1/8-4	14	7	3-3.5	26	14	9	1.0	10	28	HSE 100

Special hexagon screw driver of chromed steel with plastic handle

Version	SW	Weight	Type No.
Rigid	7	89	SR STARR
Flexible	7	134	SR FLEX.



Heavy Duty Clamps

made of Steel (DIN 3017)

- Heavy duty clamp made of stainless steel 1.4016
- New special screw with integrated distance tube and better performance
- Reinforced band strap and therefore higher torques (very high breaking torque and very high clamping force)
- Mechanical mounting, therefore no welding points and corrosion contact
- Bridge for sustainable hose relief
- Robust band with rounded edges prevents injuries and hose break
- Simple installation (with manual, pneumatic or electrical standard tools)
- Packed in boxes
- For applications with strict requirements for the hose clamps (for the application of suction and compressed air hoses with high degree of hardness or with plastic / steel core)

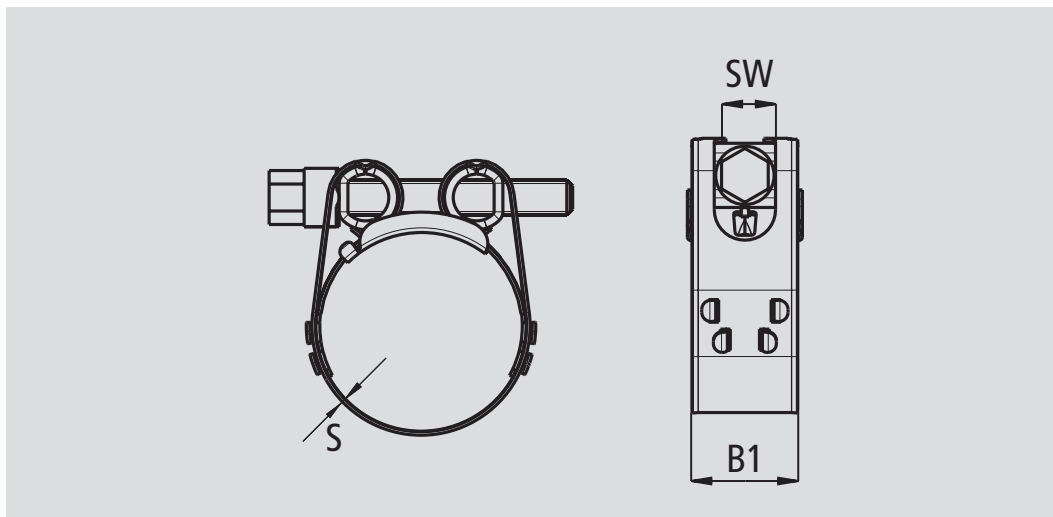
Materials

- Band: Stainless steel 1.4016
- Body, Screws: Steel zinc-plated (free of chrome VI)

Norm	
DIN 3017	

Heavy Duty Clamps

Range	mm	inch	torque		Band width B1	Band thickness S	Weight	Type No.	
			SW	Max. Nm.					
17-19	17-19	11/16-3/4	8	8	18	0.6	100	52	GBSM 19
19-21	19-21	3/4-13/16	8	8	18	0.6	100	52	GBSM 21
21-23	21-23	13/16-15/16	8	8	18	0.6	100	52	GBSM 23
23-25	23-25	15/16-1	8	8	18	0.6	100	52	GBSM 25
25-27	25-27	1-1 1/16	8	8	18	0.6	50	52	GBSM 27
27-29	27-29	1 1/16-1 1/8	8	8	18	0.6	50	52	GBSM 29
29-31	29-31	1 1/8-1 1/4	8	8	18	0.6	50	85	GBSM 31
31-34	31-34	1 1/4-1 5/16	8	8	18	0.6	50	85	GBSM 34
34-37	34-37	1 5/16-1 7/16	8	8	18	0.6	50	85	GBSM 37
37-40	37-40	1 7/16-1 9/16	8	8	18	0.6	50	85	GBSM 40
40-43	40-43	1 9/16-1 11/16	8	8	18	0.6	50	85	GBSM 43
43-47	43-47	1 11/16-1 7/8	10	10	20	0.8	25	85	GBSM 47
47-51	47-51	1 7/8-2	10	10	20	0.8	25	85	GBSM 51
51-55	51-55	2-2 3/16	10	10	20	0.8	25	115	GBSM 55
55-59	55-59	2 3/16-2 5/16	10	10	20	0.8	25	115	GBSM 59
59-63	59-63	2 5/16-2 1/2	10	10	20	0.8	25	115	GBSM 63
63-68	63-68	2 1/2-2 11/16	10	10	20	0.8	10	115	GBSM 68
68-73	68-73	2 11/16-2 7/8	13	20	25	1.0	10	153	GBSM 73
73-79	73-79	2 7/8-3 1/8	13	20	25	1.0	10	153	GBSM 79

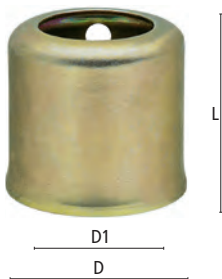


Ferrules for Low Pressure Hose Lines

- Ferrules of redhotted steel, zinc-plated and yellow passivated
- Easy, fast and absolutely safe hose crimping with **LUDECKE** hand-operated assembly machine SPR 333 up to type LPH-23
- No risk of injury, closed and unremovable connection
- For crimping of various hoses and fittings for use with various media

Materials

- Body: redhottet steel, zinc-plated and yellow passivated




Max. Working Pressure									
PN 16 bar									
for hose									
D	for hose			L	D1	Assembly-M.	Weight	☐	Type No.
	DIN 20018	Water	PVC						
12.5				17	8.5	SPR 333	3	100	LPH-12,5
13.5			6x3	20	9.3	SPR 333	5	100	LPH-13,5
14.5	6x3.5			17	10	SPR 333	5	100	LPH-14,5
16			8x3	17	11.5	SPR 333	5	100	LPH-16
18	9x3.5		10x3	20	13.5	SPR 333	7	100	LPH-18
19			12x3	20	13.9	SPR 333	9	100	LPH-19
19.5				26	14.5	SPR 333	10	100	LPH-19,5
21				26	14.5	SPR 333	12	100	LPH-21
22				32	17	SPR 333	16	100	LPH-22
23		13x3		32	17	SPR 333	18	100	LPH-23
25	13x5			32	17		19	100	LPH-25
28	15x6			32	20.5		22	100	LPH-28
30.5		19x4		33	24.3		24	100	LPH-30
33	19x6			35	24.8		40	100	LPH-33
38		25x4.5		35	28		47	25	LPH-38
41	25x7			40	30		64	25	LPH-41

For higher Working Pressure we recommend hydraulic crimping with turned steel-ferrules type PH (☐ page 261) or on request.

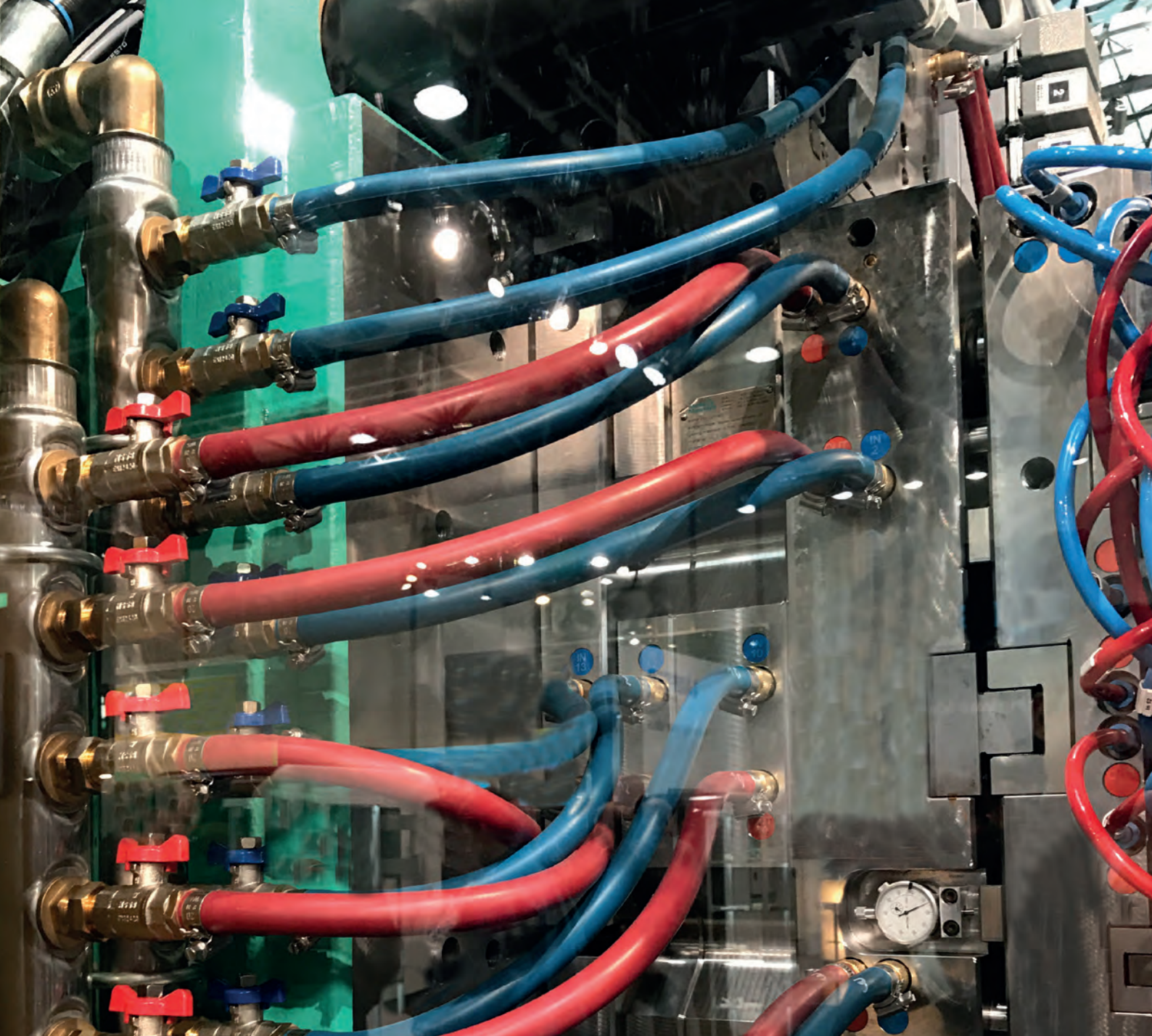
Hand-operated Assembly Machine

for low pressure ferrules

- Crimping machine for easy and safe assembly of low-pressure hoses from 3 to 20 mm Hose i.D.
- **Clean:** Exact assembling of fitting, hose and ferrule through centric crimping of the ferrule
- **Inexpensive:** Fast assembling at reasonable costs
- **Safe:** Improved safety through perfect fit
- **Elegant:** Reduced danger of injury
- With two crimping-jaw sets for crimping range from 3 to 20 mm and from 10 to 20 mm.
- **Flexible:** For mobile use

For hoses							
Hose o.D./							
Hose i.D.	Range	suitable ferrule	e.g. for fitting		Weight	Type No.	
3-20	10-22	LPH 12.5-23	Pneumatic-Connect., ES-Couplings	1	12.2	SPR-333	





Temperature Regulation





Quick Connect Couplings
European Plug Profiles



Quick Connect Couplings
International Plug Profiles



Quick Connect Couplings
System STÄUBLI RPL



SoftFlow Material Conveying
Quick Connect Couplings



Manifolds and Colour Coding



Screwings and Components



Hose Clips and Ferrules



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Temperature Regulation

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Quick Connect Couplings with European Plug Profiles

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148	Temperature Regulation Quick Connect Couplings Series ESHM DN 6
152	Temperature Regulation Quick Connect Couplings (TempSecure®) Series ESHMT DN 6
153	Temperature Regulation Quick Connect Couplings Series ESH DN 9
157	Temperature Regulation Quick Connect Couplings (TempSecure®) Series ESHT DN 9
158	Temperature Regulation Quick Connect Couplings Series ESHG DN 13
162	Temperature Regulation Quick Connect Couplings (Stainless Steel) Series ESHME DN 6
164	Temperature Regulation Quick Connect Couplings (St. Steel, TempSecure®) Series ESHMTE DN 6 NEW!
165	Temperature Regulation Quick Connect Couplings (Stainless Steel) Series ESHE DN 9
167	Temperature Regulation Quick Connect Couplings (St. Steel, TempSecure®) Series ESHT DN 9 NEW!

Quick Connect Couplings with International Plug Profiles

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170	Temperature Regulation Quick Connect Couplings Series ESDM DN 6 One-hand Operation (O-ring-sealing)
174	Temperature Regulation Quick Connect Couplings (TempSecure®) Series ESDMT DN 6 NEW! One-hand Operation (O-ring-sealing)
175	Temperature Regulation Quick Connect Couplings Series ESDMF DN 6 Two-hand Operation (Flat sealing)
179	Temperature Regulation Quick Connect Couplings Series ESD DN 9 One-hand Operation (O-ring-sealing)
183	Temperature Regulation Quick Connect Couplings (TempSecure®) Series ESDT DN 9 NEW! One-hand Operation (O-ring-sealing)
184	Temperature Regulation Quick Connect Couplings Series ESDF DN 9 Two-hand Operation (Flat sealing)



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The Most Extensive Range of Coupling Systems and Accessories for Temperature Regulation Applications



Plastics processing companies rely on particularly robust and resistant couplings and fittings. The reason: They are used during cooling and heating of moulding units, during injection moulding or pressure casting and have to withstand extreme temperatures.

The high quality TempTec quick connect coupling systems by **LUDECKE** made of brass and stainless steel guarantee first class quality, complete reliability as well as an easy and fast operation.

Particularly, we would like to point out our TempSecure® series, which offers an effective solution for unintentional disconnection under pressure.

Advantages:

- High-class material
- Robust, safe and reliable
- Completely dense and durable
- Easy to couple
- Various sizes, connection and valve types
- Particularly safe and flexible solutions for temperature regulation applications



Wide Selection

The **LUDECKE** product range contains a large selection of European and International plug profiles as well as the original Stäubli RPL-Series. These cover the world's most common used plug profiles.



European Plug Profiles



International Plug Profiles



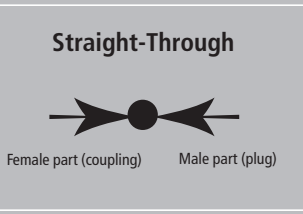
Original STÄUBLI RPL-Series

If there is no coupling system in our product range which meets your requirements, we will be pleased to create an individual solution with you.

Valve Designs

The **LUDECKE** quick connect couplings for temperature regulation applications are available in different valve designs.

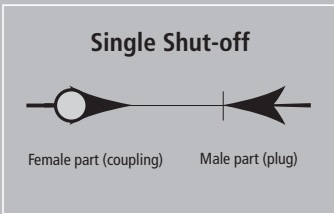
Straight-Through



Female part (coupling) Male part (plug)

- No valve - neither within the coupling nor within the plug
- Maximum flow rate
- During disconnection: a leakage of the media from the coupling and plug line occurs

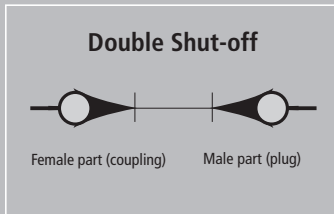
Single Shut-off



Female part (coupling) Male part (plug)

- Straight-through plug
- Coupling with valve
- During disconnection: a media leakage from the plug line is possible

Double Shut-off



Female part (coupling) Male part (plug)

- Valves on both sides (male/female)
- During disconnection: no leakage appears of coupling and plug, constant pressure

Materials

LUDECKE only uses high-quality material for the temperature regulation products and are adapted for all applications areas.

Brass (plain/ nickel-plated)

Most of the **LUDECKE** quick connect couplings consist of brass MS 58. It is a very sturdy material which guarantees high durability and can be excellently galvanized (nickel-plating).

Stainless Steel

For clean-room applications or where aggressive media are used to cool down or heat up, temperature regulation quick connect couplings systems of stainless steel (1.4305) are recommended.

Seals

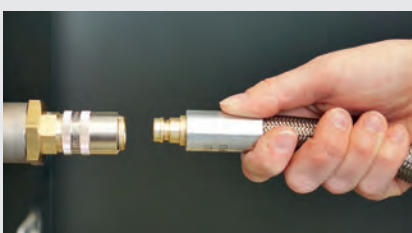
LUDECKE offers especially for temperature regulation applications standardized highly resistant seals of FKM. These are characterized by being heat-resistant up to 200°C*, optimum glide properties, minimum wear, as well as a high elasticity and a high abrasion resistance which guarantees a significantly higher operation time of the couplings. Depending on the applications, special high-performance seals of FKM (Special-Hitec-FKM-O-ring), EPDM and FFKM are used. Further information can be found on the page 142.

To offer you the optimum solution (subject to application and media) we recommend a consultation with our competent sales and engineering team.

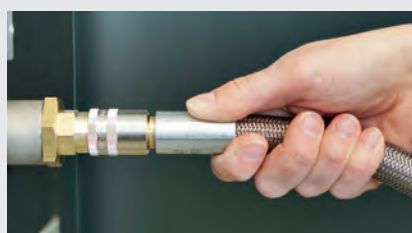
*subject to used media

Connecting Within Seconds

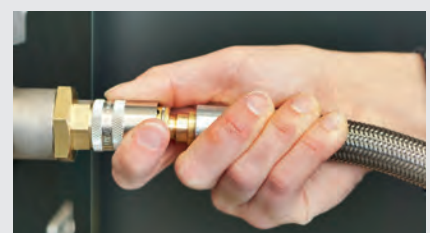
The **LUDECKE** quick connect couplings are characterized by an extra easy operation.



One-hand operation: To connect, simply push the plug into the coupling.



To disconnect, pull back the sleeve of the coupling (automatically disconnected).





Temperature Regulation Quick Connect Coupling System with Automatic Safety Locking Mechanism

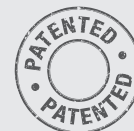
Safety without Compromise for Temperature Regulation Applications



The patented **LUDECKE** TempSecure® temperature regulation quick connect coupling system features an automatic safety locking mechanism that offers an effective solution for unintentional disconnection and unlocking.

Thus, the coupling is especially suited for the use with aggressive media, such as temperature regulation applications with hot or cold water as well as tempered oil between - 20°C and + 200°C*. High quality FKM-O-rings make the coupling an ideal media carrier especially with high temperature.

TempSecure®
by **LUDECKE**



*subject to used media

A plus for safety

- Patented automatic safety locking mechanism
- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and strengthened release sleeve made of high resistant special brass

Maximum durability

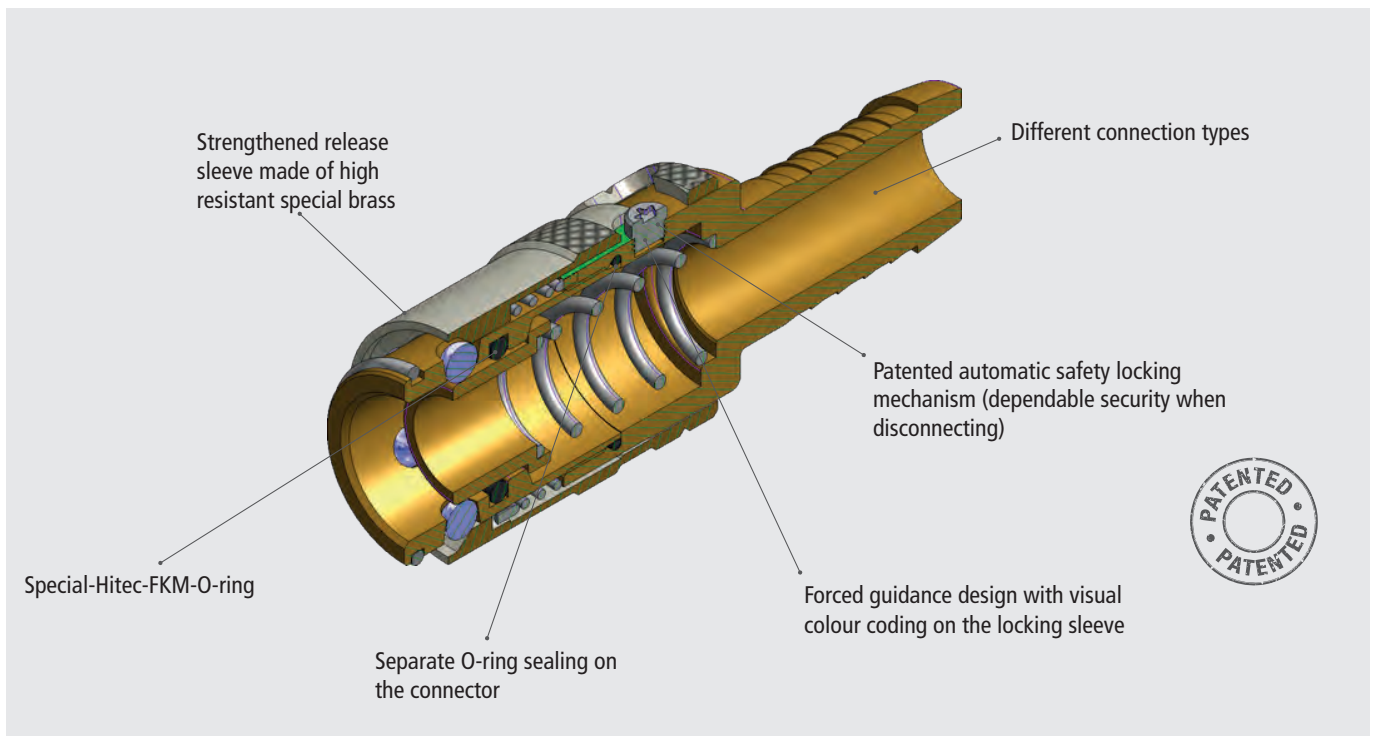
- High temperature seals (Special-Hitec-FKM-O-Ring) with resilient characteristics
- Versions with additional O-ring sealing at connection port to prevent leakage in high temperature applications

According to your desires

- Available for the series ESHMT DN 6 and ESHT DN 9 (European plug profile) as well as ESDMT DN 6 and ESDT DN 9 (completely compatible to international plug profile)
- **NEW!** Series ESHMT DN 6 and ESHT DN 9 also available in stainless steel
- **NEW!** Optionally available straight-through, single or double shut-off

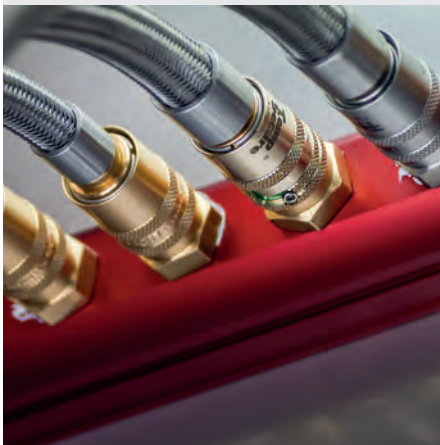


High-Quality Materials Guarantee Best Reliability



The Guardian Angel for the Plastics Industry

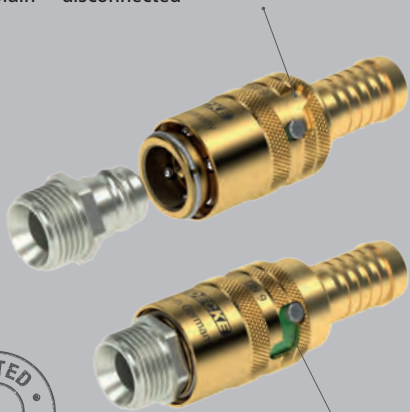
The TempSecure® safety coupling - is especially suited for high safety required applications due to high temperatures of the used media.





Easy - Reliable - Quick

visual colour coding on the locking sleeve
brass plain = disconnected



green = connected

The **LUDECKE** TempSecure® temperature regulation quick connect coupling system is characterized above all through its simple and intuitive connecting process. Even in difficult and hidden areas, this enables a safe operation.

The connection takes place via automatic locking. An additional colour coding on the locking sleeve indicates a correct and secure connection clearly and unequivocally.

The disconnecting process can be blindly executed due to the forced guidance of the locking sleeve – it requires an axial movement of turning the locking sleeve, basically a manual unlocking motion. An accidental or unintentional disconnection is practically impossible.

Coupling:



One-hand operation – To connect the system simply push the plug into the safety coupling. The release sleeve moves automatically forward into the final safety lock position while twisting. The coupling is now firmly connected with the plug and secured against unintentional opening.

Disconnection:



To release the plug from the safety coupling the sleeve has to be pushed manually and forcibly. Only with a conscious pulling/twisting movement, can the plug be removed from the safety coupling.

The Unlocking Safeguard

Safety for Man and Machine



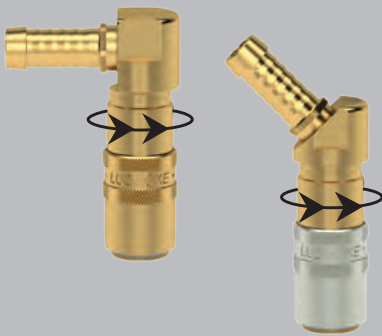
The **LUDECKE** temperature regulation product range contains alongside the TempSecure® Series, also a simplified unlocking safeguard.

- Disconnection only possible with an exact engagement of the safety pin into sleeve notch
- Prevention of fluid or pressure loss in the circulation during operation
- Prevention of human injury and harm to the environment, machine and tool
- Available for the Series ESHM, ESHME, ESH, ESHE as well as ESDM and ESD

Just add "S" on Type No. (e.g. ESHM 9 TLS)

360° Rotatable Connector

Completely Flexible



The hose barb and male thread couplings from the series ESHM, ESH and ESDM are optionally available with a rotatable connector, with a high-quality ball-and-socket joint with double O-ring sealing*.

- Swivel joint withstands the pulling and rotary motion when opening and closing the tool in the machine and prevents the fast wearing and abrasion of the O-ring inside the coupling through the permanent turning of the plug
- Leaks in the temperature regulation circuit are prevented
- Reduces the danger of bending hoses on their way to the tool

Just add "DR" on Type No. (e.g. ESHM 9 TLABDR), minimum order of 20 Pieces/ Type

* for other coupling series on request

The Anchoring Concept

Safest Clamping Features with Quick-Fit Hose Stem Contour

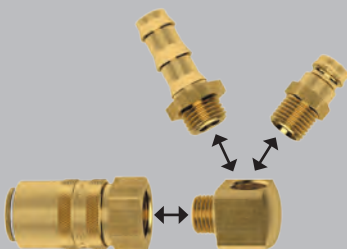


We optionally offer all couplings with quick-fit hose stem contour for the application with hoses (for systems ESDM and ESD on request).

- Safest clamping features without additional clamp assembly, provides a secure hold in combination with an absolute leak-free sealing between plug fitting and fastening hose
- No aid at all, tools or hose clamps are necessary to assemble the hose!
- Coloured rings assure an easy and clear marking of unicoloured fastening hoses to distinguish the difference between heating or cooling circulations.
- Suitable fastening hoses are available from various manufacturers and distributors
- Special models or other sizes / types on request
- Take care of max. permanent temperature of 100°C!

The Modular System

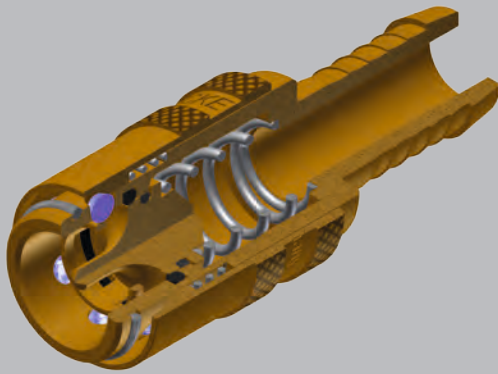
Quick - Safe - Clean



The **LUDECKE** temperature regulation program is easily combinable according to your requirements: For a broad flexibility 45° and 90°- angle screwings are available which can be screwed to threaded couplings and hose stems.

The New O-Ring-Generation made of FKM

Even more Resistant and Durable



LUDECKE offers especially for temperature regulation applications high-performance seals made of FKM.

Advantages

- Heat resistant up to 200°C
- High resistance against all common tempered media*
- FKM-O-rings are generally PTFE coated, therefore significantly better gliding properties and minimum wear
- High elasticity (no crack formation) according to DIN 53504
- High abrasion resistance of the O-ring according to DIN 54021
- Prevents bonding of the O-ring and the plug during high temperature application
- Significantly higher operation time of the coupling

European Plug Systems:

with One-hand operation and O-ring-sealing

International Plug Systems:

optionally with One-hand operation and O-ring-sealing

(Series ESDM / ESD)

or Two-hand operation with flat sealing

(Series ESDMF / ESDF)

Now standard in every coupling

High-Performance Special Seals for Temperature Regulation Quick Connect Couplings

High Resistance for Extreme Exposure

For the temperature regulation quick connect coupling series ESHM, ESH, ESHME, ESHE, ESDM and ESD as well as ESHG new high-performance special seals are alternatively offered for highly aggressive tempered fluids.

FKM-O-ring

- Extreme heat resistance up to 200°C continual temperature*
- High resistance against synthetic oils used as tempered media
- Very good chemical resistance and high resistance against aliphatic hydrocarbons (fuels)
- Steam/hot water optimized
- For easy differentiation, the coupling sleeve is marked with a green anodized aluminium ring

When ordering, simply add to the standard Type No. „HV“ (e.g. ESHM 9 TLABHV).

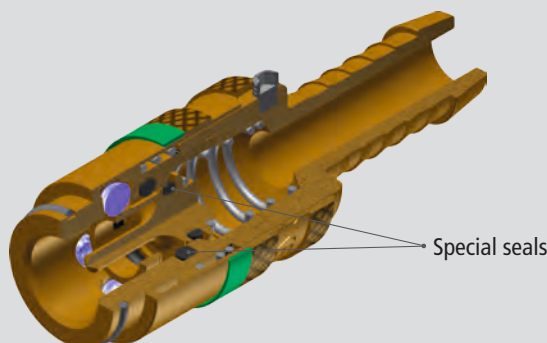
HITEC®-EPDM-O-ring

- Extreme heat resistance up to 160°C continual temperature
- High resistance against hot water, ultrapure water and steam used as tempered media
- Aging and weather resistant
- Possesses a KTW certification for drinking water in Germany
- For easy differentiation the coupling sleeve is marked with a black anodized aluminium ring
- **Caution: This ring is not resistant to oils or grease**

When ordering, simply add to the standard Type No. „HE“ (e.g. ESHM 9 TLABHE).

Minimum Order of 20 Pieces/ Type

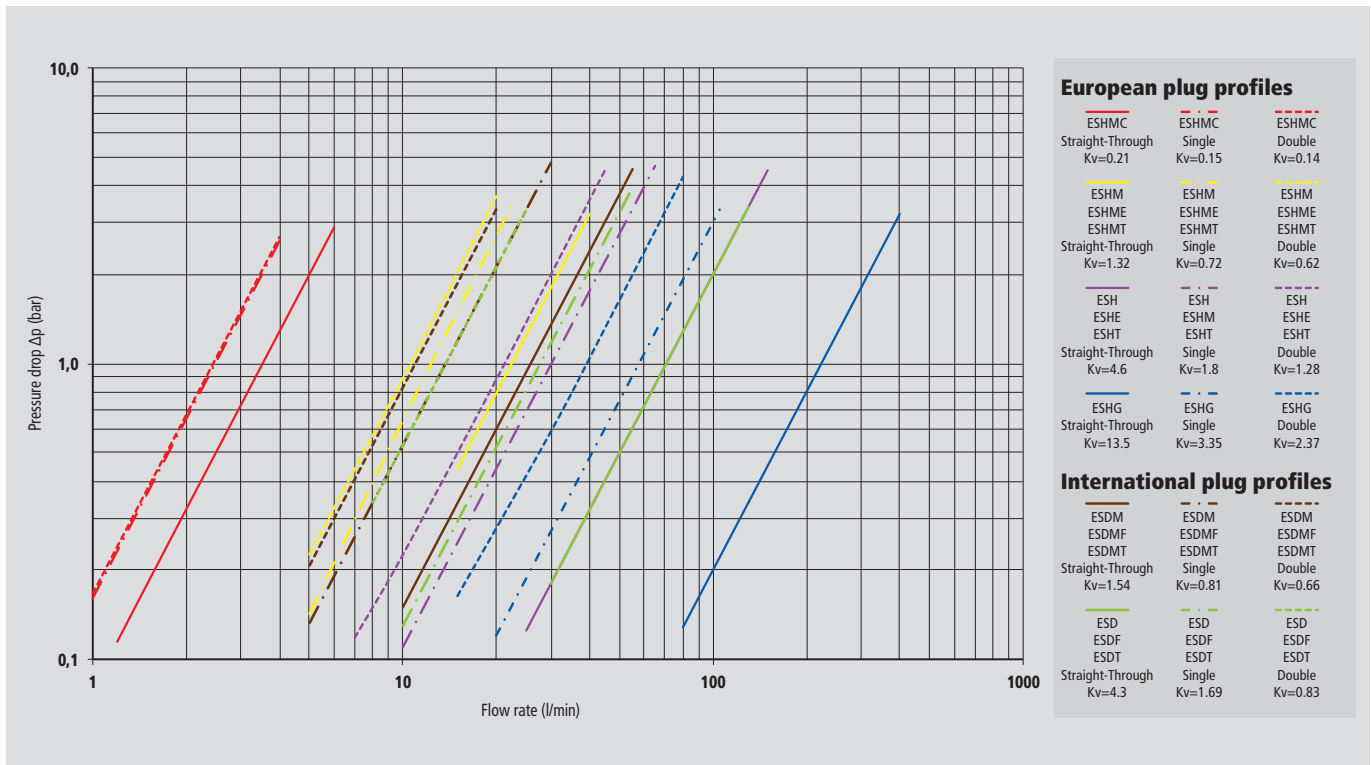
For other coupling series on request!



*temperature resistance is subject to the suitable media

Flow Chart

The flow rates of our different temperature regulation quick connect coupling systems are summarized in the following chart.



Additional Information

- For permanent operation over 160°C, an exact specification for the necessary type should be determined (© page 142 for special seals)
- The **LUDECKE** temperature regulation quick connect couplings have a number of distinctive features:
 - Difference between fine threads acc. to DIN 13 and threads acc. to ISO 228, is that all ISO 228 threads have a lathed shoulder
 - The brass plugs with inch threads are generally brass nickel-plated, the metric threads are brass plain
 - The sleeves of straight-through couplers are brass nickel-plated
 - Categorical colour coding system for distinction between flow and return (© page 205)
- Couplings with extended sleeves can easily be connected and disconnected with countersunk plugs in the mould
- All shut-off valve couplings are generally suitable for connection with shut-off valve plugs
- All coupling series have a one-hand operating function - The series ESDMF and ESDF couplers have a flat sealing ring on the front end and a two-hand operating function



Overview of the Quick Connect Couplings with

**Temp
Secure**
by LUDECKE

**Temp
Secure**
by LUDECKE

Series **ESHMC**
DN 2.7

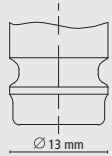
ESHM
DN 6

ESHMT
DN 6

ESH
DN 9

ESHT
DN 9

Plug profile
(original size)



Materials:

Body: Brass MS 58 plain
Sleeve*: Brass MS 58 (plain/n-pl.)
Valve Body: Brass MS 58 plain
Valve: Brass MS 58 plain

Springs, Retaining Ring: Stainless Steel 1.4310
Balls: Stainless Steel 1.3541

Seals: FKM (PTFE-coated)
Special seals for other media on request: EPDM, FFKM

Plug: Brass MS 58 (plain/n-pl.)

Max. Working Pressure: PN 15 bar

Temperature: -20°C– +200°C**

Thread Types: DIN 13

Flow rate: see chart p. 143

Connection: straight/45°/90°

Type of Valve: single/double/straight-through

Operation: One-Hand

Page: 146

Body: Brass MS 58 plain
Sleeve*: Brass MS 58 (plain/n-pl.)
Valve Body: Brass MS 58 plain
Valve: Brass MS 58 plain

Springs, Retaining Ring: Stainless Steel 1.4310
Balls: Stainless Steel 1.4034

Seals: FKM (PTFE-coated)
Special seals for other media on request: EPDM, FFKM

Plug: Brass MS 58 (plain/n-pl.)

Max. Working Pressure: PN 15 bar

Temperature: -20°C– +200°C**

Thread Types: ISO 228, DIN 13

Flow rate: see chart p. 143

Connection: straight/45°/90°

Type of Valve: single/double/straight-through

Operation: One-Hand

Page: 148

Body: Brass MS 58 plain
Sleeve*: hrsb (plain/nickel-plated)
Valve Body: Brass MS 58 plain
Valve: Brass MS 58 plain

Springs, Retaining Ring: Stainless Steel 1.4310
Balls: Stainless Steel 1.4034

Seals: Special-Hitec-FKM-O-Ring
Special seals for other media on request: EPDM, FFKM

Plug: Brass MS 58 (plain/n-pl.)

Max. Working Pressure: PN 15 bar

Temperature: -20°C– +200°C***

Thread Types: ISO 228, DIN 13

Flow rate: see chart p. 143

Connection: straight/45°/90°

Type of Valve: single/double/straight-through

Operation: One-Hand

Page: 152

Body: Brass MS 58 plain
Sleeve*: Brass MS 58 (plain/nickel-pl.)
Valve Body: Brass MS 58 plain
Valve: Brass MS 58 plain

Springs, Retaining Ring: Stainless Steel 1.4310
Balls: Stainless Steel 1.4034

Seals: FKM (PTFE-coated)
Special seals for other media on request: EPDM, FFKM

Plug: Brass MS 58 (plain/n-pl.)

Max. Working Pressure: PN 15 bar

Temperature: -20°C– +200°C**

Thread Types: ISO 228, DIN 13

Flow rate: see chart p. 143

Connection: straight/45°/90°

Type of Valve: single/double/straight-through

Operation: One-Hand

Page: 153

Body: Brass MS 58 plain
Sleeve*: hrsb (plain/nickel-plated)
Valve Body: Brass MS 58 plain
Valve: Brass MS 58 plain

Springs, Retaining Ring: Stainless Steel 1.4310
Balls: Stainless Steel 1.4034

Seals: Special-Hitec-FKM-O-Ring
Special seals for other media on request: EPDM, FFKM

Plug: Brass MS 58 (plain/n-pl.)

Max. Working Pressure: PN 15 bar

Temperature: -20°C– +200°C***

Thread Types: ISO 228, DIN 13

Flow rate: see chart p. 143

Connection: straight/45°/90°

Type of Valve: single/double/straight-through

Operation: One-Hand

Page: 157

European Plug Profiles



ESHG
DN 13

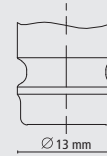
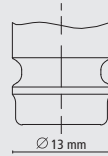
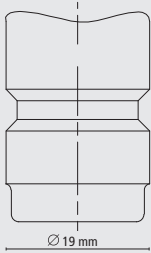
ESHME
DN 6

ESHMTE
DN 6

ESHE
DN 9



ESHTe
DN 9



Brass MS 58 plain
Brass MS 58 (plain/n-pl.)
Brass MS 58 plain
Brass MS 58 plain

Stainless Steel 1.4305
Stainless Steel 1.4305
Stainless Steel 1.4305
Stainless Steel 1.4305

Stainless Steel 1.4305
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Stainless Steel 1.4305

Stainless Steel 1.4310
Stainless Steel 1.4034

Stainless Steel 1.4310
Stainless Steel 1.4034

Stainless Steel 1.4310
Stainless Steel 1.4034

Stainless Steel 1.4310
Stainless Steel 1.4034

Stainless Steel 1.4310
Stainless Steel 1.4034

FKM (PTFE-coated)

FKM (PTFE-coated)

Special-Hitec-FKM-O-ring

FKM (PTFE-coated)

Special-Hitec-FKM-O-ring

EPDM, FFKM

EPDM, FFKM

EPDM, FFKM

EPDM, FFKM

EPDM, FFKM

Brass MS 58 (plain/n-pl.)

Stainless Steel 1.4305

Stainless Steel 1.4305

Stainless Steel 1.4305

Stainless Steel 1.4305

PN 15 bar

PN 15 bar

PN 15 bar

PN 15 bar

PN 15 bar

-20°C– +200°C**

-20°C– +200°C**

-20°C– +200°C**

-20°C– +200°C**

-20°C– +200°C**

ISO 228, DIN 13

ISO 228, DIN 13

ISO 228, DIN 13

ISO 228, DIN 13

ISO 228, DIN 13

see chart p. 143

see chart p. 143

see chart p. 143

see chart p. 143

see chart p. 143

straight/45°/90°

straight/45°/90°

straight/45°/90°

straight/45°/90°

straight/45°/90°

single/double/straight-through

single/double/straight-through

single/double/straight-through

single/double/straight-through

single/double/straight-through

One-Hand

One-Hand

One-Hand

One-Hand

One-Hand

158

162

164

165

167

*coupling with valve: Brass plain, coupling without valve: Brass nickel-plated

**subject to media (oil: 200°C, water: 150°C, air: 200°C)

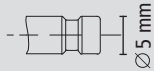
***subject to media (oil: 200°C, water: 160°C, air: 200°C)

hrsb: high resistant special brass material

Temperature Regulation Quick Connect Couplings

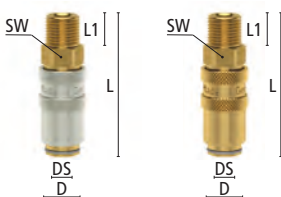
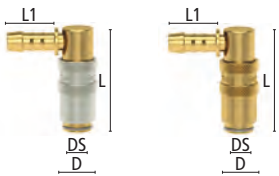
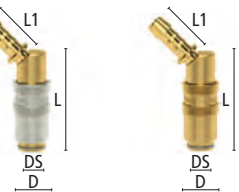
Series ESHMC plug size 5 mm

DN 2.7



Plug Profile (original size)

European
Plug Profile



- For temperature regulation applications with hot or cold water as well as tempered oil
- The series DN 2.7 is especially suitable for the connection of temperature regulation controlled lines on moulds in the plastics manufacturing industry for the production of micro-parts with very small tools
- Optional with straight-through, single or double shut-off
- Extended sleeves for problem-free connection of plugs counter-sunk in the mould, angled connections avoid the kinking of thin-walled hoses

Materials

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: Brass MS 58 plain/nickel-plated
- Balls: Stainless steel 1.3541
- Springs, retaining ring: Stainless steel 1.4310
- O-rings: FKM (PTFE-coated)

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	2.7	DIN 13, DIN 158	One-hand	single/double/straight-thr.	Tempered Media	Coupl. 5 / Plug 10

Couplings with straight standard hose stem without / with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No.w/o valve	Type No. w valve
Hose i.D. 5	35	10	13.5	5	3.5	10	ESHMC 5 TL	ESHMC 5 TLAB

Couplings with 45° standard hose stem without / with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No.w/o valve	Type No.w valve
Hose i.D. 5	41	10	13.5	5	3.5	8	ESHMC 5 TL-45	ESHMC 5 TL-45AB

Couplings with 90° standard hose stem without / with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No.w/o valve	Type No. w valve
Hose i.D. 5	41	10	13.5	5	3.5	8	ESHMC 5 TL-90	ESHMC 5 TL-90AB

Couplings with straight male thread without / with valve

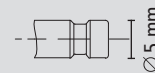
Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No.w/o valve	Type No. w valve
M 5x0.5 m	31	9	10	5	5	3.5	9	ESHMC 505 A	ESHMC 505 AAB
M 8x0.75 m	33	9	10	7	5	3.5	10	ESHMC 875 A	ESHMC 875 AAB

Suitable hose clips for hose couplings, double-ear hose clips or crimping ferrules for standard hoses (© page 414 - 417)

Temperature Regulation Quick Connect Couplings

plug size 5 mm **Series ESHMC**

DN2.7



Plug Profile (original size)

Plugs with straight standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 5	25	9	13.5	10	5	2.7	3	ESHMC 5 SL

Plugs with straight male thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
M 5x0.5 m	18	7	5	10	5	2.7	3	ESHMC 505 NA
M 8x0.75 m	20	9	7	10	5	2.7	4	ESHMC 875 NA

Plugs with straight male thread with valve

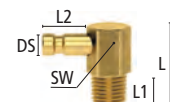
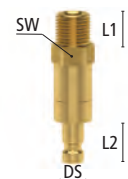
Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
M 5x0.5 m	28	9	5	10	5	2.7	7	ESHMC 505 NAAB
M 8x0.75 m	30	9	7	10	5	2.7	7	ESHMC 875 NAAB

Plugs with 90° male thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
M 5x0.5 m	15.5	9	5	10	5	2.7	9	ESHMC 505 NA-90
M 8x0.75 m	17.5	9	5	10	5	2.7	11	ESHMC 875 NA-90

System Adapters

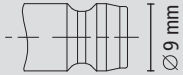
Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 2.7 - DN 2.7	22	6	10	10	5	5	2.7	3	ESHMC-ESHMC
DN 2.7 - DN 6	26.5	9	10	14	5	9	2.7	9	ESHMC-ESHM



Temperature Regulation Quick Connect Couplings

Series ESHM plug size 9 mm

DN6



Plug Profile (original size)

European
Plug Profile

Also in
Stainless Steel
Series ESHME
page 308

- For temperature regulation applications with hot or cold water as well as tempered oil
- Optional with straight-through, single or double shut-off
- Hose couplings available with standard stem profile for standard hoses or quick-fit profile for quick-fit hoses
- All couplings available with disconnect-protection with surcharge. Just add „S“ on Type No.

Materials

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: FKM (PTFE-coated)

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	6	ISO228/ DIN13/ DIN158	One-hand	single/double/straight-thr.	Tempered media	Coupl. 5 / Plug 10

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	53	17	22.5	9	5	40	ESHM 6 TL	ESHM 6 TLAB
Hose i.D. 9	53	17	22.5	9	6	45	ESHM 9 TL	ESHM 9 TLAB
Hose i.D. 13	55	17	25	9	6	54	ESHM 13 TL	ESHM 13 TLAB

Couplings with straight quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	58.5	17	28	9	5	42	ESHM 6 T	ESHM 6 TAB
Hose i.D. 10	58.5	17	28	9	6	49	ESHM 10 T	ESHM 10 TAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	42.5	17	25.5	9	5	58	ESHM 6 TL-45	ESHM 6 TL-45AB
Hose i.D. 9	42.5	17	25.5	9	6	62	ESHM 9 TL-45	ESHM 9 TL-45AB

Couplings with 45° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	42.5	17	33	9	5	59	ESHM 6 T-45	ESHM 6 T-45AB
Hose i.D. 10	42.5	17	33	9	6	68	ESHM 10 T-45	ESHM 10 T-45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	42.5	17	25.5	9	5	58	ESHM 6 TL-90	ESHM 6 TL-90AB
Hose i.D. 9	42.5	17	25.5	9	6	62	ESHM 9 TL-90	ESHM 9 TL-90AB

Couplings with 90° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	42.5	17	33	9	5	59	ESHM 6 T-90	ESHM 6 T-90AB
Hose i.D. 10	42.5	17	33	9	6	68	ESHM 10 T-90	ESHM 10 T-90AB

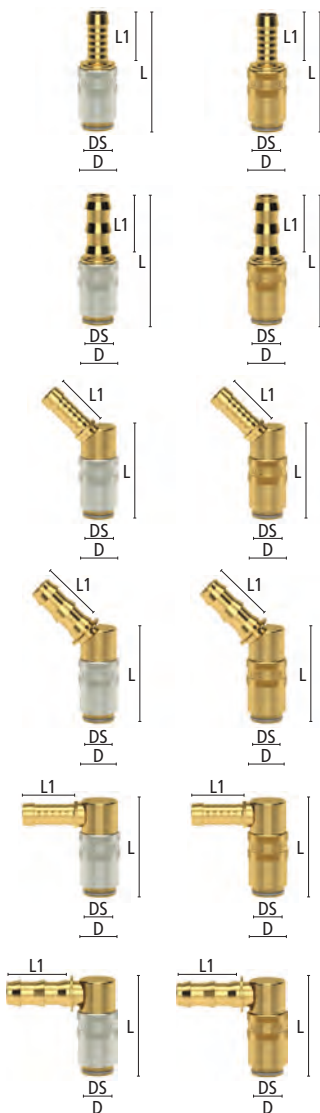
Marking rings for easy and clear identification of quick-fit hose lines

Version	D	Colour		Weight	Type No.
For Hose i.D. 6	14	blue	50	0.3	AR-BL 6
For Hose i.D. 6	14	red	50	0.3	AR-RO 6
For Hose i.D. 6	14	yellow	50	0.3	AR-GE 6
For Hose i.D. 10	17	blue	50	0.5	AR-BL 10
For Hose i.D. 10	17	red	50	0.5	AR-RO 10
For Hose i.D. 10	17	yellow	50	0.5	AR-GE 10

Simply put on coupling or plug stem before assembling the quick-fit hose

Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses – (© page 414 - 417)

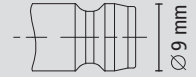
Safety instruction: Only use quick-fit hose stems in combination with suitable quick-fit hoses (up to max. 100°C)!



Temperature Regulation Quick Connect Couplings

plug size 9 mm **Series ESHM**

DN6

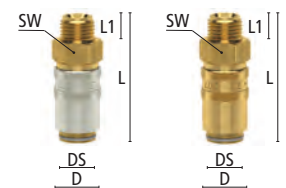


Plug Profile (original size)

Couplings with thread connection

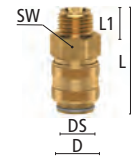
Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	48	17	17	9	9	6	60	ESHM 14 A	ESHM 14 AAB
G 3/8 m	48	19	17	9	9	6	70	ESHM 38 A	ESHM 38 AAB
M 10x1 m	46	17	17	7	9	6	60	ESHM 101 A	ESHM 101 AAB
M 14x1.5 m	48	17	17	9	9	6	60	ESHM 1415 A	ESHM 1415 AAB
M 16x1.5 m	48	19	17	9	9	6	70	ESHM 1615 A	ESHM 1615 AAB
G 1/4 m	52	17	17	11	9	6	65	ESHM 14 AL*	ESHM 14 ALAB
G 3/8 m	52	19	17	11	9	6	75	ESHM 38 AL*	ESHM 38 ALAB
M 14x1.5 m	52	17	17	11	9	6	65	ESHM 1415 AL*	ESHM 1415 ALAB



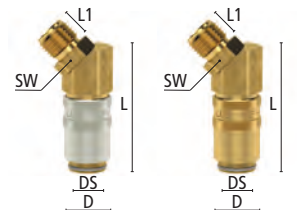
Couplings with straight male thread (short version) with valve

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No.
G 1/4 m	38	17	17	9	9	6	45	ESHM 14 AKAB



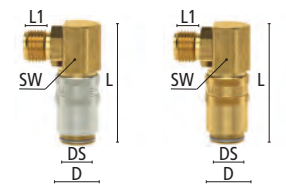
Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	47	17	17	9	9	6	65	ESHM 14 A-45	ESHM 14 A-45AB
G 3/8 m	47	19	17	10	9	6	75	ESHM 38 A-45	ESHM 38 A-45AB
M 10x1 m	47	17	17	7	9	6	65	ESHM 101 A-45	ESHM 101 A-45AB
M 14x1.5 m	47	17	17	9	9	6	65	ESHM 1415 A-45	ESHM 1415 A-45AB
M 16x1.5 m	47	19	17	9	9	6	75	ESHM 1615 A-45	ESHM 1615 A-45AB
G 3/8 m	47	19	17	11	9	6	80	ESHM 38 AL-45*	ESHM 38 AL-45AB*



Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	47	17	17	9	9	6	75	ESHM 14 A-90	ESHM 14 A-90AB
G 3/8 m	47	19	17	9	9	6	85	ESHM 38 A-90	ESHM 38 A-90AB
M 10x1 m	47	17	17	7	9	6	75	ESHM 101 A-90	ESHM 101 A-90AB
M 14x1.5 m	47	17	17	9	9	6	75	ESHM 1415 A-90	ESHM 1415 A-90AB
M 16x1.5 m	47	19	17	9	9	6	85	ESHM 1615 A-90	ESHM 1615 A-90AB
G 3/8 m	47	19	17	11	9	6	90	ESHM 38 AL-90*	ESHM 38 AL-90AB*



Couplings with straight female thread without/with valve

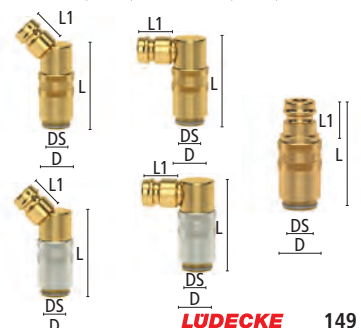
Thread connection	L	SW	D	L1	D1	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	41.5	17	17	9	9	6	50	ESHM 14 I	ESHM 14 IAB
G 3/8 f	42	21	17	9	9	6	60	ESHM 38 I	ESHM 38 IAB
M 10x1 f	41.5	17	17	9	9	6	50	ESHM 101 I	ESHM 101 IAB
M 14x1.5 f	41.5	17	17	9	9	6	50	ESHM 1415 I	ESHM 1415 IAB



Couplings with plug DN 9 - ESH System Adapters and ESHM-ESD System Adapter

Connection	L	D	L1	DS	Passage	System	Weight	Type No. w/o valve	Type No. w valve
DN 6 - DN 9	52	17	14	9	6	straight	75	ESHMK-ESHS	ESHMK-ESHS-AB
DN 6 - DN 9	49	17	14	9	6	45°	80	ESHMK-ESHS-45	ESHMK-ESHS-45AB
DN 6 - DN 9	47	17	14	9	6	90°	80	ESHMK-ESHS-90	ESHMK-ESHS-90AB
DN 6 - DN 6	52	17	10.5	9	6	straight	70	ESHMK-ESDMS	ESHMK-ESDMS-AB
DN 6 - DN 9	52	17	15.5	9	6	straight	75	ESHMK-ESDS	ESHMK-ESDS-AB

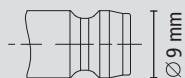
*Version AL with longer male thread mainly used for assembly with Ermeto-screwings.



Temperature Regulation Quick Connect Couplings

Series ESHM plug size 9 mm

DN6



Plug Profile (original size)



Diversion coupling for temperature regulation bridges with 90° tube connection without/ with valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 8/6	43	17	9	6	63	ESHM 8-U	ESHM 8-UAB

Tube (chamfered) for diversion couplings (temperature regulation tube), hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 8/6	250	8	6	45	TR 250-8
Tube 8/6	500	8	6	93	TR 500-8

Plain End Coupling

Connection	L	D	DS	Weight	Type No.
closed	30	17	9	37	ESHM-B

Plugs

Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 6	39.5	12	22.5	14	9	5	9	ESHM 6 SL
Hose i.D. 9	39.5	12	22.5	14	9	6	13	ESHM 9 SL
Hose i.D. 9	51.5	12	34.5	14	9	6	21	ESHM 9 SP**
Hose i.D. 13	39.5	16	22.5	14	9	6	17	ESHM 13 SL

Plugs with quick-fit hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 6	44	12	28	14	9	5	11	ESHM 6 S
Hose i.D. 10	44	16	28	14	9	6	18	ESHM 10 S

Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	24	11	7	14	9	6	10	ESHM 18 NA*
G 1/4 m	26	15	9	14	9	6	14	ESHM 14 NA*
G 3/8 m	27	17	9	14	9	6	18	ESHM 38 NA*
M 8x0.75 m	24	11	7	14	9	4.5	9	ESHM 875 NA
M 10x1 m	24	11	7	14	9	6	8	ESHM 101 NA
M 14x1.5 m	26	15	9	14	9	6	14	ESHM 1415 NA
M 16x1.5 m	26	17	9	14	9	6	18	ESHM 1615 NA

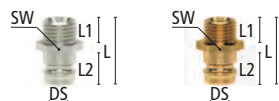
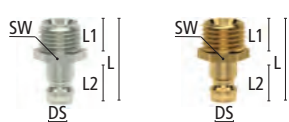
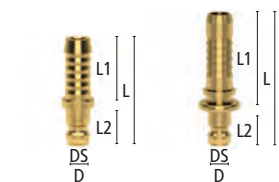
Plugs with straight male thread and inner hexagon without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	System	Type No.
G 1/8 m	24	11	7	14	9	6	10	SW5.19mm depth	ESHM 18 NAIB*
G 1/4 m	26	15	9	14	9	6	14	SW5.19mm depth	ESHM 14 NAIB*
M 10x1 m	24	11	7	14	9	6	8	SW5.19mm depth	ESHM 101 NAIB
M 14x1.5 m	26	15	9	14	9	6	14	SW5.19mm depth	ESHM 1415 NAIB

For easy assembly with Allen key countersunk in the tool

*Plugs with inch thread nickel-plated for simple distinction

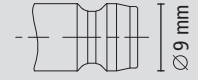
**crimping ferrules



Temperature Regulation Quick Connect Couplings

plug size 9 mm **Serie ESHM**

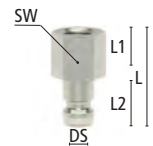
DN6



Plug Profile (original size)

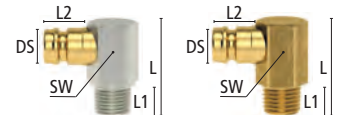
Plugs with straight female thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 f	27	14	9	14	9	6	15	ESHM 18 NI*
G 1/4 f	27	17	9	14	9	6	19	ESHM 14 NI*
G 3/8 f	27	19	10	14	9	6	25	ESHM 38 NI*



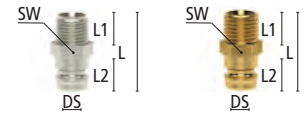
Plugs with 90° male thread without valve (metrical thread DIN 158/conical thread DIN 2999)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/8 m	27	15	9	14	9	6	35	ESHM 18 NA-90*
R 1/4 m	29	15	11	14	9	6	40	ESHM 14 NA-90*
R 3/8 m	30	17	12	14	9	6	44	ESHM 38 NA-90*
M 8x0.75 m	27	15	9	14	9	4.5	38	ESHM 875 NA-90
M 10x1 m	27	15	9	14	9	6	38	ESHM 101 NA-90
M 14x1.5 m	29	15	11	14	9	6	40	ESHM 1415 NA-90



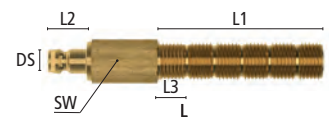
Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	36	15	8	14	9	6	13	ESHM 18 NAAB*
G 1/4 m	29	15	12	14	9	6	14	ESHM 14 NAAB*
G 3/8 m	30	17	12	14	9	6	22	ESHM 38 NAAB*
M 14x1.5 m	29	15	12	14	9	6	15	ESHM 1415 NAAB



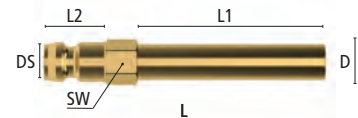
Plugs with straight male long thread without valve (for length cutting as needed)

Thread connection	L	SW	L1	L2	L3	DS	Passage	Weight	Type No.
G 1/8 m	100	11	60	14	10	9	6	36	ESHM 18-60 NA
G 1/4 m	100	14	60	14	10	9	6	58	ESHM 14-60 NA
G 3/8 m	100	17	60	14	10	9	6	90	ESHM 38-60 NA
M 10x1 m	100	11	60	14	10	9	6	36	ESHM 101-60 NA
M 14x1.5 m	100	14	60	14	10	9	6	61	ESHM 1415-60 NA



Plug Tubes for countersunk mould threads

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
8	63	9	42	14	9	5	14	ESHM 63 R
8	100	9	79	14	9	5	20	ESHM 100 R
10	63	11	42	14	9	6	20	ESHM 63 R10
10	100	11	79	14	9	6	58	ESHM 100 R10
10	120	11	99	14	9	6	49	ESHM 120 R
10	240	11	219	14	9	6	103	ESHM 240 R
10	360	11	339	14	9	6	157	ESHM 360 R
14	150	15	127	14	9	6	114	ESHM 150 R-14



System Adapters

Connection	L	L1	L2	DS	DS1	Weight	Type No.
DN 6 - DN 6	34	14	14	9	9	14	ESHM-ESHM
DN 9 - DN 6	34	14	14	13	9	18	ESH-ESHM
Protection cap (plastic) for plug profile ESHM					☐ 100		ESHM-K

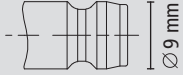


*Plugs with inch thread nickel-plated for simple distinction

Temperature Regulation Quick Connect Couplings

Series ESHMT Plug size 9 mm – High Resistant Special Brass
with Automatic Locking Mechanism

DN6



Plug Profile (original size)

- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and strengthened release sleeve made of high resistant special brass
- **For temperature regulation applications with hot or cold water as well as tempered oil**
- Optionally available with straight-through, single or double shut-off valves
- Versions with additional O-ring sealing at connection port to prevent leakage with high temperature applications

Materials

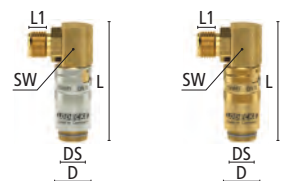
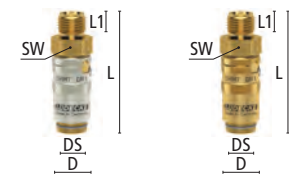
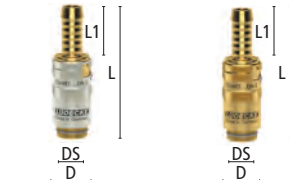
- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: High resistant special brass plain/ nickel-plated
- Spring, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: Special-Hitec-FKM-O-ring

Temp Secure
by **LUDECKE**



European
Plug Profile

Also in
Stainless Steel
Series ESHME
page 310



Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C to +200°C*	6	ISO 288/ DIN13	One-hand	single/double/straight-thr.	Tempered media	5

Couplings with hose connection

Couplings with straight standard hose barb without/ with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	61	18	22.5	9	6	58	ESHMT 9 TL	ESHMT 9 TLAB

Couplings with 45° standard hose stem without/ with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	54	18	22.5	9	6	82	ESHMT 9 TL45	ESHMT 9 TL45AB

Couplings with 90° standard hose stem without/ with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	54	18	22.5	9	6	91	ESHMT 9 TL90	ESHMT 9 TL90AB

Couplings with male connection

Couplings with straight male thread without /with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	58	17	18	11	9	6	73	ESHMT14AL	ESHMT14ALAB
G 3/8 m	57	19	18	11	9	6	76	ESHMT38AL	ESHMT38ALAB
M 14x1.5 m	58	17	18	11	9	6	76	ESHMT1415AL	ESHMT1415ALAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	54	17	18	11	9	6	85	ESHMT14AL45	ESHMT14AL45AB
M 14x1.5 m	54	17	18	11	9	6	87	ESHMT1415AL45	ESHMT1415AL45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	54	17	18	11	9	6	94	ESHMT14AL90	ESHMT14AL90AB
M 14x1.5 m	54	17	18	11	9	6	96	ESHMT1415AL90	ESHMT1415AL90AB

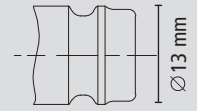
Other types / sizes on request!

Temperature Regulation Quick Connect Couplings

Plug size 13 mm **Series ESH**

- For temperature regulation applications with hot or cold water as well as tempered oil
- Optionally available with straight-through, single or double shut-off
- Hose couplings available with standard stem profile for standard hoses or quick-fit profile for quick-fit hoses
- All couplings available with disconnect-protection with surcharge: Just add „S“ on Type No.

DN 9



Plug Profile (original size)

Materials

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: Brass MS 58 plain/ nickel-plated
- Spring, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034 • O-rings: FKM (PTFE-coated)

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	9	ISO 228 / DIN 13	One-hand	single/double/straight-thr.	Tempered media	Coupl. 5 / Plug 10

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	61.5	22	25	13	7	72	ESH 9 TL	ESH 9 TLAB
Hose i.D. 13	61.5	22	25	13	9	81		ESH 13 TLAB
Hose i.D. 13	61.5	22	25	13	9	81	ESH 13 TL	

Coupling with straight quick-fit hose stem without/ with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 10	64.5	22	28	13	7	76	ESH 10 T	ESH 10 TAB
Hose i.D. 13	64.5	22	28	13	9	84	ESH 13 T	ESH 13 TAB

Couplings with 45° standard hose stem without/ with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	51	22	30	13	7	103	ESH 9 TL-45	ESH 9 TL-45AB
Hose i.D. 13	51	22	30	13	9	109	ESH 13 TL-45	ESH 13 TL-45AB

Coupling with 45° quick-fit hose stem without/ with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 10	51	22	33	13	7	108	ESH 10 T-45	ESH 10 T-45AB
Hose i.D. 13	51	22	33	13	9	111	ESH 13 T-45	ESH 13 T-45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	51	22	30	13	7	105	ESH 9 TL-90	ESH 9 TL-90AB
Hose i.D. 13	51	22	30	13	9	111	ESH 13 TL-90	ESH 13 TL-90AB

Couplings with 90° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 10	51	22	33	13	7	110	ESH 10 T-90	ESH 10 T-90AB
Hose i.D. 13	51	22	33	13	9	113	ESH 13 T-90	ESH 13 T-90AB

Marking rings for easy and clear identification of quick-fit hose lines

Version	D	Colour		Weight	Type No.
For Hose i.D. 10	17	blue	50	0.5	AR-BL 10
For Hose i.D. 10	17	red	50	0.5	AR-RO 10
For Hose i.D. 10	17	yellow	50	0.5	AR-GE 10
For Hose i.D. 13	20	blue	50	0.7	AR-BL 13
For Hose i.D. 13	20	red	50	0.7	AR-RO 13
For Hose i.D. 13	20	yellow	50	0.7	AR-GE 13

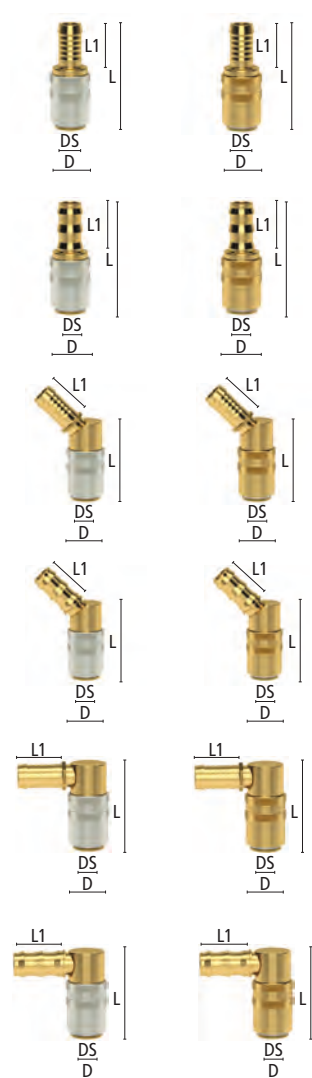
Simply put on coupling or plug stem before assembling the quick-fit hose

Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses (© page 414 - 417)

Safety instruction: Only use quick-fit hose stems in combination with suitable quick-fit hoses (up to max. 100°C)!

European
Plug Profile

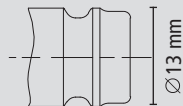
Also in
Stainless Steel
Series ESHME
page 311



Temperature Regulation Quick Connect Couplings

Series ESH plug size 13 mm

DN9



Plug profile (original size)

Couplings with thread connection

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	52	22	22	9	13	9	90	ESH 14 A	ESH 14 AAB
M 14x1.5 m	56	22	22	11	13	9	90	ESH 1415 A	ESH 1415 AAB
G 3/8 m	52	22	22	9	13	9	94	ESH 38 A	ESH 38 AAB
M 16x1.5 m	52	22	22	9	13	9	93	ESH 1615 A	ESH 1615 AAB
G 1/2 m	53	24	22	10	13	9	95	ESH 12 A	ESH 12 AAB
G 3/8 m	56	22	22	11	13	9	105	ESH 38 AL*	ESH 38 ALAB*
G 1/2 m	57	24	22	14	13	9	110	ESH 12 AL*	ESH 12 ALAB*
M 16x1.5 m	56	22	22	13	13	9	105	ESH 1615 AL*	ESH 1615 ALAB*
M 18x1.5 m	54	22	22	11	13	9	105	ESH 1815 A	ESH 1815 AAB

Couplings with straight male thread (short version) with valve

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	38	22	22	9	13	9	61	ESH 38 AK	ESH 38 AKAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
M 14x1.5 m	56	22	22	11	13	9	114	ESH 1415 A-45	ESH 1415 A-45AB
G 3/8 m	54	22	22	9	13	9	114	ESH 38 A-45	ESH 38 A-45AB
M 16x1.5 m	54	22	22	9	13	9	114	ESH 1615 A-45	ESH 1615 A-45AB
G 3/8 m	58	22	22	11	13	9	125	ESH 38 AL-45*	ESH 38 AL-45AB*

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
M 14x1.5 m	56	22	22	11	13	8	126	ESH 1415 A-90	ESH 1415 A-90AB
G 3/8 m	54	22	22	9	13	9	126	ESH 38 A-90	ESH 38 A-90AB
M 16x1.5 m	54	22	22	9	13	9	126	ESH 1615 A-90	ESH 1615 A-90AB
G 3/8 m	58	22	22	11	13	9	125	ESH 38 AL-90*	ESH 38 AL-90AB*

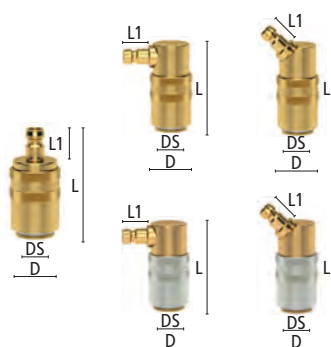
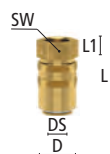
Couplings with straight female thread without/with valve

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	44.5	17	22	9	13	9	75	ESH 14 I	ESH 14 IAB
G 3/8 f	46	22	22	9	13	9	110	ESH 38 I	ESH 38 IAB
G 1/2 f	49	24	22	12	13	9	110	ESH 12 I	ESH 12 IAB

Couplings with Plugs DN 6 - ESHM - System Adaptor and ESH-ESD System Adaptor

Connection	L	D	L1	DS	Passage	Version	Weight	Type No. w/o valve	Type No. w valve
DN 9 - DN 6	51	22	14	13	6	straight	100	ESHK-ESHMS	ESHK-ESHMS-AB
DN 9 - DN 6	51	22	14	13	6	45°	100	ESHK-ESHMS-45	ESHK-ESHMS-45AB
DN 9 - DN 6	51	22	14	13	6	90°	100	ESHK-ESHMS-90	ESHK-ESHMS-90AB
DN 9 - DN 6	51	22	10.5	13	6	straight	85	ESHK-ESDMS	ESHK-ESDMS-AB
DN 9 - DN 9	51	22	15.5	13	9	straight	100	ESHK-ESDS	ESHK-ESDS-AB

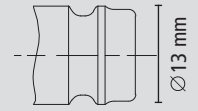
*Version AL with longer male thread mainly used for assembly with Ermeto-screwings



Temperature Regulation Quick Connect Couplings

plug size 13 mm **Series ESH**

DN9



Plug Profile (original size)

Diversion coupling for temperature regulation bridges with 90° tube connection without/ with valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 10/8	53	22	13	9	118	ESH 10-U	ESH 10-UAB

Tube (chamfered) for diversion couplings (temperature regulation tube), hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 10/8	250	10	8	60	TR 250-10
Tube 10/8	500	10	8	120	TR 500-10

Plain End Coupling

Connection	L	D	DS	Weight	Type No.
closed	37	22	13	67	ESH-B

Plugs

Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 9	39.5	14.5	22.5	14	13	7	23	ESH 9 SL
Hose i.D. 13	39.5	16	25	14	13	9	25	ESH 13 SL
Hose i.D. 13	53	20.5	36	14	13	9	29	ESH 13 SP**

Plugs with quick-fit hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 10	43.5	14.5	28	14	13	7	24	ESH 10 S
Hose i.D. 13	43.5	16	28	14	13	9	26	ESH 13 S

Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	24	15	7	14	13	6	16	ESH 18 NA*
G 1/4 m	26	15	9	14	13	9	17	ESH 14 NA*
G 3/8 m	26	17	9	14	13	9	22	ESH 38 NA*
G 1/2 m	31	22	12	14	13	9	42	ESH 12 NA*
G 3/4 m	35	27	16	14	13	9	110	ESH 34 NA*
M 10x1 m	24	15	7	14	13	6.5	14	ESH 101 NA
M 14x1.5 m	26	15	9	14	13	9	16	ESH 1415 NA
M 16x1.5 m	26	17	9	14	13	9	20	ESH 1615 NA
M 18x1.5 m	26	19	9	14	13	9	25	ESH 1815 NA

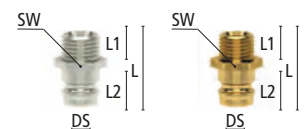
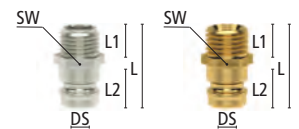
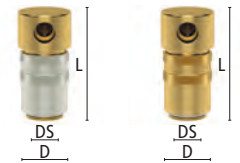
Plugs with straight male thread with inner Hexagon without valve

Thread	L	SW	L1	L2	DS	Passage	Weight	Version	Type No.
G 1/4 m	26	15	9	14	13	9	17	SW8.17mm depth	ESH 14 NAIB*
M 14x1.5 m	26	15	9	14	13	9	16	SW8.17mm depth	ESH 1415 NAIB

For easy assembly with key countersunk in the tool

*Plugs with inch thread nickel-plated for simple distinction

**ferrule crimping

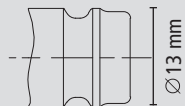


NEW!

Temperature Regulation Quick Connect Couplings

Series ESH plug size 13 mm

DN9



Plug Profile (original size)



Plugs with straight female thread without valve

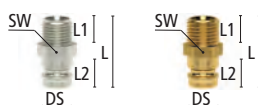
Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 3/8 f	33	19	10	14	13	9	42	ESH 38 NI*
G 1/2 f	35	19	10	14	13	9	55	ESH 12 NI*

Plugs with 90° male thread without valve (metrical thread DIN 158/ conical thread DIN 2999)



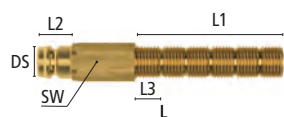
Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/4 m	34	17	11	25	13	9	45	ESH 14 NA-90*
M 14x1.5 m	34	17	11	25	13	9	47	ESH 1415 NA-90
R 3/8 m	35	17	12	25	13	9	45	ESH 38 NA-90*

Plugs with straight male thread with valve



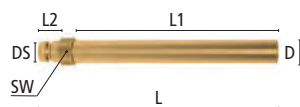
Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	30	15	11	14	13	6	24	ESH 14 NAAB*
G 3/8 m	31	17	12	14	13	9	28	ESH 38 NAAB*
G 1/2 m	31	22	12	14	13	9	48	ESH 12 NAAB*
M 14x1.5 m	30	15	11	14	13	6	26	ESH 1415 NAAB
M 16x1.5 m	31	17	12	14	13	9	28	ESH 1615 NAAB
M 18x1.5 m	30	19	12	14	13	9	30	ESH 1815 NAAB

Plugs with straight male long thread without valve (for length cutting as needed)



Thread connection	L	SW	L1	L2	L3	DS	Passage	Weight	Type No.
G 1/4 m	100	14	60	14	10	13	9	60	ESH 14-60 NA
G 1/4 m	57	15	34	14	16	13	9	38	ESH 14 NAL18
G 1/4 m	110	15	87	14	16	13	9	75	ESH 14 NAL71
G 3/8 m	100	17	60	14	10	13	9	91	ESH 38-60 NA
M 14x1.5 m	100	14	60	14	10	13	9	55	ESH 1415-60 NA
M 16x1.5 m	100	17	60	14	10	13	9	93	ESH 1615-60 NA

Plug Tubes for countersunk mould threads



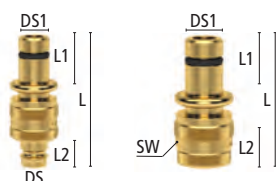
D	L	SW	L1	L2	DS	Passage	Weight	Type No.
14	150	15	127	14	13	9	114	ESH 150 R
14	300	15	277	14	13	9	210	ESH 300 R
10	150	11	127	14	13	6	65	ESH 150 R-10



Plug System - Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 9-DN 6	34	14	14	14	9	13	6	18	ESH-ESHM
DN 9-DN 9	34	14	14	14	13	13	9	24	ESH-ESH

Plugs with counterpart system "ARBURG" – System Adapters



System	Thread	L	SW	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 5 ESH-Arburg	-	64	-	22	14	13	14.8	9	77	ESH-ARB
Arburg	G 1/4 f	50	21	22	14	-	14.8	9	85	ARB 14 NI
Arburg	G 3/8 f	50	21	22	14	-	14.8	9	84	ARB 38 NI

Protection cap (plastic) for plug profile ESH 100 ESH-K

*Plugs with inch thread nickel-plated for simple distinction

Temperature Regulation Quick Connect Couplings

plug size 13 mm – High Resistant Special Brass **Series ESHT**

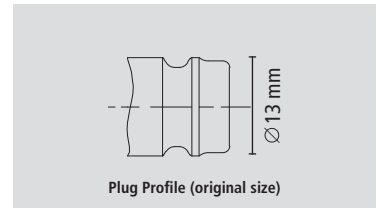
with Automatic Locking Mechanism

DN9

- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and very robust locking sleeve made of high resistant special brass
- For temperature regulation applications with hot or cold water as well as tempered oil
- Optionally available with straight-through, single or double shut-off
- Versions with additional O-ring sealing at connection port to prevent leakage in high temperature applications

Materials

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: High resistant special brass plain/ nickel-plated
- Spring, retaining ring: Stainless steel 1.4310
- O-rings: Special-Hitec-FKM-O-ring
- Balls: Stainless steel 1.4034



Temp Secure
by **LUDECKE**



European
Plug Profile

Also in
Stainless Steel
Series ESHT E
page 313

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	9	ISO 228 / DIN 13	One-hand	single/double/straight-thr.	Tempered media	5

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	63	23.5	25	13	9	81	ESHT 13 TL	ESHT 13 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	55	22	23.5	25	13	9	138	ESHT 13 TL45	ESHT 13 TL45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	SW	D	L1	D	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	55	22	23.5	25	13	9	140	ESHT 13 TL90	ESHT 13 TL90AB

Couplings with male threads

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	55	22	23.5	12.5	13	9	94	ESHT38AL	ESHT38ALAB
M 16x1.5 m	55	22	23.5	12.5	13	9	93	ESHT1615AL	ESHT1615ALAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	55	22	23.5	12.5	13	9	134	ESHT38AL45	ESHT38AL45AB
M 16x1.5 m	55	22	23.5	12	13	9	132	ESHT1615AL45	ESHT1615AL45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	55	22	23.5	12.5	13	9	134	ESHT38AL90	ESHT38AL90AB
M 16x1.5 m	55	22	23.5	12	13	9	132	ESHT1615AL90	ESHT1615AL90AB

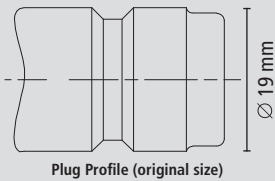
Other types / sizes on request!



Temperature Regulation Quick Connect Couplings

Series ESHG plug size 19 mm

DN 13



European
Plug Profile

- For temperature regulation applications with hot or cold water as well as tempered oil.
- Optional with straight-through, single or double shut-off
- Hose couplings available with standard stem profile for standard hoses or quick-fit profile for quick-fit hoses
- All couplings available with disconnect-protection with a surcharge. Just add "S" on Type No.

Materials

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: Brass MS 58 plain/ nickel-plated
- O-rings: FKM (PTFE-coated)
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	13	ISO 228 / DIN 13	One-hand	single/double/straight-thr.	Tempered media	Coupl. 1 / Plug 5

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	83	31	25	19	9	200	ESHG 13 TL	ESHG 13 TLAB
Hose i.D. 19	92	31	34	19	13	222	ESHG 19 TL	ESHG 19 TLAB

Couplings with straight quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 16	96	31	38	19	13	222	ESHG 16 T	ESHG 16 TAB
Hose i.D. 19	96	31	38	19	13	240	ESHG 19 T	ESHG 19 TAB

Couplings with 45° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 16	82	31	38	19	13	320	ESHG 16 T-45	ESHG 16 T-45AB

Couplings with 90° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 16	82	31	38	19	13	320	ESHG 16 T-90	ESHG 16 T-90AB

Couplings with straight hose stem – short version without one-hand principle and without valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 19	71	31	34	19	13	170	ESHG 19 TLK	ESHG 19 TL-90AB

Couplings with straight quick fit hose stem – short version without one-hand principle and without valve

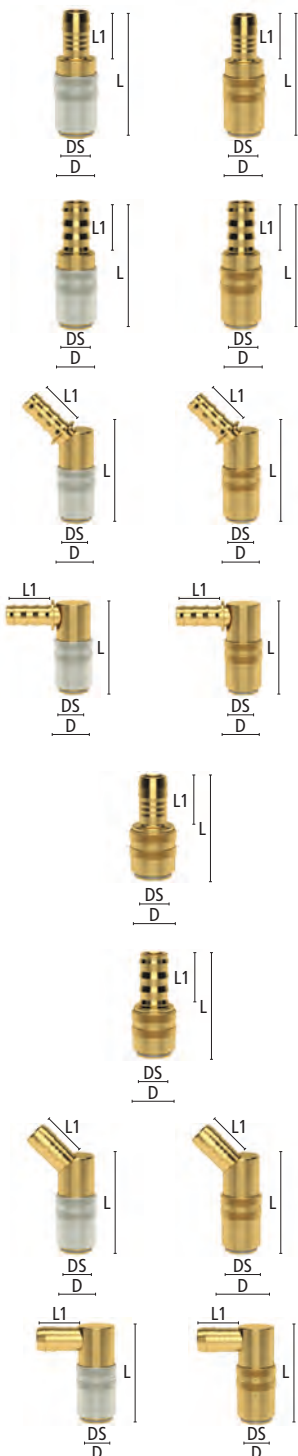
Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve
Hose i.D. 16	75	31	38	19	13	163	ESHG 16 TK
Hose i.D. 19	75	31	38	19	13	180	ESHG 19 TK

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 19	78	31	36	19	13	305	ESHG 19 TL-45	ESHG 19 TL-45AB

Couplings with 90° standard hose stem without/with valve

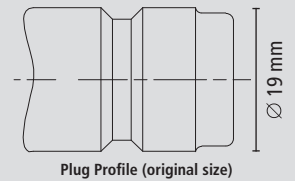
Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 19	78	31	34	19	13	310	ESHG 19 TL-90	ESHG 19 TL-90AB



Temperature Regulation Quick Connect Couplings

plug size 19 mm **Series ESHG**

DN 13



Couplings with thread connection

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/2 m	74	30	31	12	19	13	228	ESHG 12 A	ESHG 12 AAB
M 24x1.5 m	78	30	31	16	19	13	250	ESHG 2415 A	ESHG 2415 AAB
G 3/4 m	78	30	31	16	19	13	250	ESHG 34 A	ESHG 34 AAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
M 24x1.5 m	80	30	31	18	19	13	328	ESHG 2415 A-45	ESHG 2415 A-45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
M 24x1.5 m	80	30	31	18	19	13	338	ESHG 2415 A-90	ESHG 2415 A-90AB

Couplings with straight female thread without/with valve

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/4 m	78	33	31	16	19	13	270	ESHG 34 I	ESHG 34 IAB

Diversion coupling for temperature regulation bridges with 90° tube connection without/ with valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 14/12	80	31	19	12	350	ESHG 14-U	ESHG 14-UAB

Tube (chamfered) for diversion couplings (temperature regulation tube) hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 14/12	500	14	12	170	TR 500-14

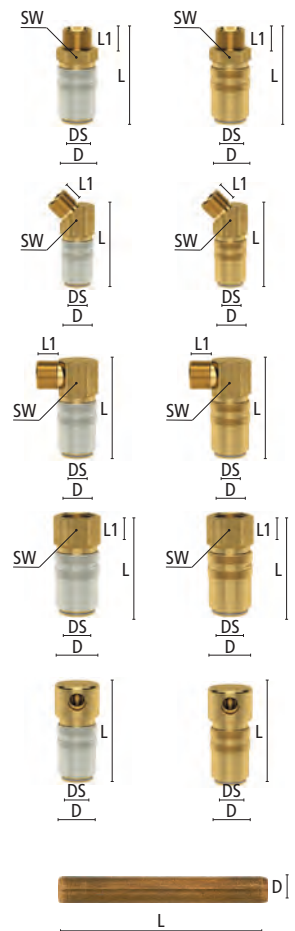
Marking rings for easy and clear identification of quick-fit hose lines

Version	D	Color	Weight	Type No.
For Hose i.D. 16	25	blue	10	AR-BL 16
For Hose i.D. 16	25	red	10	AR-RO 16
For Hose i.D. 16	25	yellow	10	AR-GE 16

Simply put on coupling or plug stem before assembling the quick-fit hose

Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses (© page 414 - 417)

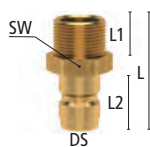
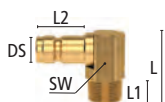
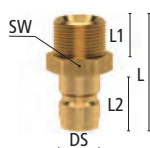
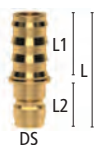
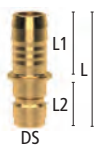
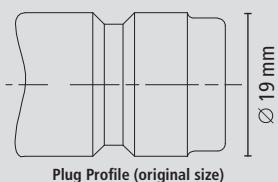
Safety instruction: Only use quick-fit hose stems in combination with suitable quick-fit hoses (up to max. 100°C)!



Temperature Regulation Quick Connect Couplings

Series ESHG plug size 19 mm

DN 13



Plugs

Plugs with standard hose stem without valve

Hose connection	L	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 13	54	25	27	19	9	52	ESHG 13 SL
Hose i.D. 19	63	34	27	19	13	81	ESHG 19 SL

Plugs with quick-fit hose stem without valve

Hose connection	L	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 16	67	38	27	19	13	63	ESHG 16 S
Hose i.D. 19	67	38	27	19	13	93	ESHG 19 S

Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/2 m	47	22	12	27	19	13	64	ESHG 12 NA*
G 3/4 m	51	27	16	27	19	13	107	ESHG 34 NA*
M 24x1.5 m	51	27	16	27	19	13	97	ESHG 2415 NA

Plugs with 90° male thread without valve (metrical thread DIN 158/conical thread DIN 2999)

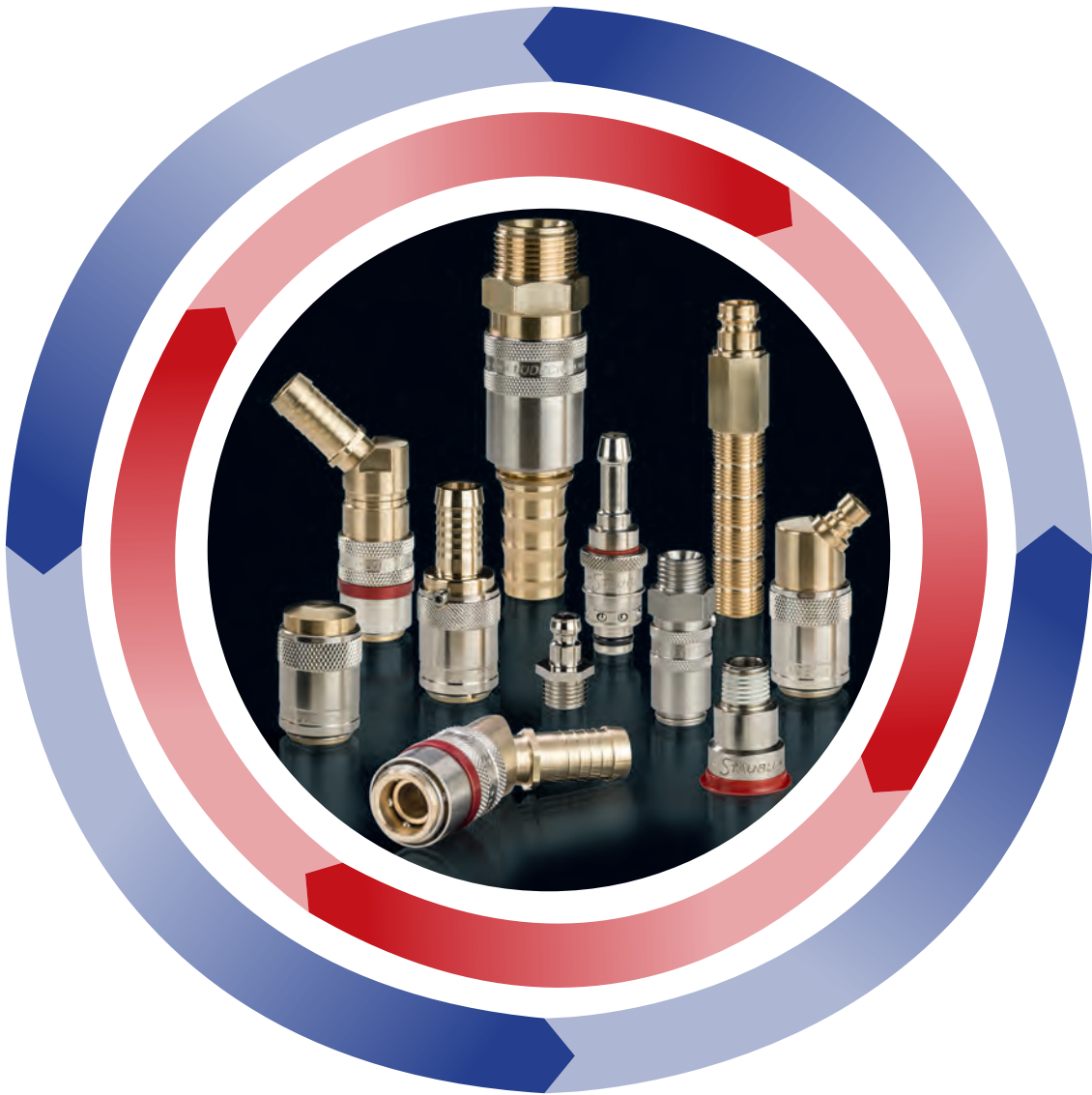
Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/2 m	47	24	16	27	19	13	100	ESHG 12 NA-90*
M 24x1.5 m	47	24	16	27	19	13	105	ESHG 2415 NA-90

Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/2 m	47	22	12	27	19	13	84	ESHG 12 NAAB*
G 3/4 m	51	27	16	27	19	13	90	ESHG 34 NAAB*
M 24x1.5 m	51	27	16	27	19	13	86	ESHG 2415 NAAB

Protection cap (plastic) for plug profile ESHG  100 ESHG-K

*Plugs with inch thread nickel-plated for simple distinction



Temperature Regulation Quick Connect Couplings

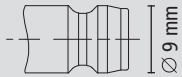
Series ESHME plug size 9 mm - Stainless Steel 1.4305

DN 6

- For temperature regulation applications with hot or cold water as well as tempered oil i.e. in clean-room production
- Optional with straight-through, single or double shut-off
- All couplings available with disconnect-protection with a surcharge. Just add "S" on Type No.

Materials

- Body, sleeve, valve body, valve, plug: Stainless steel 1.4305
- Springs, retaining rings: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: FKM (PTFE-coated)



Plug Profile (original size)

European Plug Profile



Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	6	ISO 228 / DIN 13	One-hand	single/double/straight-thr.	Tempered media	Coupl. 1 / Plug 5

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	53	17	22.5	9	6	45	ESHME 9 TL	ESHME 9 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	42.5	17	25.5	9	6	62	ESHME 9 TL-45	ESHME 9 TL-45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	42.5	17	25.5	9	6	62	ESHME 9 TL-90	ESHME 9 TL-90AB

Couplings with thread connection

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	48	17	17	9	9	6	60	ESHME 14 A	ESHME 14 AAB
M 14x1.5 m	48	17	17	9	9	6	60	ESHME 1415 A	ESHME 1415 AAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	47	16	17	9	9	6	65	ESHME 14 A-45	ESHME 14 A-45AB
M 14x1.5 m	47	16	17	9	9	6	65	ESHME 1415 A-45	ESHME 1415A-45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	47	16	17	9	9	6	75	ESHME 14 A-90	ESHME 14 A-90AB
M 14x1.5 m	47	16	17	9	9	6	75	ESHME 1415 A-90	ESHME 1415A-90AB

Safe connection of individual coupling parts due to special glue and additional FKM-O-ring sealing.

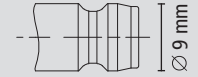
Other types / sizes on request!

Suitable hose clips (☺ page 416), double-ear hose clips (☺ page 414) or crimping ferrules for standard hoses (☺ page 418)

Temperature Regulation Quick Connect Couplings

plug size 9 mm - Stainless Steel 1.4305 **Series ESHME**

DN6



Plug Profile (original size)

Plugs

Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 9	39.5	12	22.5	14	9	6	13	ESHME 9 SL

Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	24	11	7	14	9	6	10	ESHME 18 NA
G 1/4 m	26	15	9	14	9	6	14	ESHME 14 NA
G 3/8 m	27	17	9	14	9	6	18	ESHME 38 NA
M 8x0.75 m	24	11	7	14	9	4.5	9	ESHME 875 NA
M 10x1 m	24	11	7	14	9	6	8	ESHME 101 NA
M 14x1.5 m	26	15	9	14	9	6	14	ESHME 1415 NA
M 16x1.5 m	26	17	9	14	9	6	18	ESHME 1615 NA

Plugs with straight male thread with valve

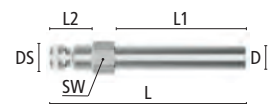
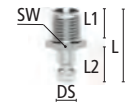
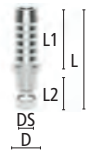
Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	29	15	12	14	9	6	14	ESHME 14 NAAB
G 3/8 m	30	17	12	14	9	6	22	ESHME 38 NAAB
M 14x1.5 m	29	15	12	14	9	6	15	ESHME 1415 NAAB

Plug System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 6 - DN 6	34	12	14	14	9	9	6	15	ESHME-ESHME
DN 6 - DN 9	34	14	14	14	9	13	6	19	ESHME-ESHE

Plug Tubes for countersunk mould threads

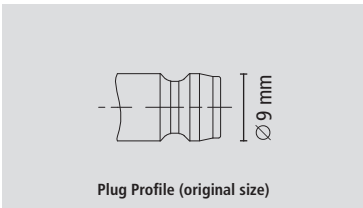
D	L	SW	L1	L2	DS	Passage	Weight	Type No.
8	63	9	42	14	9	6	14	ESHME 63 R
8	100	9	79	14	9	6	20	ESHME 100 R
10	120	11	99	14	9	6	49	ESHME 120 R



Temperature Regulation Quick Connect Couplings

Series ESHMTE plug size 9 mm – Stainless Steel with Automatic Locking Mechanism

DN6



European Plug Profile



- Forced guidance design with visual colour coding at the locking sleeve
- Combined pressure-torsion spring and very robust locking sleeve made of stainless steel
- For temperature regulation applications with hot or cold water as well as tempered oil i.e. in clean-room production
- Optional with straight-through, single or double shut-off
- Versions with additional O-ring sealing at connection port to prevent leakage in high temperature applications

Materials

- Body, sleeve, valve body, valve, plug: stainless steel 1.4305
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: Special-Hitec-FKM-O-ring

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	6	ISO 228/ DIN 13	One-hand	single/double/straight-thr.	Tempered media	5

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	61	18	22.5	9	6	54	ESHMTE 9 TL	ESHMTE 9 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	54	18	22.5	9	6	79	ESHMTE 9 TL45	ESHMTE 9 TL45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	56	18	22.5	9	6	88	ESHMTE 9 TL90	ESHMTE 9 TL90AB

Couplings with male threads

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	56.5	17	18	11	9	6	67	ESHMTE14AL	ESHMTE14ALAB
M 14x1.5 m	56.5	17	18	11	9	6	68	ESHMTE1415AL	ESHMTE1415ALAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	52	17	18	11	9	6	83	ESHMTE14AL45	ESHMTE14AL45AB
M 14x1.5 m	52	17	18	11	9	6	84	ESHMTE1415AL45	ESHMTE1415AL45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	56	17	18	11	9	6	92	ESHMTE14AL90	ESHMTE14AL90AB
M 14x1.5 m	56	17	18	11	9	6	93	ESHMTE1415AL90	ESHMTE1415AL90AB

other types / sizes on request!

Temperature Regulation Quick Connect Couplings

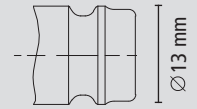
plug size 13 mm – Stainless Steel 1.4305 **Series ESHE**

- For temperature regulation applications with hot or cold water as well as tempered oil i.e. in clean-room production
- Optional with straight-through, single or double shut-off
- All couplings available with disconnect-protection with a surcharge. Just add "S" on Type No.

Materials

- Body, sleeve, valve body, valve, plug: Stainless steel 1.4305
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: FKM (PTFE-coated)

DN9



Plug Profile (original size)

European Plug Profile

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	9	ISO 228 / DIN 13	One-hand	single/double/straight-thr.	Tempered media	Coupl. 1 / Plug 5

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	61.5	22	25	13	9	81	ESHE 13 TL	ESHE 13 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	51	22	30	13	9	109	ESHE 13 TL-45	ESHE 13 TL-45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	51	22	30	13	9	111	ESHE 13 TL-90	ESHE 13 TL-90AB

Couplings with thread connection

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	52	22	22	9	13	9	94	ESHE 38 A	ESHE 38 AAB
M 16x1.5 m	52	22	22	9	13	9	93	ESHE 1615 A	ESHE 1615 AAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	54	19	22	9	13	9	114	ESHE 38 A-45	ESHE 38 A-45AB
M 16x1.5 m	54	19	22	9	13	9	114	ESHE 1615 A-45	ESHE 1615 A-45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	54	19	22	9	13	9	126	ESHE 38 A-90	ESHE 38 A-90AB
M 16x1.5 m	54	19	22	9	13	9	126	ESHE 1615 A-90	ESHE 1615 A-90AB

Couplings with straight female thread without/ with valve

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	44.5	17	22	9	13	9	102	ESHE 14 I	ESHE 14 IAB
G 3/8 f	46	22	22	9	13	9	104	ESHE 38 I	ESHE 38 IAB

Safe connection of individual coupling parts due to special glue and additional FKM-O-ring sealing.

Other types / sizes on request!

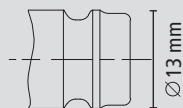
Suitable hose clips (☺ page 416), double-ear hose clips (☺ page 414) or crimping ferrules for standard hoses (☺ page 418)



Temperature Regulation Quick Connect Couplings

Series ESHE plug size 13 mm – Stainless Steel 1.4305

DN9



Plug Profile (original size)



Plugs

Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 13	39.5	16	25	14	13	9	25	ESHE 13 SL

Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	26	15	9	14	13	9	17	ESHE 14 NA
G 3/8 m	26	17	9	14	13	9	22	ESHE 38 NA
G 1/2 m	31	22	12	14	13	9	22	ESHE 12 NA
M 14x1.5 m	26	15	9	14	13	9	16	ESHE 1415 NA
M 16x1.5 m	26	17	9	14	13	9	20	ESHE 1615 NA

Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	30	15	11	14	13	9	21	ESHE 14 NAAB
G 3/8 m	29	17	12	14	13	9	23.5	ESHE 38 NAAB
M 16x1.5 m	29	17	12	14	13	9	23	ESHE 1615 NAAB

Plug System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 6 – DN 9	34	14	14	14	9	13	6	19	ESHME-ESHE
DN 9 – DN 9	34	14	14	14	13	13	9	25	ESHE-ESHE

Plug Tubes for countersunk mould threads

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
14	150	15	127	14	13	9	109	ESHE 150 R



Temperature Regulation Quick Connect Couplings

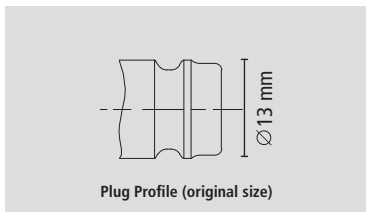
plug size 13 mm – Stainless Steel with Automatic Locking Mechanism **Series ESHTe**

- Forced guidance design with visual colour coding at the locking sleeve
- Combined pressure-torsion spring and very robust locking sleeve made of stainless steel
- For Temperature Regulation applications with hot or cold water as well as tempered oil i.e. in clean-room production
- Optional with straight-through, single or double shut-off
- Versions with additional O-ring sealing at connection port to prevent leakage in high temperature applications

Materials

- Body, sleeve, valve body, valve, plug: Stainless steel 1.4305
- Spring, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-Rings: Special-Hitec-FKM-O-ring

DN9



European Plug Profile

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	9	ISO 228/ DIN 13	One-hand	single/double/straight-thr.	Tempered media	5

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	63	23.5	25	13	9	77	ESHTe 13 TL	ESHTe 13 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	55.5	22	23.5	25	13	9	134	ESHTe 13 TL45	ESHTe 13 TL45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	55.5	22	23.5	25	13	9	134	ESHTe 13 TL90	ESHTe 13 TL90AB

Couplings with male thread

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	56	22	23.5	12.5	13	9	95	ESHTe38AL	ESHTe38ALAB
M 16x1.5 m	56	22	23.5	12.5	13	9	94	ESHTe1615AL	ESHTe1615ALAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

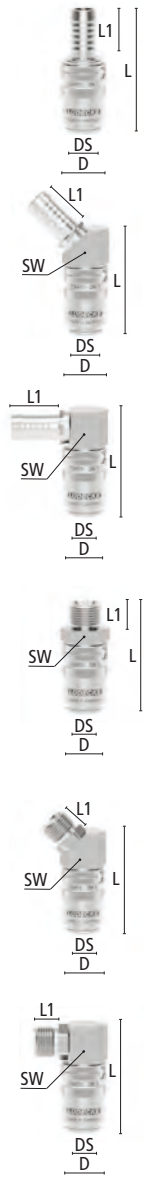
Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	55.5	22	23.5	12.5	13	9	131	ESHTe38AL45	ESHTe38AL45AB
M 16x1.5 m	55.5	22	23.5	12.5	13	9	129	ESHTe1615AL45	ESHTe1615AL45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	55.5	22	23.5	12.5	13	9	131	ESHTe38AL90	ESHTe38AL90AB
M 16x1.5 m	55.5	22	23.5	12.5	13	9	129	ESHTe1615AL90	ESHTe1615AL90AB

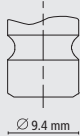



Other sizes on request

*depends on media (Oil: 200°C, Water: 160°C, Air: 200°C)



Overview of the Quick Connect Couplings with

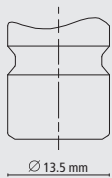


Series	ESDM DN 6	ESDMT DN 6	ESDMF DN 6
Plug profile (original size)			
			
			
Materials:			
Body:	Brass MS 58 plain	Brass MS 58 plain	Brass MS 58 plain
Sleeve*:	Brass MS 58 (plain/nickel-pl.)	Brass MS 58 plain	Brass MS 58 (plain/ nickel-plated)
Valve Body:	Brass MS 58 plain	Brass MS 58 plain	Brass MS 58 plain
Valve:	Brass MS 58 plain	Brass MS 58 plain	Brass MS 58 plain
Springs, Retaining Ring:	Stainless steel 1.4310	Stainless steel 1.4310	Stainless steel 1.4310
Balls:	Stainless steel 1.4034	Stainless steel 1.4034	Stainless steel 1.4034
Seals:	Spezial-Hitec-FKM-O-Ring	Special-Hitec-FKM-O-ring	FKM (flat sealing)
Special seals for other media on request:	EPDM, FFKM	EPDM, FFKM	
Plug:	Brass MS 58 (plain/nickel-pl.)	Brass MS 58 (plain/nickel-pl.)	Brass MS 58 (plain/nickel-pl.)
Max. Working Pressure:	PN 15 bar	PN 15 bar	PN 15 bar
Temperature:	-20°C– +200°C**	-20°C– +200°C***	-20°C– +200°C**
Thread Types:	ISO 228, DIN 13	ISO 228, DIN 13	ISO 228, DIN 13
Flow rate:	see chart p. 143	see chart p. 143	see chart p. 143
Connection:	straight/45°/90°	straight/45°/90°	straight/45°/90°
Type of Valve:	single/double/straight-through	single/double/straight-through	single/double/straight-through
Operation:	One-hand	One-hand	Two-hands
Page:	170	174	175

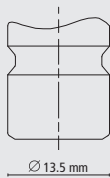
International Plug Profiles



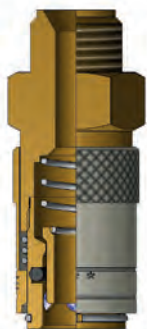
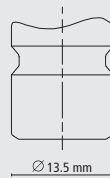
ESD
DN 9



ESDT
DN 9



ESDF
DN 9



Brass MS 58 plain
Brass MS 58 (plain/nickel-plated)
Brass MS 58 plain
Brass MS 58 plain

Stainless steel 1.4310
Stainless steel 1.4034

Special-Hitec-FKM-O-ring

EPDM, FFKM

Brass MS 58 (plain/nickel-pl.)

PN 15 bar

-20°C– +200°C**

ISO 228, DIN 13

see chart p. 143

straight/45°/90°

single/double/straight-through

One-hand

179

Brass MS 58 plain
hrsb (plain/nickel-plated)
Brass MS 58 plain
Brass MS 58 plain

Stainless steel 1.4310
Stainless steel 1.4034

Special-Hitec-FKM-O-ring

EPDM, FFKM

Brass MS 58 (plain/nickel-pl.)

PN 15 bar

-20°C– +200°C***

ISO 228, DIN 13

see chart p. 143

straight/45°/90°

single/double/straight-through

Two-hands

183

Brass MS 58 plain
Brass MS 58 (plain/nickel-plated)
Brass MS 58 plain
Brass MS 58 plain

Stainless steel 1.4310
Stainless steel 1.4034

FKM (flat sealing)

Brass MS 58 (plain/nickel-pl.)

PN 15 bar

-20°C– +200°C**

ISO 228, DIN 13

see chart p. 143

straight/45°/90°

single/double/straight-through

Two-hands

184

*coupling with valve: Brass MS plain, coupling without valve: Brass MS nickel-plated

**subject to media (oil: 200°C, water: 150°C, air: 200°C)

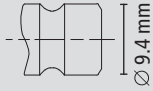
***subject to media (oil: 200°C, water: 160°C, air: 200°C)

hrsb: High Resistant Special Brass

Temperature Regulation Quick Connect Couplings

Series ESDM plug size 9.4 mm

DN6



Plug Profile (original size)

International Plug Profile

- Couplings with O-ring-Sealing and one-hand operation
- For temperature regulation applications with hot or cold water as well as tempered oil
- Optional with straight-through, single or double shut-off
- Hose couplings available with standard stem profile for standard hoses (quick-fit profile for quick-fit hoses on request)
- All couplings available with disconnect-protection with a surcharge. Just add "S" on Type No.

Materials

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: Brass MS 58 plain/ nickel-plated
- Spring, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: FKM (PTFE-coated)

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	6	ISO 228 / DIN 13	One-hand	single/double/straight-thr.	Tempered media	Coupl. 5 / Plug 10

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	51	17	22.5	9.4	5	40	ESDM 6 TL	ESDM 6 TLAB
Hose i.D. 9	51	17	22.5	9.4	6	45	ESDM 9 TL	
Hose i.D. 9	51	17	22.5	9.4	6	45		ESDM 9 TLAB
Hose i.D. 13	53	17	25	9.4	6	54	ESDM 13 TL	ESDM 13 TLAB

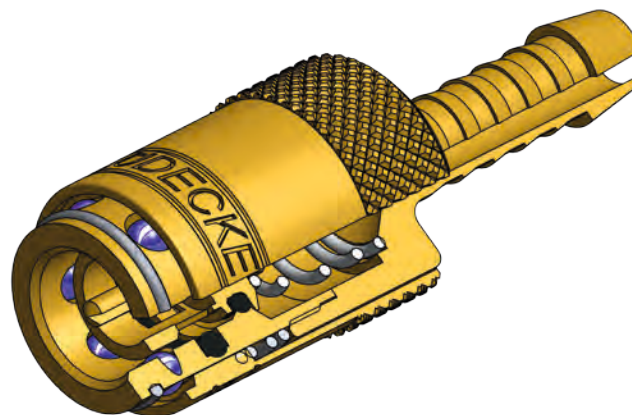
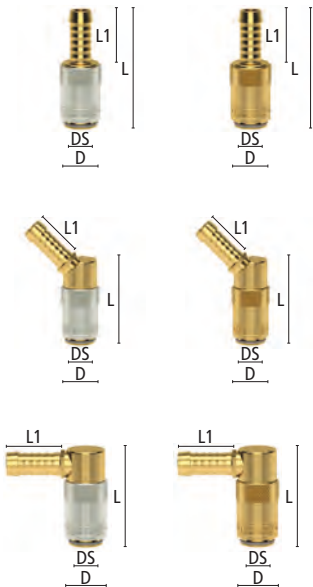
Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	40.5	17	25.5	9.4	5	58	ESDM 6 TL-45	ESDM 6 TL-45AB
Hose i.D. 9	40.5	17	25.5	9.4	6	62	ESDM 9 TL-45	ESDM 9 TL-45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	40.5	17	25.5	9.4	5	58	ESDM 6 TL-90	ESDM 6 TL-90AB
Hose i.D. 9	40.5	17	25.5	9.4	6	62	ESDM 9 TL-90	ESDM 9 TL-90AB

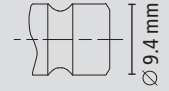
Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses – (© page 414 - 417)



Temperature Regulation Quick Connect Couplings

plug size 9.4 mm **Series ESDM**

DN6



Plug Profile (original size)

Couplings with thread connection

Couplings with straight male thread without/with valve (inner cone DIN 3863)

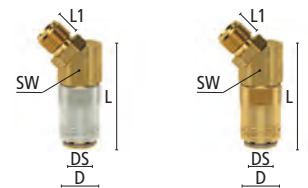
Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	46	17	17	9	9.4	6	60	ESDM 14 A	ESDM 14 AAB
G 3/8 m	46	19	17	9	9.4	6	70	ESDM 38 A	ESDM 38 AAB
M 10x1 m	44	17	17	7	9.4	6	60	ESDM 101 A	ESDM 101 AAB
M 14x1.5 m	46	17	17	9	9.4	6	60	ESDM 1415 A	ESDM 1415 AAB
M 16x1.5 m	46	19	17	9	9.4	6	70	ESDM 1615 A	ESDM 1615 AAB
G 1/4 m	50	17	17	13	9.4	6	61	ESDM 14 AL	ESDM 14 ALAB
G 3/8 m	50	19	17	13	9.4	6	75	ESDM 38 AL	ESDM 38 ALAB
M 14x1.5 m	50	17	17	13	9.4	6	65	ESDM 1415 AL	ESDM 1415 ALAB

Version AL with longer male thread mainly used for assembly with Ermeto screwings.



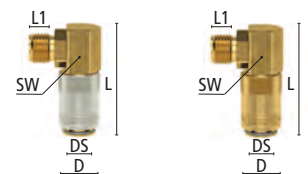
Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	45	17	17	9	9.4	6	65	ESDM 14 A-45	ESDM 14 A-45AB
G 3/8 m	45	19	17	9	9.4	6	75	ESDM 38 A-45	ESDM 38 A-45AB
M 10x1 m	45	17	17	7	9.4	6	65	ESDM 101 A-45	ESDM 101 A-45AB
M 14x1.5 m	45	17	17	9	9.4	6	65	ESDM 1415 A-45	ESDM 1415 A-45AB
M 16x1.5 m	45	19	17	9	9.4	6	75	ESDM 1615 A-45	ESDM 1615 A-45AB



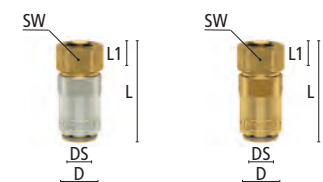
Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	45	17	17	9	9.4	6	75	ESDM 14 A-90	ESDM 14 A-90AB
G 3/8 m	45	19	17	9	9.4	6	85	ESDM 38 A-90	ESDM 38 A-90AB
M 10x1 m	45	17	17	7	9.4	6	75	ESDM 101 A-90	ESDM 101 A-90AB
M 14x1.5 m	45	17	17	9	9.4	6	75	ESDM 1415 A-90	ESDM 1415 A-90AB
M 16x1.5 m	45	19	17	9	9.4	6	85	ESDM 1615 A-90	ESDM 1615 A-90AB



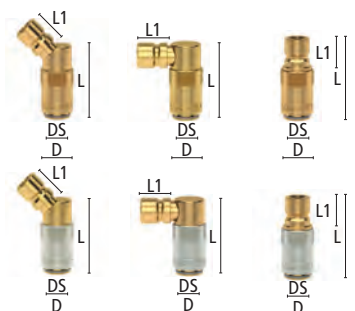
Couplings with straight female thread without/with valve

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	40	17	17	9	9.4	6	50	ESDM 14 I	ESDM 14 IAB
G 3/8 f	40	21	17	9	9.4	6	54	ESDM 38 I	ESDM 38 IAB
M 10x1 f	40	17	17	9	9.4	6	50	ESDM 101 I	ESDM 101 IAB
M 14x1.5 f	40	17	17	9	9.4	6	50	ESDM 1415 I	ESDM 1415 IAB



Couplings with plug DN 9 - ESDM and ESDM-ESHM System Adapters

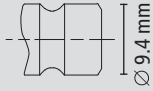
Connection	L	D	L1	DS	Passage	Version	Weight	Type No. w/o valve	Type No. w valve
DN 6 - DN 9	50.5	17	15.5	9.4	6	straight	75	ESDMK-ESDS	ESDMK-ESDS-AB
DN 6 - DN 9	45	17	15.5	9.4	6	45°	80	ESDMK-ESDS-45	ESDMK-ESDS-45 AB
DN 6 - DN 9	45	17	15.5	9.4	6	90°	80	ESDMK-ESDS-90	ESDMK-ESDS-90 AB
DN 6 - DN 6	50	17	14	9.4	6	straight	70	ESDMK-ESHMS	ESDMK-ESHMS-AB
DN 6 - DN 9	50	17	14	9.4	6	straight	75	ESDMK-ESHS	ESDMK-ESHS-AB



Temperature Regulation Quick Connect Couplings

Series ESDM plug size 9.4 mm

DN6



Plug Profile (original size)



Diversion coupling for temperature regulation bridges for tube connection 90° with/without valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 8/6	41	17	9.4	6	63	ESDM 8-U	ESDM 8-UAB



Tube (chamfered) for diversion couplings (temperature regulation tube). hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 8/6	250	8	6	45	TR 250-8
Tube 8/6	500	8	6	93	TR 500-8



Plain End Coupling

Connection	L	D	DS	Weight	Type No.
closed	30	17	9.4	37	ESDM-B

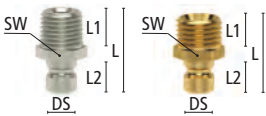
Plugs



Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 6	39.5	12	22.5	10.5	9.4	5	9	ESDM 6 SL
Hose i.D. 9	39.5	12	22.5	10.5	9.4	6	13	ESDM 9 SL
Hose i.D. 13	39.5	15	22.5	10.5	9.4	6	17	ESDM 13 SL

Plugs with straight male thread without valve (inner cone DIN 3863)



Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	22	11	8	10.5	9.4	6	10	ESDM 18 NA*
R 1/8 m	25	11	11	10.5	9.4	6	12	ESDM 18 NAR*
G 1/4 m	23	14	9	10.5	9.4	6	14	ESDM 14 NA*
R 1/4 m	26	14	12	10.5	9.4	6	16	ESDM 14 NAR*
G 3/8 m	23.5	17	9	10.5	9.4	6	18	ESDM 38 NA*
M 8x0.75 m	20.5	11	7	10.5	9.4	4.5	9	ESDM 875 NA
M 10x1 m	22	11	7	10.5	9.4	6	8	ESDM 101 NA
M 14x1.5 m	23	14	9	10.5	9.4	6	10	ESDM 1415 NA
M 16x1.5 m	23	17	9	10.5	9.4	6	18	ESDM 1615 NA



Plugs with straight female thread without valve

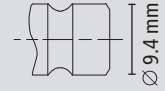
Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 f	22	14	9	10.5	9.4	6	15	ESDM 18 NI*
G 1/4 f	23	17	9	10.5	9.4	6	19	ESDM 14 NI*
G 3/8 f	23	19	10	10.5	9.4	6	25	ESDM 38 NI*

*Plugs with inch thread nickel-plated for simple distinction

Temperature Regulation Quick Connect Couplings

plug size 9.4 mm **Serie ESDM**

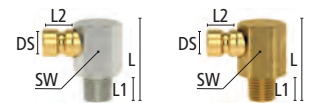
DN6



Plug Profile (original size)

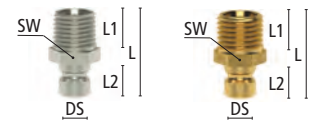
Plugs with 90° male thread without valve (metrical thread DIN 158/conical thread DIN 2999)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/8 m	27	15	9	10.5	9.4	6	35	ESDM 18 NA-90*
R 1/4 m	29	15	11	10.5	9.4	6	35	ESDM 14 NA-90*
R 3/8 m	30	17	12	10.5	9.4	6	35	ESDM 38 NA-90*
M 8x0.75 m	27	15	9	10.5	9.4	4.5	38	ESDM 875 NA-90
M 10x1 m	27	15	9	10.5	9.4	6	38	ESDM 101 NA-90
M 14x1.5 m	29	15	11	10.5	9.4	6	40	ESDM 1415 NA-90



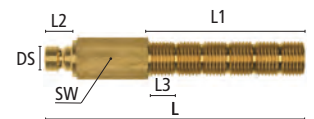
Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	25.5	14	11	10.5	9.4	6	14	ESDM 14 NAAB*
R 1/4 m	28.5	14	14	10.5	9.4	6	18	ESDM 14 NARAB*
G 3/8 m	26.5	17	11	10.5	9.4	6	22	ESDM 38 NAAB*
M 14x1.5 m	25.5	15	11	10.5	9.4	6	15	ESDM 1415 NAAB



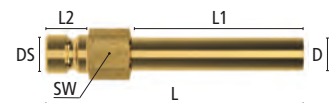
Plugs with straight male long thread without valve (for length cutting as needed)

Thread connection	L	SW	L1	L2	L3	DS	Passage	Weight	Type No.
G 1/8 a	100	11	60	10.5	10	9.4	6	36	ESDM 18-60 NA
G 1/4 a	100	14	60	10.5	10	9.4	6	58	ESDM 14-60 NA
G 3/8 a	100	17	60	10.5	10	9.4	6	90	ESDM 38-60 NA
M 10x1 a	100	11	60	10.5	10	9.4	6	36	ESDM 101-60 NA
M 14x1.5 a	100	14	60	10.5	10	9.4	6	61	ESDM 1415-60 NA



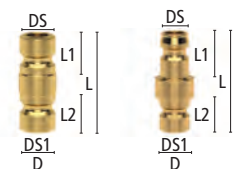
Plug Tubes for countersunk mould threads

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
8	63	11	42	10.5	9.4	6	14	ESDM 68 R
8	100	11	79	10.5	9.4	6	20	ESDM 100 R
10	63	11	42	10.5	9.4	6	20	ESDM 63 R10
10	100	11	79	10.5	9.4	6	38	ESDM 100 R10
10	120	11	102	10.5	9.4	6	49	ESDM 120 R



Plug System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 6 – DN 6	27	10	10.5	10.5	9.4	9.4	6	14	ESDM-ESDM
DN 9 – DN 6	31	14	15.5	10.5	9.4	13.5	6	18	ESD-ESDM
DN 6 – DN 6	31	12	10.5	14	9	9.4	6	14	ESDM-ESHM
DN 6 – DN 9	31	14	10.5	14	13	9.4	6	18	ESDM-ESH
Protection cap (plastic) for plug profile ESDM							100		ESDM-K



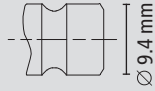
*Plugs with inch thread nickel-plated for simple distinction

NEW!

Temperature Regulation Quick Connect Couplings

Series ESDMT plug size 9.4 mm – High Resistant Special Brass
with Automatic Locking Mechanism

DN6



Plug Profile (original size)

- Forced guidance design with visual colour coding at the locking sleeve
- Combined pressure-torsion spring and very robust locking sleeve made of high resistant special brass
- **For Temperature Regulation applications with hot or cold water as well as tempered oil**
- Optionally available with straight-through, single or double shut-off
- Versions with additional O-ring sealing at connection port to prevent leakage in high temperature applications

Materials

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: High resistant special brass plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- O-Rings: Special-Hitec-FKM-O-ring
- Balls: Stainless steel 1.4034



International Plug Profile

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	6	ISO 228/ DIN 13	One-hand	single/double/straight-thr.	Tempered media	5

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	60	18	22.5	9.4	6	55	ESDMT 9 TL	ESDMT 9 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	51	18	22.5	9.4	6	78	ESDMT 9 TL45	ESDMT 9 TL45AB

Coupling with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	55	18	22.5	9.4	6	87	ESDMT 9 TL90	ESDMT 9 TL90AB

Coupling with male thread

Coupling with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	55.5	17	18	11	9.4	6	69	ESDMT14AL	ESDMT14ALAB
M 14x1.5 m	55.5	17	18	11	9.4	6	70	ESDMT1415AL	ESDMT1415ALAB

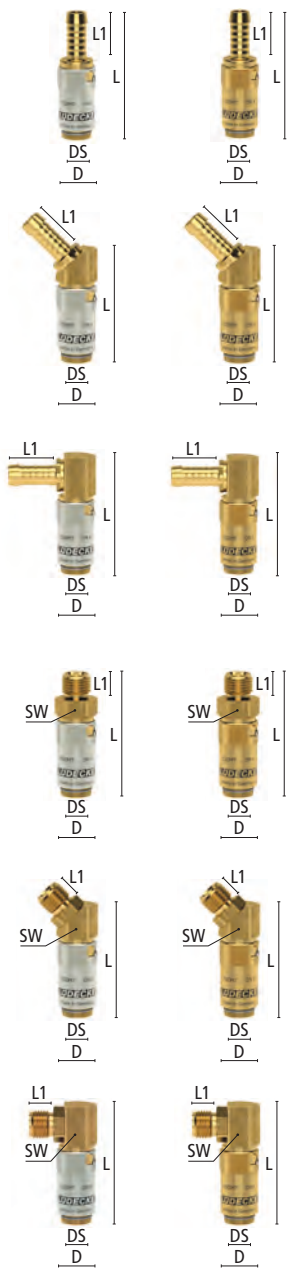
Coupling with 45° male thread without with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	51	17	18	11	9.4	6	81	ESDMT14AL45	ESDMT14AL45AB
M 14x1.5 m	51	17	18	11	9.4	6	82	ESDMT1415AL45	ESDMT1415AL45AB

Coupling with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	55	17	18	11	9.4	6	90	ESDMT14AL90	ESDMT14AL90AB
M 14x1.5 m	55	17	18	11	9.4	6	91	ESDMT1415AL90	ESDMT1415AL90AB

other sizes on request



Temperature Regulation Quick Connect Couplings

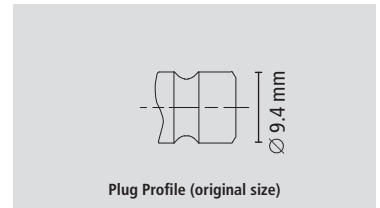
plug size 9.4 mm **Series ESDMF**

DN6

- Couplings flat-sealing with two-hand operation
- For temperature regulation applications with hot or cold water as well as tempered oil
- Optional with straight-through, single or double shut-off
- Hose couplings available with standard stem profile for standard hoses (quick-fit profile for quick-fit hoses on request)

Materials

- Body, valve body, valve, plug: MS 58 brass plain
- Sleeve: Brass MS 58 plain/ nickel-plated
- Springs, retaining rings: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: FKM (PTFE-coated)



Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	6	ISO 228 / DIN 13	Two-hands	single/double/straight-thr.	Tempered media	Coupl. 5 / Plug 10

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	51	17	22.5	9.4	5	40	ESDMF 6 TL	ESDMF 6 TLAB
Hose i.D. 9	51	17	22.5	9.4	6	45	ESDMF 9 TL	ESDMF 9 TLAB
Hose i.D. 13	53	17	25	9.4	6	54	ESDMF 13 TL	ESDMF 13 TLAB

Couplings with 45° standard hose stem without/with valve

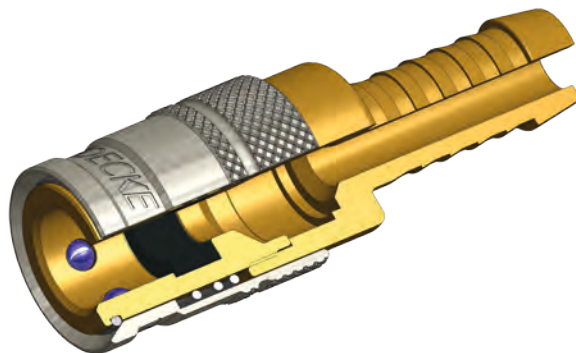
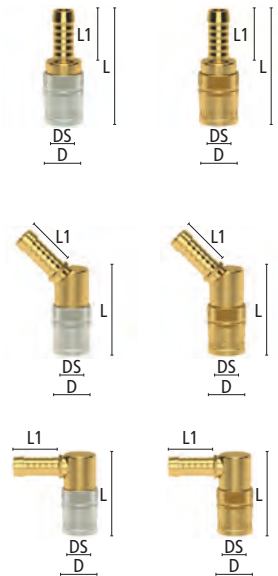
Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	40.5	17	25.5	9.4	5	58	ESDMF 6 TL-45	ESDMF 6 TL-45AB
Hose i.D. 9	40.5	17	25.5	9.4	6	62	ESDMF 9 TL-45	ESDMF 9 TL-45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	40.5	17	25.5	9.4	5	58	ESDMF 6 TL-90	ESDMF 6 TL-90AB
Hose i.D. 9	40.5	17	25.5	9.4	6	62	ESDMF 9 TL-90	ESDMF 9 TL-90AB

Suitable hose clips, double-ear clips or crimping ferrules for standard hoses (©page 414 - 417)

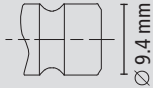
International Plug Profile



Temperature Regulation Quick Connect Couplings

Series ESDMF plug size 9.4 mm

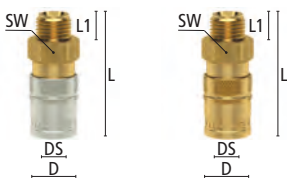
DN 6



Plug Profile (original size)

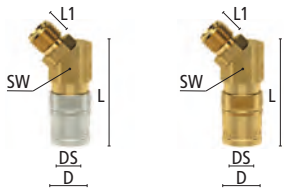
Couplings with thread connection

Couplings with straight male thread without/with valve (inner cone DIN 3863)



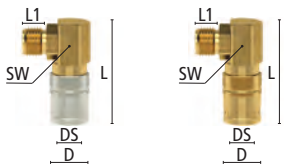
Thread Connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	46	17	17	13	9.4	6	60	ESDMF 14 A	ESDMF 14 AAB
G 3/8 m	46	19	17	13	9.4	6	70	ESDMF 38 A	ESDMF 38 AAB
M 10x1 m	44	17	17	7	9.4	6	60	ESDMF 101 A	ESDMF 101 AAB
M 14x1.5 m	46	17	17	13	9.4	6	60	ESDMF 1415 A	ESDMF 1415 AAB
M 16x1.5 m	46	19	17	13	9.4	6	70	ESDMF 1615 A	ESDMF 1615 AAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)



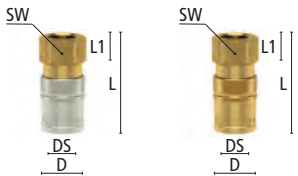
Thread Connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	45	17	17	9	9.4	6	65	ESDMF 14 A-45	ESDMF 14 A-45AB
G 3/8 m	45	19	17	9	9.4	6	75	ESDMF 38 A-45	ESDMF 38 A-45AB
M 10x1 m	45	17	17	7	9.4	6	65	ESDMF 101 A-45	ESDMF 101 A-45AB
M 14x1.5 m	45	17	17	9	9.4	6	65	ESDMF 1415 A-45	ESDMF 1415 A-45AB
M 16x1.5 m	45	19	17	9	9.4	6	75	ESDMF 1615 A-45	ESDMF 1615 A-45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)



Thread Connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	45	17	17	9	9.4	6	75	ESDMF 14 A-90	ESDMF 14 A-90AB
G 3/8 m	45	19	17	9	9.4	6	85	ESDMF 38 A-90	ESDMF 38 A-90AB
M 10x1 m	45	17	17	7	9.4	6	75	ESDMF 101 A-90	ESDMF 101 A-90AB
M 14x1.5 m	45	17	17	9	9.4	6	75	ESDMF 1415 A-90	ESDMF 1415 A-90AB
M 16x1.5 m	45	19	17	9	9.4	6	85	ESDMF 1615 A-90	ESDMF 1615 A-90AB

Couplings with straight female thread without/with valve



Thread Connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	40	17	17	9	9.4	6	50	ESDMF 14 I	ESDMF 14 IAB
G 3/8 f	40	21	17	9	9.4	6	54	ESDMF 38 I	ESDMF 38 IAB
M 10x1 f	40	17	17	9	9.4	6	50	ESDMF 101 I	ESDMF 101 IAB
M 14x1.5 f	40	17	17	9	9.4	6	50	ESDMF 1415 I	ESDMF 1415 IAB

Couplings with plug nipple DN 6 - ESDMF and ESDMF-ESHM-System Adapters

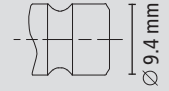


Connection	L	D	L1	DS	Passage	Ausf.	Weight	Type No. w/o valve	Type No. w valve
DN 6 - DN 9	50.5	17	15.5	9.4	6	straight	75	ESDMFK-ESDS	ESDMFK-ESDS-AB
DN 6 - DN 9	45	17	15.5	9.4	6	45°	80	ESDMFK-ESDS-45	ESDMFK-ESDS-45AB
DN 6 - DN 9	45	17	15.5	9.4	6	90°	80	ESDMFK-ESDS-90	ESDMFK-ESDS-90AB
DN 6 - DN 6	50	17	14	9.4	6	straight	70	ESDMFK-ESHMS	ESDMFK-ESHMS-AB
DN 6 - DN 9	50	17	14	9.4	6	straight	75	ESDMFK-ESHs	ESDMFK-ESHs-AB

Temperature Regulation Quick Connect Couplings

plug size 9.4 mm **Serie ESDMF**

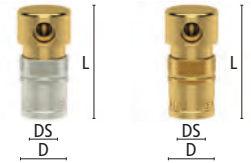
DN6



Plug Profile (original size)

Diversion coupling for temperature regulation bridges for tube connection 90° with/without valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 6/8	42	17	9.4	6	63	ESDMF 8-U	ESDMF 8-UAB



Tube (chamfered) for diversion couplings (temperature regulation tube), hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 8/6	250	8	6	45	TR 250-8
Tube 8/6	500	8	6	93	TR 500-8



Plain End Coupling

Connection	L	D	DS	Weight	Type No.
closed	30	17	9.4	37	ESDMF-B



Plugs

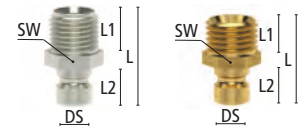
Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 6	39.5	12	22.5	10.5	9.4	5	9	ESDM 6 SL
Hose i.D. 9	39.5	12	22.5	10.5	9.4	6	13	ESDM 9 SL
Hose i.D. 13	39.5	15	22.5	10.5	9.4	6	17	ESDM 13 SL



Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	22	11	8	10.5	9.4	6	10	ESDM 18 NA*
R 1/8 m	25	11	11	10.5	9.4	6	12	ESDM 18 NAR*
G 1/4 m	23	14	9	10.5	9.4	6	14	ESDM 14 NA*
R 1/4 m	26	14	12	10.5	9.4	6	16	ESDM 14 NAR*
G 3/8 m	23.5	17	9	10.5	9.4	6	18	ESDM 38 NA*
M 8x0.75 m	20.5	11	7	10.5	9.4	4.5	9	ESDM 875 NA
M 10x1 m	22	11	7	10.5	9.4	6	8	ESDM 101 NA
M 14x1.5 m	23	14	9	10.5	9.4	6	10	ESDM 1415 NA
M 16x1.5 m	23	17	9	10.5	9.4	6	18	ESDM 1615 NA



Plugs with straight female thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 f	22	14	9	10.5	9.4	6	15	ESDM 18 NI*
G 1/4 f	23	17	9	10.5	9.4	6	19	ESDM 14 NI*
G 3/8 f	23	19	10	10.5	9.4	6	25	ESDM 38 NI*

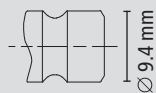


*Plugs with inch thread nickel-plated for simple distinction

Temperature Regulation Quick Connect Couplings

Serie ESDMF plug size 9.4 mm

DN6



Plug Profile (original size)



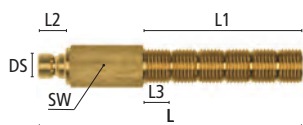
Plugs with 90° male thread without valve (metrical thread DIN 158/conical thread DIN 2999)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/8 m	27	15	9	10.5	9.4	6	35	ESDM 18 NA-90*
R 1/4 m	29	15	11	10.5	9.4	6	35	ESDM 14 NA-90*
R 3/8 m	30	17	12	10.5	9.4	6	35	ESDM 38 NA-90*
M 8x0.75 m	27	15	9	10.5	9.4	4.5	38	ESDM 875 NA-90
M 10x1 m	27	15	9	10.5	9.4	6	38	ESDM 101 NA-90
M 14x1.5 m	29	15	11	10.5	9.4	6	40	ESDM 1415 NA-90



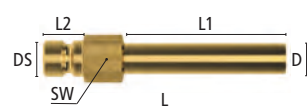
Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	25.5	14	11	10.5	9.4	6	14	ESDM 14 NAAB*
R 1/4 m	28.5	14	14	10.5	9.4	6	18	ESDM 14 NARAB*
G 3/8 m	26.5	17	11	10.5	9.4	6	22	ESDM 38 NAAB*
M 14x1.5 m	25.5	15	11	10.5	9.4	6	15	ESDM 1415 NAAB



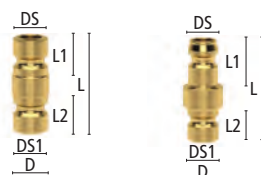
Plugs with straight male long thread without valve (for length cutting as needed)

Thread connection	L	SW	L1	L2	L3	DS	Passage	Weight	Type No.
G 1/8 m	100	11	60	10.5	9	9.4	6	36	ESDM 18-60 NA
G 1/4 m	100	14	60	10.5	9	9.4	6	58	ESDM 14-60 NA
G 3/8 m	100	17	60	10.5	9	9.4	6	90	ESDM 38-60 NA
M 10x1 m	100	11	60	10.5	9	9.4	6	36	ESDM 101-60 NA
M 14x1.5 m	100	14	60	10.5	9	9.4	6	61	ESDM 1415-60 NA



Plug Tubes for countersunk mould threads

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
8	63	11	42	10.5	9.4	6	14	ESDM 68 R
8	100	11	79	10.5	9.4	6	20	ESDM 100 R
10	63	11	42	10.5	9.4	6	20	ESDM 63 R10
10	100	11	79	10.5	9.4	6	38	ESDM 100 R10
10	120	11	102	10.5	9.4	6	49	ESDM 120 R



Plug System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 6 – DN 6	27	10	10.5	10.5	9.4	9.4	6	14	ESDM-ESDM
DN 9 – DN 6	31	14	15.5	10.5	9.4	13.5	6	18	ESD-ESDM
DN 6 – DN 6	31	12	10.5	14	9	9.4	6	14	ESDM-ESHM
DN 6 – DN 9	31	14	10.5	14	13	9.4	6	18	ESDM-ESH
Protection cap (plastic) for plug profile ESDM								100	ESDM-K

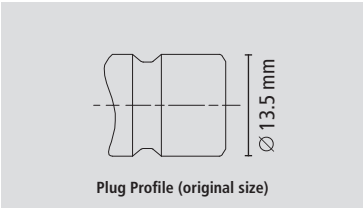
*Plugs with inch thread nickel-plated for simple distinction

Temperature Regulation Quick Connect Couplings

plug size 13.5 mm **Serie ESD**

- Couplings with O-ring-sealing and one-hand operation
- For temperature regulation applications with hot or cold water as well as tempered oil
- Optional with straight-through, single or double shut-off
- Hose couplings available with standard stem profile for standard hoses (quick-fit profile for quick-fit hoses on request)
- All couplings available with disconnect-protection with a surcharge. Just add "S" on Type No.

DN 9



International Plug Profile

Materials

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: Brass MS 58 plain/ nickel-pl.
- Spring, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: FKM (PTFE-coated)

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	9	ISO 228 / DIN 13	One-hand	single/double/straight-thr.	Tempered media	Coupl. 5 / Plug 10

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	61.5	22	25	13.5	7	72	ESD 9 TL	ESD 9 TLAB
Hose i.D. 13	61.5	22	25	13.5	9	81	ESD 13 TL	
Hose i.D. 13	61.5	22	25	13.5	9	81		ESD 13 TLAB

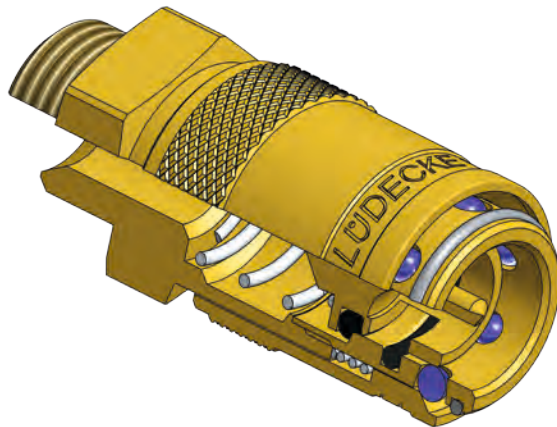
Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	51	22	30	13.5	7	103	ESD 9 TL-45	ESD 9 TL-45AB
Hose i.D. 13	51	22	30	13.5	9	109	ESD 13 TL-45	ESD 13 TL-45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	51	22	30	13.5	7	105	ESD 9 TL-90	ESD 9 TL-90AB
Hose i.D. 13	51	22	30	13.5	9	111	ESD 13 TL-90	ESD 13 TL-90AB

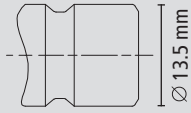
Suitable hose clips, double-ear clips or crimping ferrules for standard hoses (©page 414 - 417)



Temperature Regulation Quick Connect Couplings

Series ESD plug size 13.5 mm

DN 9



Plug Profile (original size)

Couplings with thread connection

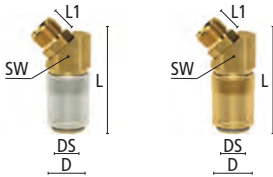
Couplings with straight male thread without/with valve (inner cone DIN 3863)



Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	52	22	22	9	13.5	9	90	ESD 14 A	ESD 14 AAB
G 3/8 m	52	22	22	9	13.5	9	94	ESD 38 A	ESD 38 AAB
M 16x1.5 m	52	22	22	9	13.5	9	93	ESD 1615 A	ESD 1615 AAB
G 1/2 m	53	24	22	10	13.5	9	95	ESD 12 A	ESD 12 AAB
G 3/8 m	52	22	22	11	13.5	9	94	ESD 38 AL	ESD 38 ALAB
M 16x1.5 m	52	22	22	11	13.5	9	105	ESD 1615 AL	ESD 1615 ALAB
G 1/2 m	54.5	24	22	12	13.5	9	110	ESD 12 AL	ESD 12 ALAB

Version AL with longer male thread mainly used for assembly with Ermeto-screwings.

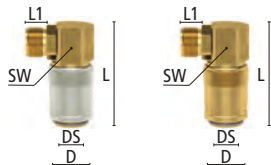
Couplings with 45° male thread without/with valve (inner cone DIN 3863)



Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	54	22	22	9	13.5	9	114	ESD 38 A-45	ESD 38 A-45AB
M 16x1.5 m	54	22	22	9	13.5	9	114	ESD 1615 A-45	ESD 1615 A-45AB
G 3/8 m	54	22	22	11	13.5	9	125	ESD 38 AL-45	ESD 38 AL-45AB

Version AL with longer male thread mainly used for assembly with Ermeto-screwings.

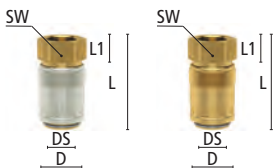
Couplings with 90° male thread without/with valve (inner cone DIN 3863)



Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	54	22	22	9	13.5	9	126	ESD 38 A-90	ESD 38 A-90AB
M 16x1.5 m	54	22	22	9	13.5	9	126	ESD 1615 A-90	ESD 1615 A-90AB
G 3/8 m	54	22	22	11	13.5	9	125	ESD 38 AL-90	ESD 38 AL-90AB

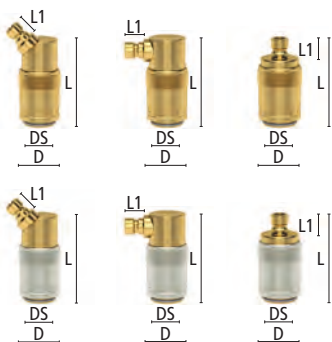
Version AL with longer male thread mainly used for assembly with Ermeto-screwings.

Couplings with straight female thread without/with valve



Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	44.5	17	22	9	13.5	9	75	ESD 14 I	ESD 14 IAB
G 3/8 f	46	22	22	9	13.5	9	84	ESD 38 I	ESD 38 IAB
G 1/2 f	49	24	22	12	13.5	9	110	ESD 12 I	ESD 12 IAB

Couplings with plug DN 6 - ESHM - Sytem Adaptor and ESH-ESD System Adaptor

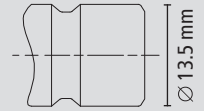


Connection	L	D	L1	DS	Passage	Version	Weight	Type No. w/o valve	Type No. w valve
DN 9 - DN 6	48	22	10.5	13.5	6	straight	85	ESDK-ESDMS	ESDK-ESDMS-AB
DN 9 - DN 6	54	22	10.5	13.5	6	45°	100	ESDK-ESDMS-45	ESDK-ESDMS-45AB
DN 9 - DN 6	54	22	10.5	13.5	6	90°	100	ESDK-ESDMS-90	ESDK-ESDMS-90AB
DN 9 - DN 6	51	22	14	13.5	6	straight	85	ESDK-ESHMS	ESDK-ESHMS-AB
DN 9 - DN 9	51	22	14	13.5	9	straight	100	ESDK-ESHS	ESDK-ESHS-AB

Temperature Regulation Quick Connect Couplings

plug size 13.5 mm **Series ESD**

DN9



Plug Profile (original size)

Diversion coupling for temperature regulation bridges for tube connection 90° with/without valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 10/8	53	17	13.4	8	118	ESD 10-U	ESD 10-UAB

Tube (chamfered) for diversion couplings (temperature regulation tube), hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 10/8	250	10	8	60	TR 250-10
Tube 10/8	500	10	8	120	TR 500-10

Plain End Coupling

Connection	L	D	DS	Weight	Type No.
closed	37	22	13.5	67	ESD-B

Plugs

Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 6	41	14.5	22.5	15.5	13.5	5	20	ESD 6 SL
Hose i.D. 9	41	14.5	22.5	15.5	13.5	7	23	ESD 9 SL
Hose i.D. 13	43.5	16	25	15.5	13.5	9	25	ESD 13 SL

Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	27	15	7	15.5	13.5	6	16	ESD 18 NA*
G 1/4 m	29	15	9	15.5	13.5	9	17	ESD 14 NA*
R 1/4 m	32	15	12	15.5	13.5	9	21	ESD 14 NAR*
G 3/8 m	29	17	9	15.5	13.5	9	22	ESD 38 NA*
R 3/8 m	32	17	12	15.5	13.5	9	26	ESD 38 NAR*
G 1/2 m	32	22	12	15.5	13.5	9	42	ESD 12 NA*
G 3/4 m	36.5	27	16	15.5	13.5	9	77	ESD 34 NA*
M 10x1 m	27	15	7	15.5	13.5	6.5	14	ESD 101 NA
M 14x1.5 m	29	15	9	15.5	13.5	9	16	ESD 1415 NA
M 16x1.5 m	29	17	9	15.5	13.5	9	20	ESD 1615 NA

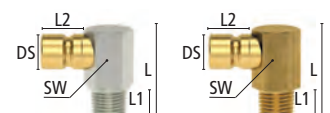
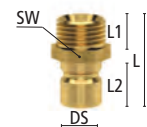
Plugs with straight female thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 f	27	17	9	15.5	13.5	9	21	ESD 14 NI*
G 3/8 f	27.5	22	10	15.5	13.5	9	32	ESD 38 NI*
G 1/2 f	29.5	24	12	15.5	13.5	9	55	ESD 12 NI*

Plugs with 90° male thread without valve (metrical thread DIN 158 / conical thread DIN 2999)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/4 m	35.5	17	11	15.5	13.5	9	45	ESD 14 NA-90*
M 14x1.5 m	35.5	17	11	15.5	13.5	9	47	ESD 1415 NA-90
R 3/8 m	35.5	17	12	15.5	13.5	9	45	ESD 38 NA-90*

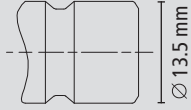
*Plugs with inch thread nickel-plated for simple distinctions



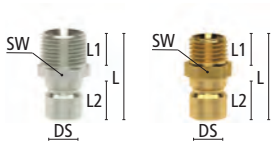
Temperature Regulation Quick Connect Couplings

Series ESD plug size 13.5 mm

DN9

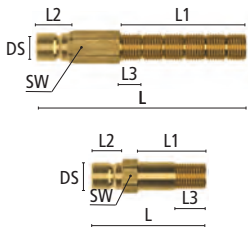


Plug Profile (original size)



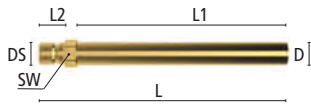
Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	30	15	9.5	15.5	13.5	6	24	ESD 14 NAAB*
G 3/8 m	31	17	10.5	15.5	13.5	9	28	ESD 38 NAAB*
R 3/8 m	34	17	13.5	15.5	13.5	9	32	ESD 38 NARAB*
M 14x1.5 m	30	15	9.5	15.5	13.5	6	26	ESD 1415 NAAB
M 16x1.5 m	31	17	10.5	15.5	13.5	9	28	ESD 1615 NAAB



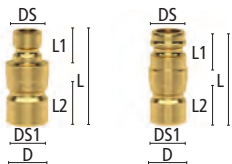
Plugs with straight male long thread without valve (for length cutting as needed)

Thread connection	L	SW	L1	L2	L3	DS	Passage	Weight	Type No.
G 1/4 m	100	14	60	15.5	10	13.5	9	60	ESD 14-60 NA
G 1/4 m	57	15	34	15.5	16	13.5	9	38	ESD 14 NAL18
G 1/4 m	110	15	87	15.5	16	13.5	9	75	ESD 14 NAL71
G 3/8 m	100	17	60	15.5	10	13.5	9	91	ESD 38-60 NA
M 14x1.5 m	100	14	60	15.5	10	13.5	9	55	ESD 1415-60 NA
M 16x1.5 m	100	17	60	15.5	10	13.5	9	93	ESD 1615-60 NA



Plug Tubes for countersunk mould threads

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
14	150	15	127	15.5	13.5	9	114	ESD 150 R



Plug System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 9 - DN 6	31	14	15.5	10.5	13.5	9.4	6	18	ESD-ESDM
DN 9 - DN 9	34	14	15.5	15.5	13.5	13.5	9	24	ESD-ESD
DN 9 - DN 9	34	14	15.5	14	13.5	13	9	24	ESD-ESH

Protection cap (plastic) for plug profile ESD

100 ESD-K

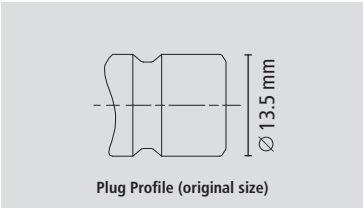
*Plugs with inch thread nickel-plated for simple distinction

Temperature Regulation Quick Connect Couplings

plug size 13.5 mm – High Resistant Special Brass **Series ESDT**
with Automatic Locking Mechanism

- Forced guidance design with visual colour coding at the locking sleeve
- Combined pressure-torsion spring and very robust locking sleeve made of high resistance special brass
- **For temperature regulation applications with hot or cold water as well as tempered oil**
- Optionally available with straight-through, single or double shut-off
- Versions with additional O-ring sealing at connection port to prevent leakage in high temperature applications

DN 9



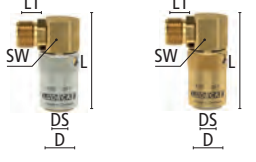
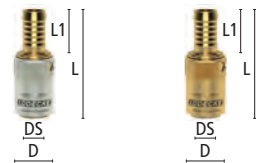
Materials

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: High resistant special brass plain/ nickel-plated
- Spring, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-Rings: Special-Hitec-FKM-O-ring

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C*	9	ISO 288/ DIN 13	One-hand	single/double/straight-thr.	Tempered media	5



International Plug Profile



Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	64.5	24	25	13.5	9	94	ESDT 13 TL	ESDT 13 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	57	24	25	13.5	9	147	ESDT 13 TL45	ESDT 13 TL45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	57	24	25	13.5	9	149	ESDT 13 TL90	ESDT 13 TL90AB

Couplings with male threads

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	57.5	22	24	12.5	13.5	9	108	ESDT38AL	ESDT38ALAB
M 16x1.5 m	57.5	22	24	12.5	13.5	9	107	ESDT1615AL	ESDT1615ALAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	57	22	24	12.5	13.5	9	144	ESDT38AL45	ESDT38AL45AB
M 16x1.5 m	57	22	24	12.5	13.5	9	140	ESDT1615AL45	ESDT1615AL45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

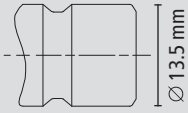
Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	57	22	24	12.5	13.5	9	146	ESDT38AL90	ESDT38AL90AB
M 16x1.5 m	57	22	24	12.5	13.5	9	143	ESDT1615AL90	ESDT1615AL90AB

Other types / sizes on request!

Temperature Regulation Quick Connect Couplings

Series ESDF plug size 13.5 mm

DN9



Plug Profile (original size)

- Couplings with flat-sealing with two-hand operation
- For temperature regulation applications with hot or cold water as well as tempered oil
- Optional with straight-through, single or double shut-off
- Hose couplings available with standard stem profile for standard hoses (quick-fit profile for quick-fit hoses on request).

Materials

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: Brass MS 58 plain/ nickel-pl.
- Spring, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: FKM (PTFE-coated)

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	9	ISO 228 / DIN 13	Two-hands	single/double/straight-thr.	Tempered media	Coupl. 5 / Plug 10

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	61.5	22	25	13.5	7	72	ESDF 9 TL	ESDF 9 TLAB
Hose i.D. 13	61.5	22	25	13.5	9	81	ESDF 13 TL	ESDF 13 TLAB

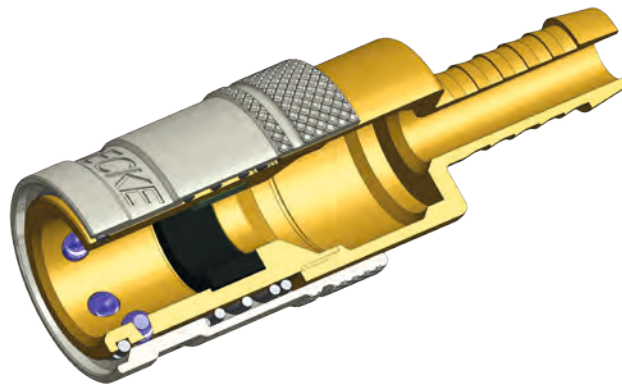
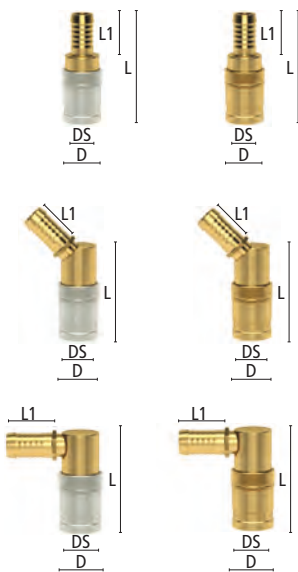
Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	51	22	30	13.5	7	103	ESDF 9 TL-45	ESDF 9 TL-45AB
Hose i.D. 13	51	22	30	13.5	9	109	ESDF 13 TL-45	ESDF 13 TL-45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	51	22	30	13.5	7	105	ESDF 9 TL-90	ESDF 9 TL-90AB
Hose i.D. 13	51	22	30	13.5	9	111	ESDF 13 TL-90	ESDF 13 TL-90AB

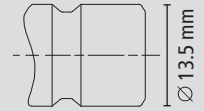
Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses (© page 414 - 417)



Temperature Regulation Quick Connect Couplings

plug size 13.5 mm **Series ESDF**

DN9



Plug Profile (original size)

Couplings with thread connection

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	52	22	22	9	13.5	9	90	ESDF 14 A	ESDF 14 AAB
G 3/8 m	52	22	22	11	13.5	9	94	ESDF 38 A	ESDF 38 AAB
G 1/2 m	53	24	22	12	13.5	9	95	ESDF 12 A	ESDF 12 AAB
M 16x1.5 m	52	22	22	11	13.5	9	93	ESDF 1615 A	ESDF 1615 AAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	54	22	22	11	13.5	9	114	ESDF 38 A-45	ESDF 38 A-45AB
M 16x1.5 m	54	22	22	11	13.5	9	114	ESDF 1615 A-45	ESDF 1615 A-45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

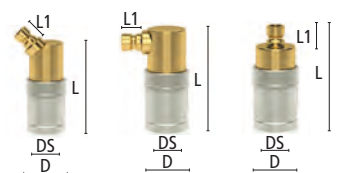
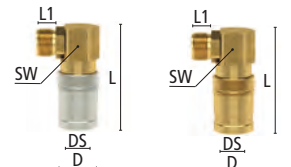
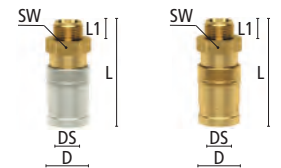
Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	54	22	22	11	13.5	9	126	ESDF 38 A-90	ESDF 38 A-90AB
M 16x1.5 m	54	22	22	11	13.5	9	126	ESDF 1615 A-90	ESDF 1615 A-90AB

Couplings with straight female thread without/with valve

Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	44.5	17	22	9	13.5	9	75	ESDF 14 I	ESDF 14 IAB
G 3/8 f	46	22	22	9	13.5	9	84	ESDF 38 I	ESDF 38 IAB
G 1/2 f	49	24	22	12	13.5	9	110	ESDF 12 I	ESDF 12 IAB

Couplings with plug DN 6 - ESHM - Sytem Adaptor and ESH-ESDF System Adaptor

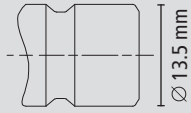
Connection	L	D	L1	DS	Passage	Version	Weight	Type No. w/o valve	Type No. w valve
DN 9 - DN 6	48	22	10.5	13.5	6	straight	85	ESDFK-ESDMS	ESDFK-ESDMS-AB
DN 9 - DN 6	54	22	10.5	13.5	6	45°	100	ESDFK-ESDMS-45	ESDFK-ESDMS-45AB
DN 9 - DN 6	54	22	10.5	13.5	6	90°	100	ESDFK-ESDMS-90	ESDFK-ESDMS-90AB
DN 9 - DN 6	51	22	14	13.5	6	straight	85	ESDFK-ESHMS	ESDFK-ESHMS-AB
DN 9 - DN 9	51	22	14	13.5	9	straight	100	ESDFK-ESHS	ESDFK-ESHS-AB



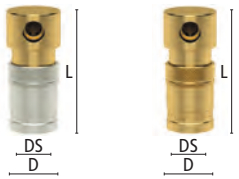
Temperature Regulation Quick Connect Couplings

Series ESDF plug size 13.5 mm

DN9



Plug Profile (original size)



Diversion coupling for temperature regulation bridges for tube connection 90° with/without valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 10/8	58	22	13.5	8	118	ESDF 10-U	ESDF 10-UAB

Tube (chamfered) for diversion couplings (temperature regulation tube), hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 10/8	250	10	8	60	TR 250-10
Tube 10/8	500	10	8	120	TR 500-10

Plain End Coupling

Connection	L	D	DS	Weight	Type No.
closed	37	22	13.5	67	ESDF-B

Plugs

Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 6	41	14.5	22.5	15.5	13.5	5	20	ESD 6 SL
Hose i.D. 9	41	14.5	22.5	15.5	13.5	7	23	ESD 9 SL
Hose i.D. 13	43.5	16	25	15.5	13.5	9	25	ESD 13 SL

Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	27	15	7	15.5	13.5	6	16	ESD 18 NA*
G 1/4 m	29	15	9	15.5	13.5	9	17	ESD 14 NA*
R 1/4 m	32	15	12	15.5	13.5	9	21	ESD 14 NAR*
G 3/8 m	29	17	9	15.5	13.5	9	22	ESD 38 NA*
R 3/8 m	32	17	12	15.5	13.5	9	26	ESD 38 NAR*
G 1/2 m	32	22	12	15.5	13.5	9	42	ESD 12 NA*
G 3/4 m	36.5	27	16	15.5	13.5	9	77	ESD 34 NA*
M 10x1 m	27	15	7	15.5	13.5	6.5	14	ESD 101 NA
M 14x1.5 m	29	15	9	15.5	13.5	9	16	ESD 1415 NA
M 16x1.5 m	29	17	9	15.5	13.5	9	20	ESD 1615 NA

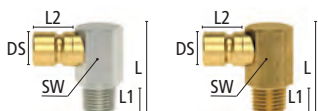
Plugs with straight female thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 f	27	17	9	15.5	13.5	9	21	ESD 14 NI*
G 3/8 f	27.5	22	10	15.5	13.5	9	32	ESD 38 NI*
G 1/2 f	29.5	24	12	15.5	13.5	9	55	ESD 12 NI*

Plugs with 90° male thread without valve (metrical thread DIN 158 / conical thread DIN 2999)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/4 m	35.5	17	11	15.5	13.5	9	45	ESD 14 NA-90*
M 14x1.5 m	35.5	17	11	15.5	13.5	9	47	ESD 1415 NA-90
R 3/8 m	35.5	17	12	15.5	13.5	9	45	ESD 38 NA-90*

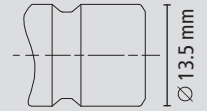
*Plugs with inch thread nickel-plated for simple distinction



Temperature Regulation Quick Connect Couplings

plug size 13.5 mm **Series ESDF**

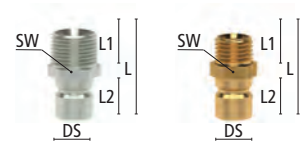
DN 9



Plug Profile (original size)

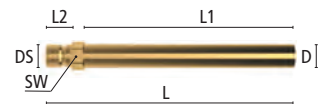
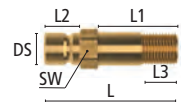
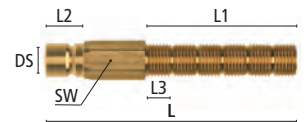
Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	30	15	9.5	15.5	13.5	6	24	ESD 14 NAAB*
G 3/8 m	31	17	10.5	15.5	13.5	9	28	ESD 38 NAAB*
R 3/8 m	34	17	13.5	15.5	13.5	9	32	ESD 38 NARAB*
M 14x1.5 m	30	15	9.5	15.5	13.5	6	26	ESD 1415 NAAB
M 16x1.5 m	31	17	10.5	15.5	13.5	9	28	ESD 1615 NAAB



Plugs with straight male long thread without valve (for length cutting as needed)

Thread connection	L	SW	L1	L2	L3	DS	Passage	Weight	Type No.
G 1/4 m	100	14	60	15.5	10	13.5	9	60	ESD 14-60 NA
G 1/4 m	57	15	34	15.5	16	13.5	9	38	ESD 14 NAL18
G 1/4 m	110	15	87	15.5	16	13.5	9	75	ESD 14 NAL71
G 3/8 m	100	17	60	15.5	10	13.5	9	91	ESD 38-60 NA
M 14x1.5 m	100	14	60	15.5	10	13.5	9	55	ESD 1415-60 NA
M 16x1.5 m	100	17	60	15.5	10	13.5	9	93	ESD 1615-60 NA

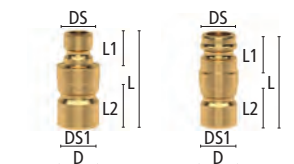


Plug Tubes for countersunk mould threads

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
14	150	15	127	15.5	13.5	9	114	ESD 150 R

System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 9 - DN 6	31	14	15.5	10.5	13.5	9.4	6	18	ESD-ESDM
DN 9 - DN 9	34	14	15.5	15.5	13.5	13.5	9	24	ESD-ESD
DN 9 - DN 9	34	14	15.5	14	13.5	13	9	24	ESD-ESH



Protection cap (plastic) for plug profile ESD	100	ESD-K
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*Plugs with inch thread nickel-plated for simple distinction



Original **STÄUBLI** RPL Series

For Hot or Cold Water Circuits for Temperature Regulation in Moulds on Injection Presses.

Safe locking, quickly checked

With a strengthened locking system the security of the circuits is made more reliable. The locked position is instantly visible by the coloured ring on the plug.



Colored ring hidden:
coupling not fully home!



Colored ring visible:
safety ensured

3 diameters to support your production

The RPL range with its clear passage combines excellent flow with a compact design. RPL connectors come in three sizes RPL 06, 08 and 12 and cover all the flow volumes required for mould temperature regulation.

Easy circuit identification

Thanks to the identification of sockets and plugs by coloured rings, circuit identification is quick and easy. The rings can also serve to number the circuits (on the socket side).



Socket side:
blue or red ring



Plug side:
blue or red ring

Free circulation of fluids

Thanks to the clear passage design, the risk of scale formation is eliminated and the circulation flow protected

Immediate connection

The design and built quality of the teflon-coated male threaded straight sockets guarantees effective and immediate connection.

Strong enough for any test!

Ease of Connection and Disconnection

Thanks to the knurled locking ring making it easier to grip the plug, connection and disconnection can be done with one hand, and in record time. In a compact RPL connection installation a shoulder (RPL 08 and RPL 12) or groove (RPL 06) on the locking ring enables a tool to be used in complete safety.



Possibility of using a tool – knurled locking ring



Simple and Efficient on all Areas with High Lifetime



Simplified maintenance because of sealing on the outside

Seal replacement is quick and easy. It is done in record time and has no effect on your productivity.

For new moulds: flush fitting



- Easy mould storage
- No risk of damage to the sockets

For existing moulds: slightly proud fitting



Sockets with enhancing extensions

Monobloc sturdy and rigid nickel-plated brass socket extensions fit easily onto the molds. They are available in various lengths to suit your installations, and can be adjusted to match any layout.

Threaded finish (RPL 08)

- 3 lengths available in G 1/8 m
- 4 lengths available in G 1/4 m

Smooth finish

- RPL 06: 1 length
- RPL 08: 4 lengths
- RPL 12: 3 lengths

Construction:

Thick wall monobloc construction for high strength and stiffness.

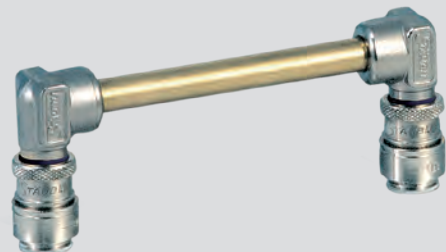


Bridge pieces to rationalize your assemblies

- Reduction in the number of flow meters
- Ease of maintenance
- Reduced size
- Flexible assembly
 - The RPL bridge permits high assembly tolerances
 - The functionality can enhance your performance
- Use with RPL 08 non threaded plug
- Tube supply length: 1 meter

Construction

- Calibrated work hardened brass tube



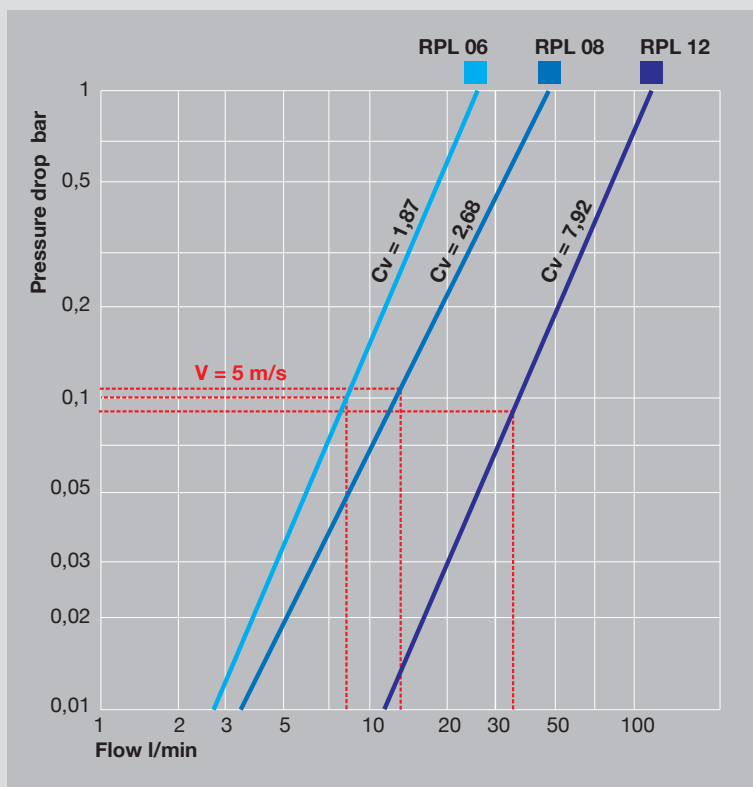


Construction/Materials

- Socket in nickel-plated brass, with PTFE pre-applied (straight male threaded sockets)
- Plug and extension in nickel-plated brass
- Seal in nitrile (NBR) and other seals on request
- Springs and balls in 18/8 stainless steel
- RPL 06: 6 balls
- RPL 08 and 12: 8 balls



Flow Diagramm





Overview Original *STÄUBLI* RPL Series

The Original STÄUBLI RPL Series is perfectly suitable for cold or hot water circuits for the temperature regulation in moulds on injection presses. They are offered in different sizes, connection types and with different coloured rings.

Series

RPL 06

RPL 08

RPL 12



Materials:

Body: Brass nickel-pl.
 Sleeve: Brass nickel-pl.
 Valve body: Brass nickel-pl.
 Springs, Retaining ring: Stainless steel 1.4310
 Balls: Stainless steel 1.4034
 Seals: Nitril (NBR)
 Socket: Brass nickel-pl.

Max. Working Pressure:

PN 10 bar

Temperature:

-15°C– +90°C

Thread Types:

ISO 2999, ISO 228, DIN 13

Connection:

straight

Type of Valve:

straight-through

Operation:

One-hand

Page:

192

Body: Brass nickel-pl.
 Sleeve: Brass nickel-pl.
 Valve body: Brass nickel-pl.

Stainless steel 1.4310
 Stainless steel 1.4034

Nitril (NBR)

Brass nickel-pl.

PN 10 bar

-15°C– +90°C

ISO 2999, ISO 228, DIN 13

straight/45°/90°

straight-through

One-hand

193

Body: Brass nickel-pl.
 Sleeve: Brass nickel-pl.
 Valve body: Brass nickel-pl.

Stainless steel 1.4310
 Stainless steel 1.4034

Nitril (NBR)

Brass nickel-pl.

PN 10 bar

-15°C– +90°C

ISO 2999, ISO 228, DIN 13

straight/45°/90°

straight-through

One-hand

197

Accessories for Original Stäubli Quick Connect Couplings:

- Replacement Nitril seals for plugs
- Colour identification collar for hose
- Protective dust cap for socket

Temperature Regulation Quick Connect Couplings

ORIGINAL STÄUBLI

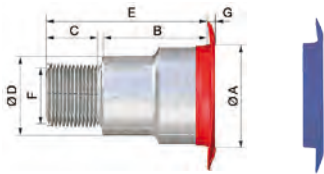
RPL 06

- Temperature regulation of mould tools for injection moulding
- For temperature regulation applications with hot or cold water
- Straight-through (free circulation guaranteed) with high flow rate and compact design
- Easy circuit identification
- Self-sealing and immediate effective sealing
- Safe and fast controlled connection through coloured rings

Materials

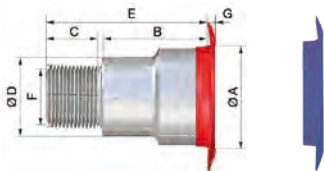
- Couplings, plugs: Brass nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: Nitril (NBR), FKM O-rings also available on request

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media
PN 10 bar	-15°C – +90° C	6	DIN 2999 / ISO 228 / DIN 13	One-hand	straight-through	Water



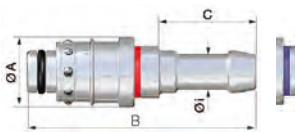
Straight socket with tapered male thread and self-sealing Teflon coating

F Thr. connect.	ØA	B	C	ØD	E	G	Inner-ØHex.	Weight	⊞	Type No. RED	Type No. BLUE
R 1/8 m	17	18.5	7.5	14	28.5	1.5	6	14.7	10	RPL 06.1150/KR	RPL 06.1150/KB
R 1/4 m	17	15.5	11	14	28.5	1.5	6	18.4	10	RPL 06.1151/KR	RPL 06.1151/KB



Straight socket with metric male thread

F Thr. connect.	ØA	B	C	ØD	E	G	Inner-ØHex.	Weight	⊞	Type No. RED	Type No. BLUE
M 10x1 m	17	18.5	8	14	28.5	1.5	6	15.4	10	RPL 06.1410/KR	RPL 06.1410/KB

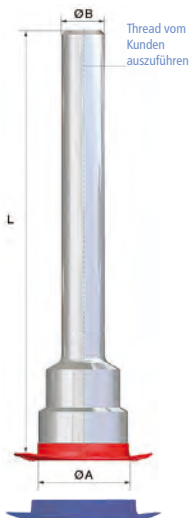


Plug with standard hose stem

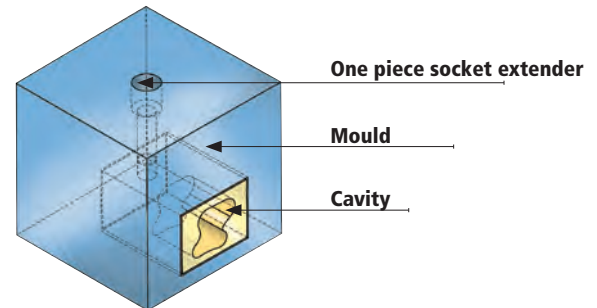
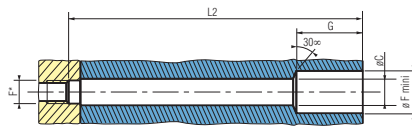
Hose connection	Øi	ØA	B	C	Weight	⊞	Type No. RED	Type No. BLUE
Hose i.D. 8	8	17	55	23	31.2	1	RPL 06.6808/KR	RPL 06.6808/KB

Extended socket: smooth version

Thr. connect.	L	ØA	ØB	L2	G	ØC	ØFmin	Innen-ØSW	Weight	⊞	Type No. RED	Type No. BLUE
R 1/8	33/100	17	10.2	L-5.5	20	11	18.5	6	48.9	10	RPL061010100KRR	RPL061010100KBR



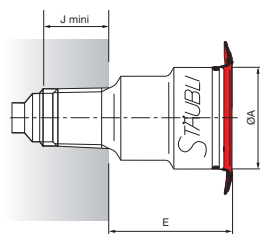
Installation of the sockets extenders



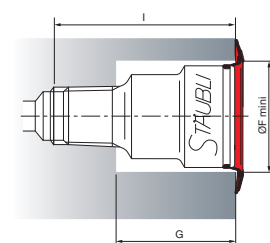
Installation dimensions for the socket

Thread connection	ØA	E	Jmin.	ØFmin.	G	I	Inner-ØHex.
G 1/8 f	17	20	10	18.5	20.5	29.5	6
G 1/4 f	17	18	13	18.5	18.5	30.5	6

Proud socket



Flush socket



Temperature Regulation Quick Connect Couplings

ORIGINAL STÄUBLI

RPL 08

- Temperature regulation of mould tools for injection moulding
- For temperature regulation applications with hot or cold water
- Straight-through (free circulation guaranteed) with high flow rate and compact design
- Easy circuit identification
- Self-sealing and immediate effective sealing
- Safe and fast controlled connection through coloured rings

Materials

- Couplings, plugs: Brass nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: Nitril (NBR), FKM O-rings also available on request

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media
PN 10 bar	-15°C – +90°C	7.5	DIN 2999 / ISO 228 / DIN 13	One-hand	straight-through	Water

Straight socket with tapered male thread and self-sealing Teflon coating

F Thr. connect.	ØA	B	C	ØD	E	G	Innen-ØSW	Weight	⊞	Type No. RED	Type No. BLUE
R 1/8 m	21	22	8	17.5	32	1.5	6	27.6	10	RPL 08.1150/KR	RPL 08.1150/KB
R 1/4 m	21	21	10	17.5	33	1.5	8	29.1	10	RPL 08.1151/KR	RPL 08.1151/KB
R 3/8 m	21	11	11	-	24	1.5	8	22.3	10	RPL 08.1152/KR	RPL 08.1152/KB

Straight socket with metric male thread

F Thr. connect.	ØA	B	C	ØD	E	G	Inner-ØHex.	Weight	⊞	Type No. RED	Type No. BLUE
M 10x1 m	21	22	8	17.5	32	1.5	6	28.7	10	RPL 08.1410/KR	RPL 08.1410/KB
M 10x1.5 m	21	22	8	17.5	32	1.5	6	27.1	10	RPL 08.1411/KR	RPL 08.1411/KB
M 14x1.5 m	21	21	8	17.5	32	1.5	8	29.4	10	RPL 08.1414/KR	RPL 08.1414/KB

Straight socket with cylindrical female thread

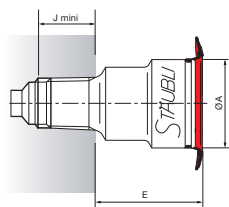
F Thr. connect.	ØA	B	G	Inner-ØHex.	Weight	⊞	Type No. RED	Type No. BLUE
G 1/8 f	21	35	1.5	6	44.7	10	RPL 08.1100/KR	RPL 08.1100/KB
G 1/4 f	21	39	1.5	8	43.8	10	RPL 08.1101/KR	RPL 08.1101/KB

Straight socket with tapered male thread with valve and self-sealing teflon coating

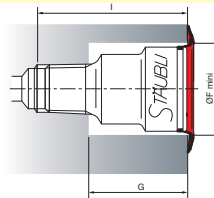
F Thr. connect.	ØA	B	C	E	G	Weight	⊞	Type No. RED	Type No. BLUE
R 3/8 m	21	11	16	29	1.5	26.3	10	RPL081152ONJVCR	RPL081152ONJVKB

Installation dimensions for the socket

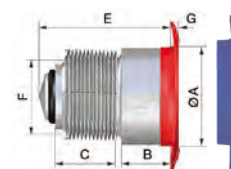
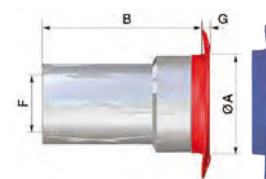
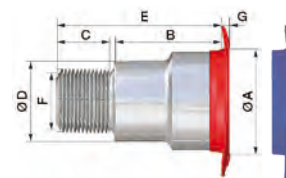
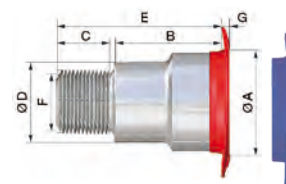
Thr. Connect	ØA	E	Jmin.	ØFmin.	G	I	Inner-ØHex.
G 1/8 f	21	23	10	22.5	24	33	6
G 1/4 f	21	22	12	22.5	23	34	8
G 3/8 f	21	12	13	22.5	13	25	8



Proud socket

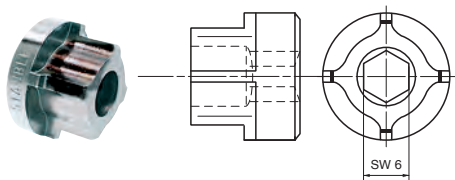


Flush socket

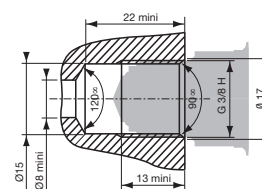
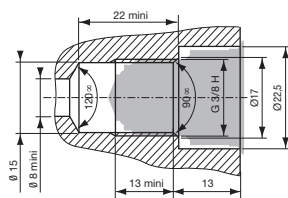


Installation tool for RPL 08/ON

Weight	Type No.
1 18	RPL 08.9000



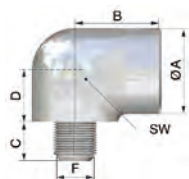
Installation dimensions of the RPL 08/ON socket into the mould max. tightening torque: 15 to 20 N.m



Temperature Regulation Quick Connect Couplings

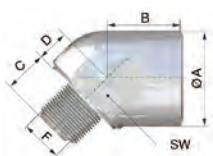
ORIGINAL STÄUBLI

RPL 08



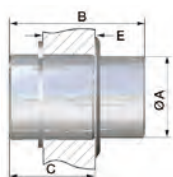
Socket 90° with tapered male thread

F Thread connection	ØA	B	C	D	SW	Weight	☐	Type No.
R 1/8 m	22	22	10	13	19	72.3	1	RPL 08.1150RE
R 1/4 m	22	22	12	13	19	74.3	1	RPL 08.1151RE
R 3/8 m	22	22	13	13	19	80.0	1	RPL 08.1152RE



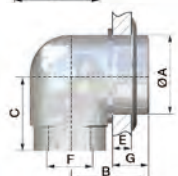
Socket 45°/135° with tapered male thread

F Thread connection	ØA	B	C	D	SW	Weight	☐	Type No.
R 1/8 m	22	18.5	10	6.5	19	49.4	1	RPL 08.1150RO
R 1/4 m	22	18.5	12	4.5	19	47.4	1	RPL 08.1151RO
R 3/8 m	22	18.5	12	4.5	19	60.3	1	RPL 08.1152RO



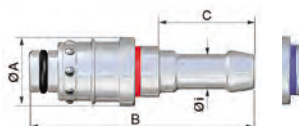
Panel/plate mounted straight socket

ØA	B	C	E max.	SW	Weight	☐	Type No.
22	35	23	10	19	57.9	1	RPL 08.2000



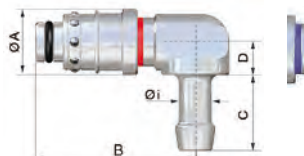
Panel/plate mounted socket 90° with cylindrical female thread

F Thread connection	ØA	B	C	E max.	G	Weight	☐	Type No.
G 1/4 f	22	22	21	6.5	10	78.7	1	RPL 08.2101RE



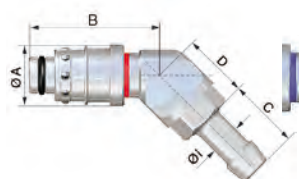
Straight plug for standard hose stem

Hose connection	Øi	A	L	C	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 6	6	20	66	28	49.5	1	RPL 08.6806/KR	RPL 08.6806/KB
Hose i.D. 8	8	20	66	28	50.9	1	RPL 08.6808/KR	RPL 08.6808/KB
Hose i.D. 10	10	20	66	28	53.1	1	RPL 08.6810/KR	RPL 08.6810/KB
Hose i.D. 13	12.5	20	66	28	62.3	1	RPL 08.6812/KR	RPL 08.6812/KB



Plug 90° for standard hose stem

Hose connection	Øi	ØA	L	C	D	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 6	6	20	48.5	28	23.5	115.0	1	RPL 08.6806REKR	RPL 08.6806REKB
Hose i.D. 8	8	20	48.5	23	23.5	117.4	1	RPL 08.6808REKR	RPL 08.6808REKB
Hose i.D. 10	10	20	48.5	23	10	97.3	1	RPL 08.6810REKR	RPL 08.6810REKB
Hose i.D. 13	12.5	20	48.5	28	10	103.9	1	RPL 08.6812REKR	RPL 08.6812REKB



Plug 45°/135° for standard hose stem

Hose connection	Øi	ØA	B	C	D	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 6	6	20	43	28	21	106.1	1	RPL 08.6806ROKR	RPL 08.6806ROKB
Hose i.D. 8	8	20	43	23	21	106.7	1	RPL 08.6808ROKR	RPL 08.6808ROKB
Hose i.D. 10	10	20	43	23	21	107.4	1	RPL 08.6810ROKR	RPL 08.6810ROKB
Hose i.D. 13	12.5	20	43	28	21	120.0	1	RPL 08.6812ROKR	RPL 08.6812ROKB

Temperature Regulation Quick Connect Couplings

ORIGINAL STÄUBLI

RPL 08

Straight plug with quick fit hose stem for self-locking hoses

Hose connect.	Øi	ØA	L	C	Øj	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 10	3/8"	20	62	24.5	19.5	50.9	1	RPL 08.6810CNKR	RPL 08.6810CNKB
Hose i.D. 13	1/2"	20	69	29	23.5	59.6	1	RPL 08.6813CNKR	RPL 08.6813CNKB

Plug 90° with quick fit hose stem for self-locking hoses - Hose fitting brass plain

Hose connect.	Øi	ØA	L	C	D	Øj	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 10	3/8"	20	48.5	24.5	23.5	19.5	117.3	1	RPL086810CNREKR	RPL086810CNREKB
Hose i.D. 13	1/2"	20	48.5	29	25.5	23.5	127.0	1	RPL086813CNREKR	RPL086813CNREKB

Plug 45° with quick fit hose stem for self-locking hoses- Hose fitting brass plain

Hose connect.	Øi	ØA	L	C	D	Øj	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 10	3/8"	20	43	24.5	21	19.5	106.3	1	RPL086810CNROKR	RPL086810CNROKB
Hose i.D. 13	1/2"	20	43	29	23	23.5	116.4	1	RPL086813CNROKR	RPL086813CNROKB

Straight plug female with cylindrical thread

F Thr. connect.	ØA	L	Weight	☐	Type No. RED	Type No. BLUE
G 1/4 f	20	48.5	48.6	1	RPL 08.6101/KR	RPL 08.6101/KB

Plug 90° female cylindrical thread

F Thr. connect.	ØA	L	C	E	Weight	☐	Type No. RED	Type No. BLUE
G 1/4 f	20	48.5	16.5	31	89.6	1	RPL 08.6101REKR	RPL 08.6101REKB

Plug 45° with cylindrical female thread

F Thr. connect	ØA	L	C	D	Weight	☐	Type No. RED	Type No. BLUE
G 1/4 f	20	43	14	27.5	81.2	1	RPL 08.6101ROKR	RPL 08.6101ROKB

RPL 08 bridge socket for temperature regulation bridges 90°

For tube o.D.	ØA	L	C	Weight	☐	Type No.
11	20	59	17	95.9	1	RPL 08.6000RE

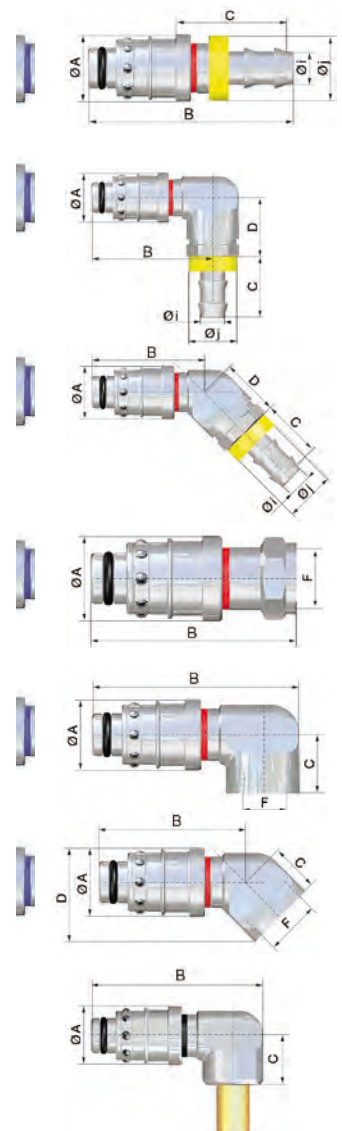
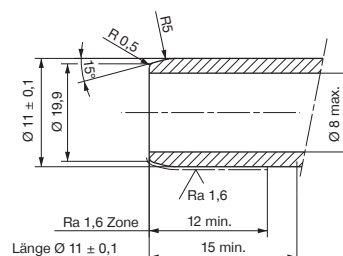
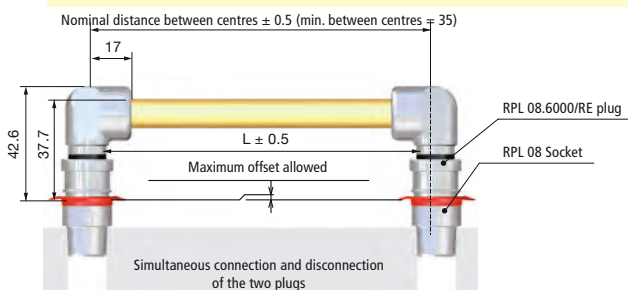
Tube available tube length = 1 Meter	Weight	☐	Type No.
	39.11	1	R 113 910 00

Tube preparation

Max. admissible offset allowed = nominal distance between centres x 0.02

Machining of the ends:

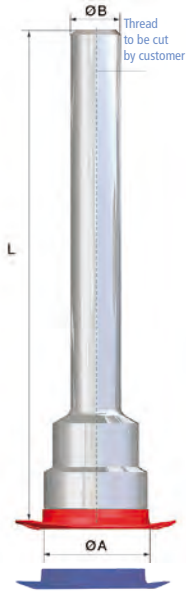
Tube length L = (nominal distance between centres - 10) ± 0.5
 E.g.: distance = 100 mm
 L = (100 - 10) ± 0.5 = 90 ± 0.5



Temperature Regulation Quick Connect Couplings

ORIGINAL STÄUBLI

RPL 08



Monobloc extended socket: with smooth finish

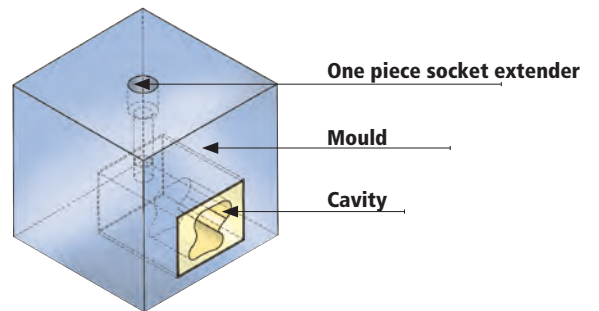
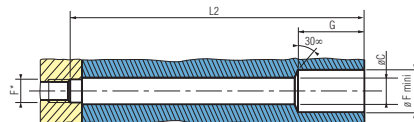
Thread-	Inner-											
Connection L	ØA	ØB	L2	G	ØC	ØFmin	Hex.	Weight	⊠	Type No. RED	Type No. BLUE	
R 1/8	33/100	21	10.2	L-5.5	23	11	22.5	6	10	1	RPL081010100KRR	RPL081010100KBR
R 1/8	100/150	21	10.2	L-5.5	23	11	22.5	6	10	1	RPL081010150KRR	RPL081010150KBR
R 1/8	150/200	21	10.2	L-5.5	23	11	22.5	6	10	1	RPL081010200KRR	RPL081010200KBR
R 1/8	200/250	21	10.2	L-5.5	23	11	22.5	6	10	1	RPL081010250KRR	RPL081010250KBR
R 1/4	34/100	21	13.5	L-7.5	23	14	22.5	8	30	1	RPL081011100KRR	RPL081011100KBR
R 1/4	100/150	21	13.5	L-7.5	23	14	22.5	8	30	1	RPL081011150KRR	RPL081011150KBR
R 1/4	150/200	21	13.5	L-7.5	23	14	22.5	8	30	1	RPL081011200KRR	RPL081011200KBR
R 1/4	200/250	21	13.5	L-7.5	23	14	22.5	8	30	1	RPL081011250KRR	RPL081011250KBR



Monobloc extended socket with cylindrical male threads

Thread-	Inner-											
Connection L	L1	Øa	L2	G	ØC	ØFmin	Hex.	Weight	⊠	Type No. RED	Type No. BLUE	
G 1/8 m	34/50	26	21	L-5.5	23	11	22.5	6	31.3	1	RPL08101050KRRF	RPL08101050KBRF
G 1/8 m	50/100	60	21	L-5.5	23	11	22.5	6	46.6	1	RPL81010100KRRF	RPL81010100KBRF
G 1/8 m	100/150	60	21	L-5.5	23	11	22.5	6	65.7	1	RPL81010150KRRF	RPL81010150KBRF
G 1/4 m	38.5/50	26.5	21	L-7.5	23	14	22.5	8	38.3	1	RPL08101150KRRF	RPL08101150KBRF
G 1/4 m	55/100	60	21	L-7.5	23	14	22.5	8	68.2	1	RPL81011100KRRF	RPL81011100KBRF
G 1/4 m	105/150	60	21	L-7.5	23	14	22.5	8	102.0	1	RPL81011150KRRF	RPL81011150KBRF
G 1/4 m	155/200	60	21	L-7.5	23	14	22.5	8	137.0	1	RPL81011200KRRF	RPL81011200KBRF

Installation of the sockets extenders into the mould



Temperature Regulation Quick Connect Couplings

ORIGINAL STÄUBLI

RPL 12

- Temperature regulation of mould tools for injection moulding
- For temperature regulation applications with hot or cold water
- Straight-through (free circulation guaranteed) with high flow rate and compact design
- Easy circuit identification
- Sockets with tapered male threads and Teflon coating guarantee self-sealing and immediate effective sealing
- Safe and fast controlled connection through coloured rings

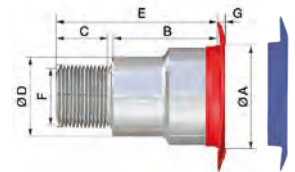
Materials

- Couplings, plugs: Brass nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: Nitrile (NBR), FKM O-rings also available on request

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media
PN 10 bar	-15°C – +90° C	12	DIN 2999 / ISO 228 / DIN 13	One-hand	straight-through	Water

Straight socket with tapered male thread and self-sealing Teflon coating

F Thr. Connect.	ØA	B	C	ØD	E	G	Inner-ØHex.	Weight	⊞	Type No. RED	Type No. BLUE
R 3/8 m	32	28	11	25	41	2	10	66.8	1	RPL 12.1152/KR	RPL 12.1152/KB
R 1/2 m	32	28	14	25	44	2	14	72.1	1	RPL 12.1153/KR	RPL 12.1153/KB
R 3/4 m	32	13	16.5	–	32	2	14	63.0	1	RPL 12.1154/KR	RPL 12.1154/KB



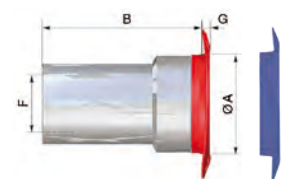
Monobloc extended sockets: smooth finish

Thr. Cont.	L	ØA	ØB	L2	G	ØC	Inner-		Weight	⊞	Type No. RED	Type No. BLUE
							ØFmin	ØHex.				
R 3/8 f	56/150	32	17.2	L-8.5	43	18	33.5	14	196.2	1	RPL121002150KRR	RPL121002150KBR
R 3/8 f	150/200	32	17.2	L-8.5	43	18	33.5	14	245.7	1	RPL121002200KRR	RPL121002200KBR
R 3/8 f	200/250	32	17.2	L-8.5	43	18	33.5	14	288.0	1	RPL121002250KRR	RPL121002250KBR
R 1/2 f	59/150	32	21.3	L-11.5	45	22	33.5	14	309.0	1	RPL121003150KRR	RPL121003150KBR
R 1/2 f	150/200	32	21.3	L-11.5	45	22	33.5	14	411.6	1	RPL121003200KRR	RPL121003200KBR
R 1/2 f	200/250	32	21.3	L-11.5	45	22	33.5	14	514.9	1	RPL121003250KRR	RPL121003250KBR



Socket with straight cylindrical female thread

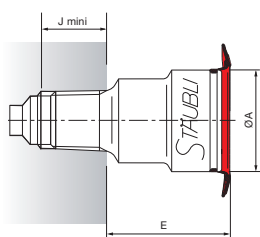
F Thr. Connect.	ØA	B	G	Inner-ØHex.	Weight	⊞	Type No. RED	Type No. BLUE
G 3/8 f	32	49	1.5	12	108.2	1	RPL 12.1102/KR	RPL 12.1102/KB
G 1/2 f	32	50	1.5	12	93.7	1	RPL 12.1103/KR	RPL 12.1103/KB



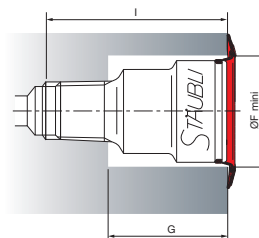
Installation dimensions for the socket

Thread connection	ØA	E	Jmin.	ØFmin.	G	I	Inner-ØHex.
G 3/8 f	32	29	13	33.5	30	42	10
G 1/2 f	32	30	15	33.5	31	45	14
G 3/4 f	32	15	18	33.5	20	36	14

Proud socket



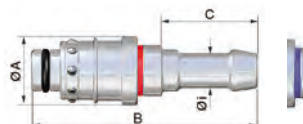
Flush socket



Temperature Regulation Quick Connect Couplings

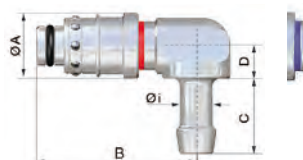
ORIGINAL STÄUBLI

RPL 12



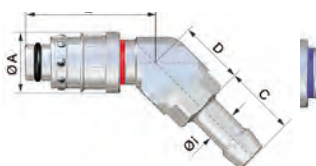
Straight plug with standard hose stem

Hose Connect.	Øi	ØA	L	C	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 13	13	28	78	33	129.9	1	RPL 12.6813/KR	RPL 12.6813/KB
Hose i.D. 16	16	28	78	33	129.9	1	RPL 12.6816/KR	RPL 12.6816/KB



Plug 90° with standard hose stem

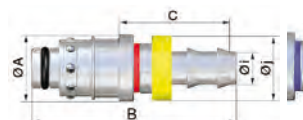
Hose Connect.	Øi	ØA	L	C	D	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 13	13	28	75.5	33	27	129.9	1	RPL 12.6813REKR	RPL 12.6813REKB
Hose i.D. 16	16	28	75.5	33	27	139.5	1	RPL 12.6816REKR	RPL 12.6816REKB



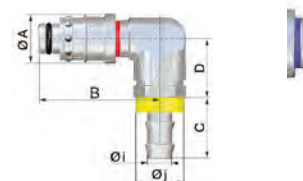
Plug 45° with standard hose stem

Hose Connect.	Øi	ØA	L	C	D	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 13	13	28	72	33	24	243.3	1	RPL 12.6813ROKR	RPL 12.6813ROKB
Hose i.D. 16	16	28	72	33	24	255.9	1	RPL 12.6816ROKR	RPL 12.6816ROKB

Straight plug with quick fit hose stem for self-locking hoses

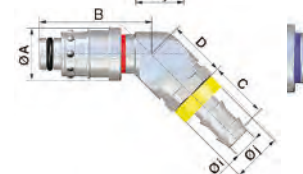


Hose Connect.	Øi	ØA	L	C	Øj	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 13	1/2"	28	74	29	23.5	233.2	1	RPL 12.6813CNKR	RPL 12.6813CNKB
Hose i.D. 16	5/8"	28	81.5	36.5	27	245.9	1	RPL 12.6816CNKR	RPL 12.6816CNKB



Plug 90° with quick fit hose stem for self locking hoses- Hose fitting plain

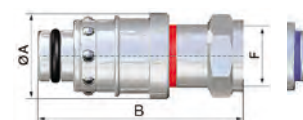
Hose Connect.	Øi	ØA	L	C	D	Øj	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 13	1/2"	28	75.5	29	30.5	23.5	126.7	1	RPL126813CNREKR	RPL126813CNREKB
Hose i.D. 16	5/8"	28	75.5	36.5	30	27	143.2	1	RPL126816CNREKR	RPL126816CNREKB



Plug 45° with quick fit hose stem for self-locking hoses- Hose fitting plain

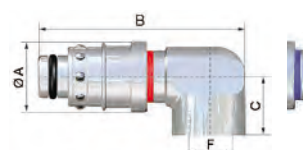
Hose Connect.	Øi	ØA	L	C	D	Øj	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 13	1/2"	28	72	29	27.5	23.5	246.3	1	RPL126813CNROKR	RPL126813CNROKB
Hose i.D. 16	5/8"	28	72	36.5	27	27	256.6	1	RPL126816CNROKR	RPL126816CNROKB

Straight plug with cylindrical female thread



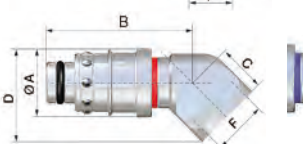
F Thread connection	ØA	L	Weight	☐	Type No. RED	Type No. BLUE
G 1/2 f	28	61	136.6	1	RPL 12.6103/KR	RPL 12.6103/KB

Plug 90° with cylindrical female thread



F Thread connection	ØA	L	C	E	Weight	☐	Type No. RED	Type No. BLUE
G 3/8 f	28	75.5	20	52.9	199.2	1	RPL 12.6102REKR	RPL 12.6102REKB

Plug 45° with cylindrical female thread




F Thread connection	ØA	L	C	D	Weight	☐	Type No. RED	Type No. BLUE
G 3/8 f	28	72	17	33	188.1	1	RPL 12.6102ROKR	RPL 12.6102ROKB

Temperature Regulation Quick Connect Couplings Accessories for **ORIGINAL STÄUBLI**

Replacement Nitril Seal for Plug



Packaging: sachets of 10

Model		Type No.
RPL 06	10	R 603 507 11
RPL 08	10	R 600 007 11
RPL 12	10	R 600 011 10

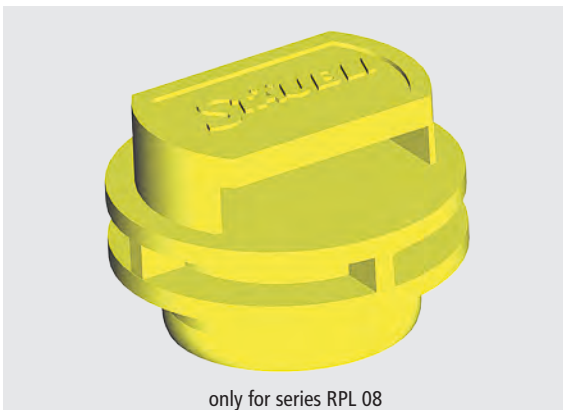
Colour Identification Collar for Hose



Colour identification collars for different hose dimensions (13 to 28 mm) in red or blue with various numbers (0 to 9) on request.


Packaging: sachets of 25 red or blue collars with the same number.

Protective Dust Cap for Socket



only for series RPL 08

Ensure cleanliness of your circuit

Material		Type No.
PE yellow	100	RPL 08.8500100



Temperature Regulation Accessories

Additional to our couplings we offer a wide range of accessories for Temperature Regulation applications.

SoftFlow Material Conveying Quick Connect Couplings



The **LUDECKE** SoftFlow Material Conveying Quick Connect Couplings are a high quality quick coupling system for pressure or vacuum-conveying of bulk material or liquids (e.g. for vacuum-conveying of granulate material in the plastics industry).

The SoftFlow products are easy to handle because of the quick coupling principle with ball shut-off and light weight. Due to the use of stainless steel for the coupling body, they are characterized by less abrasion.



Manifolds for Temperature Regulation Lines



The **LUDECKE** manifolds made of aluminium or stainless steel enable a clearly arranged composition of temperature regulation lines, which increases the working and production safety. The manifold guarantees a central in flow and out flow to the temperature regulation tool and saves energy and hose lines.



Colour Coding



A red or blue anodized aluminium ring for the sleeve can be ordered for easy identification and distinction between flow and return lines of the tempered circuit for the series ESHM, ESHME, ESH and ESHE.

The rings are also individually available for self-assembly. Simply slide the ring on the coupling sleeve for identification!

Screwings and Components



LUDECKE offers an extensive range of connecting fittings made of brass.

- Connection tubes
- Hose stems
- Connection nipples

Hose Clips and Ferrules



For hose assembly of fittings, different assembly methods from strong clamps to light clips or ferrules can be used subject to application, media, pressure or hose material. Selection criteria are: safety of the assembly, solvability, quickness, necessary devices, as well as cleanliness, or injury risk free.

- Double-Ear Hose Clips
- High Performance Hose Clips made of steel or stainless steel
- Ferrules for Low Pressure Hose Lines
- Hand-operated Assembly Machine

SoftFlow Material Conveying Quick Connect Couplings

made of Stainless Steel 1.4305

DN41

**Soft
Flow**
LUDECKE

- High quality quick coupling system for pressure or vacuum-conveying of bulk material or liquids, i.e. for vacuum-conveying of granulate materials in the plastics industry
- Less abrasion due to coupling body made of stainless steel
- Coupling sleeve, plug and cap made of aluminium (hard coated)
- Full, straight-through passage without profile narrowing
- Light weight, easy to handle
- Quick coupling principle with ball shut-off for easy operation
- Easy manual replacement of sealing rings
- Perfectly adapted hose stems for PVC- or polyurethane spiral-suction hoses
- Plug and coupling for tube connection with double O-ring sealing and fixing with screw

Max. Working Pressure	Temperature	DN	Operation	Type of valve	Vacuum	Media	☐
PN 10 bar	-15° – +95° C	41	Two-hands	Straight-through	Vacuum	Plastic granulate	1

SoftFlow Coupling with hose stem

Hose connection	L	D	L1	DS	Passage	Weight	Type No.
Hose i.D. 38	82	65	45	49	34	340	GRK 38 T
Hose i.D. 40	82	65	45	49	36	340	GRK 40 T
Hose i.D. 45	82	65	45	49	41	340	GRK 45 T
Hose i.D. 50	82	65	45	49	41	360	GRK 50 T

For hose clips type HS/ HSE (© page 415, 416)

SoftFlow Vacuum-Coupling for tube connection*

Connection	L	D	L1	DS	Passage	Weight	Type No.
Tube AD 38	70	65	30	49	34	480	GRK 38 R
Tube AD 40	70	65	30	49	36	480	GRK 40 R
Tube AD 45	70	65	30	49	41	520	GRK 45 R
Tube AD 50	70	65	30	49	41	580	GRK 50 R

SoftFlow Coupling with female thread

Thread connection	SW	L	D	L1	DS	Passage	Weight	Type No.
G 1 1/2 f	55	68	65	19	49	41	560	GRK 15 I
G 2 f	60	68	65	19	49	41	650	GRK 20 I

SoftFlow Cap Coupling with chain

L	D	DS	Length chain	Weight	Type No.
48	68	49	170	320	GRK-V

Original Sealing Ring for couplings

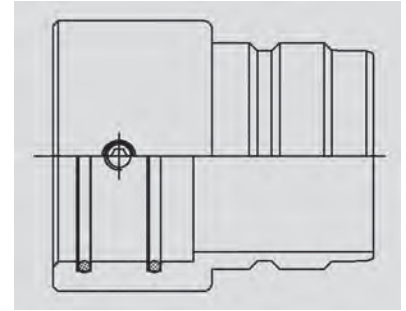
Type	Size	Material	☐	Weight	Type No.
O-ring	45 x 5	Buna N	10	6	GRK-D

Adapted hose stems for other hose dimensions/ types on request



Materials

- Sleeve: Aluminium (hard coated)
- Valve body, plug: Stainless steel 1.4305
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4304
- O-ring: Buna N
- Screw: Stainless steel 1.4301
- Cap plug: Aluminium (hard coated)



DN41

SoftFlow Plug with hose stem

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 38	83	55	45	36	49	34	310	GRS 38 T
Hose i.D. 40	83	55	45	36	49	36	315	GRS 40 T
Hose i.D. 45	83	55	45	36	49	41	330	GRS 45 T
Hose i.D. 50	83	55	45	36	49	41	360	GRS 50 T

For hose clips type HS/ HSE (© page 415, 416)



SoftFlow Vacuum-Plug for tube connection*

Connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Tube AD 38	68.5	58	30	36	49	34	360	GRS 38 R
Tube AD 40	68.5	58	30	36	49	36	370	GRS 40 R
Tube AD 45	68.5	58	30	36	49	41	385	GRS 45 R
Tube AD 50	68.5	58	30	36	49	41	420	GRS 50 R

* Attention: Only suitable for vacuum applications, sealing with O-ring, fixing with screw



SoftFlow Plug with female thread

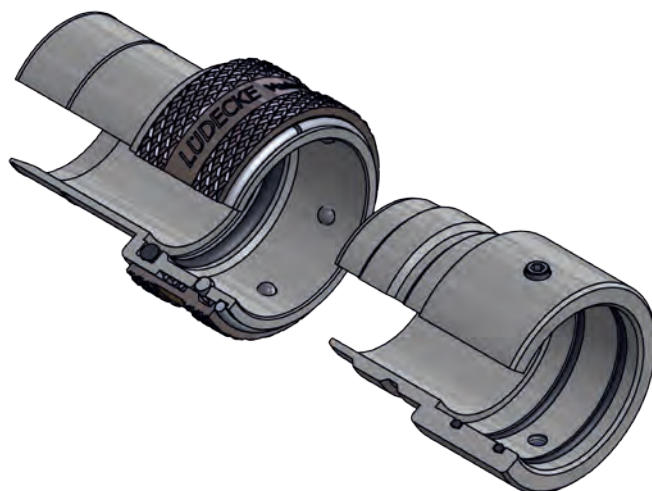
Thread connection	SW	L	D	L1	L2	DS	Passage	Weight	Type No.
G 1 1/2 f	55	65	59	19	36	49	41	350	GRS 15 I
G 2 f	60	65	59	19	36	49	41	380	GRS 20 I



SoftFlow Cap Plug with chain

L	D	L1	DS	Length chain	Weight	Type No.
60	58	36	49	170	195	GRS-V

Special types/versions, i.e. with bulkhead-screwing, plug or colour codings, other sizes on request



Manifolds for Temperature Regulation Lines

made of Aluminium (Anodised) and Stainless Steel 1.4401

- Manifolds, aluminium blue and red anodised or stainless steel 1.4401, for a clearly arranged composition of flow and reflux as close as possible to the mould tool, for a direct assembly to the machine
- Increases the working and production safety through its clearly arranged composition of temperature regulation lines, saves energy and hose lines because of central inlet of the temperature regulation media into the machine
- A central inflow from and outflow to the temperature regulation tool, as many outlets as necessary to the mould tool because of the modular construction and different lengths
- Profile can be extended or combined as often as desired due to the bar connector system
- Stainless steel manifolds mainly for applications with aggressive media
- Lateral inlet thread G 3/4 f, top outlet thread 1/4 f for coupling Series DN 6 and DN 9
- Other types / versions on request

Materials

- Manifold: Aluminium anodised/ Stainless steel 1.4401 • Plain End Plug: Brass MS 58

Max. Working Pressure	Temperature	Thread	Media	
PN 15 bar	-20°C – +200°C	ISO 228	Tempered media	1

Aluminium Manifolds

G*	G1**	L	B	L1	L2	L3	L4	ØC	A	D	B1	Colour	Weight	Type No.
2 x G 3/4 f	4 x G 1/4 f	190	43.5	75.6	30	41.5	57.2	4.5	41.3	38	31	blue	500	VB 34144-190 B
2 x G 3/4 f	4 x G 1/4 f	190	43.5	75.6	30	41.5	57.2	4.5	41.3	38	31	red	500	VB 34144-190 R
2 x G 3/4 f	6 x G 1/4 f	266	43.5	151.6	30	41.5	57.2	4.5	41.3	38	31	blue	700	VB 34146-266 B
2 x G 3/4 f	6 x G 1/4 f	266	43.5	151.6	30	41.5	57.2	4.5	41.3	38	31	red	700	VB 34146-266 R
2 x G 3/4 f	8 x G 1/4 f	342	43.5	227.6	30	41.5	57.2	4.5	41.3	38	31	blue	900	VB 34148-342 B
2 x G 3/4 f	8 x G 1/4 f	342	43.5	227.6	30	41.5	57.2	4.5	41.3	38	31	red	900	VB 34148-342 R
2 x G 3/4 f	10 x G 1/4 f	418	43.5	303.6	30	41.5	57.2	4.5	41.3	38	31	blue	1100	VB 341410-418 B
2 x G 3/4 f	10 x G 1/4 f	418	43.5	303.6	30	41.5	57.2	4.5	41.3	38	31	red	1100	VB 341410-418 R

Manifolds of Stainless Steel 1.4401

G*	G1**	L	B	L1	L2	L3	L4	ØC	A	D	B1	Weight	Type No.
2 x G 3/4 f	4 x G 1/4 f	190	43.5	75.6	30	41.5	57.2	4.5	41.3	38	31	1490	VBE 34144-190

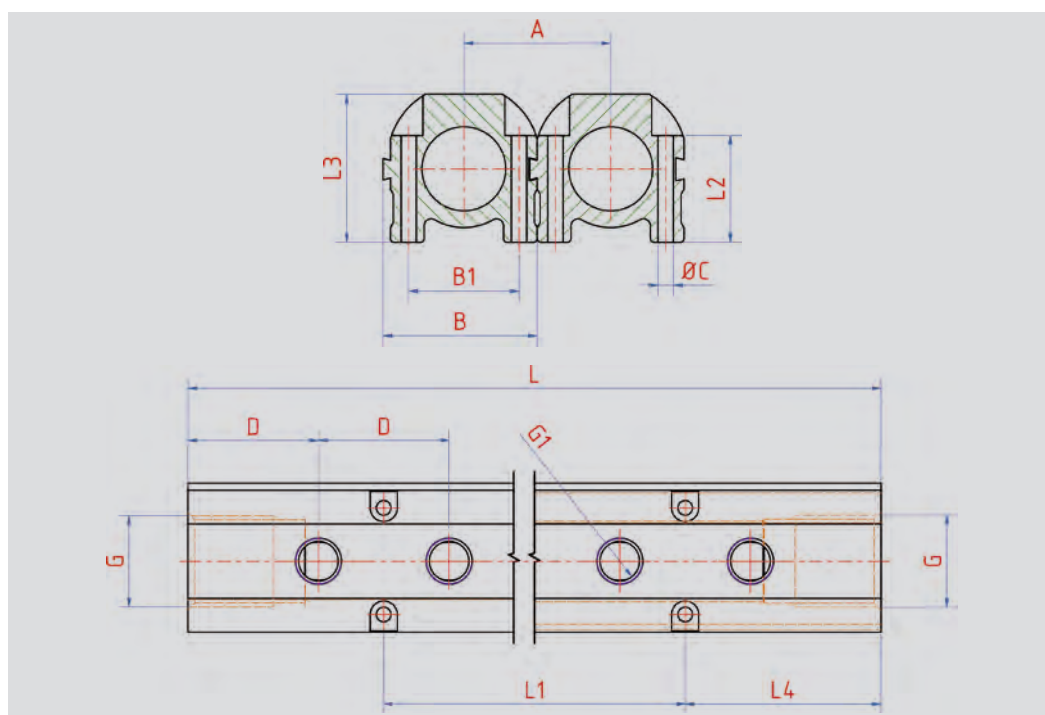
Plain End Plug for Manifolds

Thread	Inner Hexagon		Weight	Type No.
G 3/4 m	SW 12	5	80	VBS-34

*Thread connection on the side

**Thread connection on the top

3- and 4-way Manifolds of brass – (© page 120)



- Easy identification and distinction between flow and return lines of the tempered circuit with red or blue anodised colour coding (for the series ESHM, ESHME, ESH, ESHE)
- Surcharge per piece and a minimum order quantity of 20 pieces/type. When ordering, simply add to a standard article number "R" or "B" (e.g. ESH 13 TLR or ESHM 9 TALBB)
- The rings are also available for self-assembly. Simply slide the ring on the coupling sleeve for identification!

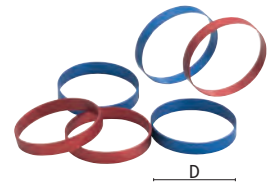
Materials

- Colour coding: Aluminium anodised

Marking rings for temperature regulation couplings

for coupling type	D	Colour		Weight	Type No.
ESHME,ESHM (DN 6)	17	red	50	1	ESHM-CR-R
ESHME,ESHM (DN 6)	17	blue	50	1	ESHM-CR-B
ESHE,ESH (DN 9)	22	red	50	2	ESH-CR-R
ESHE,ESH (DN 9)	22	blue	50	2	ESH-CR-B

Other coupling series available on request.



Screwings and Components

made of Brass MS 58 plain

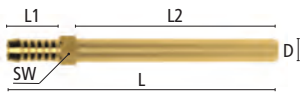
- For temperature regulation applications with hot or cold water as well as tempered oil
- Hose connections available with standard hose stem for standard hoses or quick-fit stem profile for quick-fit hoses

Materials

- Screwings, components: Brass MS 58 plain

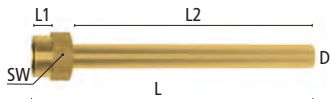
Max. Working Pressure	Temperature	Thread	Inner Cone	Media
PN 15 bar	-20°C – +200°C	ISO 228 / DIN 13	DIN 3863	Tempered media

Standard hose stem tubes for counter-sunk mould threads



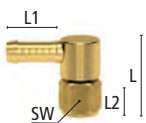
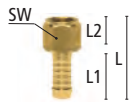
Thread connection	L	SW	D	L1	L2	Passage	Weight	Type No.
Hose i.D. 9	120	11	10	22.5	90.5	6	50	ESHM 120 RS
Hose i.D. 13	150	15	14	25	115	9	114	ESH 150 RS

Female thread tubes for counter-sunk mould threads



Thread connection	L	SW	D	L1	L2	Passage	Weight	Type No.
M 14x1.5 f	120	17	10	12	104.5	6	60	ESHM 120 RI
M 16x1.5 f	150	22	14	12	134.5	9	130	ESH 150 RI

Standard hose stems with outer cone DIN 3863 and hexagon nut. straight. 45° and 90°



Thread con.	Hose connect.	L	SW	L1	L2	Version	Passage	Weight	Type No.
G 1/4 f	Hose i.D. 9	40	17	23.5	10.5	gerade	6	31	ST 149 MHL
G 1/4 f	Hose i.D. 9	52	17	22.5	10.5	45°	6	60	ST 149 MHL-45
G 1/4 f	Hose i.D. 9	34	17	22.5	10.5	90°	6	60	ST 149 MHL-90
G 3/8 f	Hose i.D. 13	41	22	27	10	gerade	9	50	ST 3813 MHL
G 3/8 f	Hose i.D. 13	56	22	22.5	10	45°	9	80	ST 3813 MHL-45
G 3/8 f	Hose i.D. 13	40	22	22.5	10	90°	9	80	ST 3813 MHL-90
G 3/4 f	Hose i.D. 19	52	32	32	14	gerade	13	130	ST 3419 MHL
M 14x1.5 f	Hose i.D. 9	40	17	23.5	10.5	gerade	6	33	ST 14159 MHL
M 14x1.5 f	Hose i.D. 9	52	17	22.5	10.5	45°	6	60	ST 14159 MHL-45
M 14x1.5 f	Hose i.D. 9	34	17	22.5	10.5	90°	6	60	ST 14159 MHL-90
M 16x1.5 f	Hose i.D. 13	41	22	27	10	gerade	9	50	ST 161513 MHL
M 16x1.5 f	Hose i.D. 13	56	22	22.5	10	45°	9	80	ST 161513MHL-45
M 16x1.5 f	Hose i.D. 13	40	22	22.5	10	90°	9	80	ST 161513MHL-90
M 24x1.5 f	Hose i.D. 19	52	30	32	14	gerade	13	132	ST 241519 MHL

Male thread connection nipples with inner cone DIN 3863 – 60° cone



Thread connection	L	SW	L1	L2	Passage	Weight	Type No.
2 x G 1/4 m	23	17	9	9	6	21	D 14 MH
2 x G 3/8 m	23	19	9	9	9	39	D 38 MH
2 x G 1/2 m	30	22	12	12	13	46	D 12 MH
2 x G 3/4 m	40	27	16	16	13	125	D 34 MH
G 1/4 m - M 14x1.5 m	23	17	9	9	6	23	D 14-1415 MH
G 1/4 m - M 16x1.5 m	23	19	9	9	6	27	D 14-1615 MH
G 3/8 m - M 14x1.5 m	23	19	9	9	8	30	D 38-1415 MH
G 3/8 m - M 16x1.5 m	23	19	9	9	9	39	D 38-1615 MH
G 1/2 m - M 14x1.5 m	30	22	12	9	6	55	D 12-1415 MH
G 1/2 m - M 16x1.5 m	30	22	12	9	9	55	D 12-1615 MH
G 1/2 m - M 24x1.5 m	36	27	12	12	13	114	D 12-2415 MH
G 3/4 m - M 24x1.5 m	40	27	16	16	13	105	D 34-2415 MH
2 x M 14x1.5 m	23	17	9	9	6	30	D 1415 MH
2 x M 16x1.5 m	23	19	9	9	9	26	D 1615 MH
2 x M 24x1.5 m	40	27	16	16	13	25	D 2415 MH
M 14x1.5 m - M 16x1.5 m	23	17	9	9	9	20	D 1415-1615 MH
M 14x1.5 m - M 18x1.5 m	26	19	9	9	9	35	D 1415-1815 MH
M 16x1.5 m - M 18x1.5 m	26	19	9	9	9	37	D 1615-1815 MH

Screwings and Components

made of Brass MS 58 plain

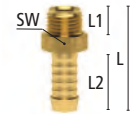
Female thread standard hose stems

Thr. connect.	Hose connect.	L	SW	L1	L2	Passage	⊠	Weight	Type No.
M 14x1.5 f	Hose i.D. 9	37.5	17	12	22.5	6	10	20	TI 14159 MHL
M 16x1.5 f	Hose i.D. 13	40	22	12	25	9	10	45	TI 161513 MHL
M 24x1.5 f	Hose i.D. 19	55	30	18	35	13	10	108	TI 241519 MHL



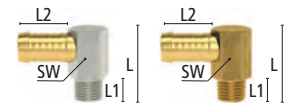
Male thread standard hose stems with inner cone DIN 3863 – 60° cone

Thr. connect.	Hose connect.	L	SW	L1	L2	Passage	⊠	Weight	Type No.
M 8x0.75 m	Hose i.D. 6	33.5	11	7	22.5	4.5	10	13	G 875-6 THL
M 8x0.75 m	Hose i.D. 9	33.5	11	7	22.5	4.5	10	19	G 875-9 THL
M 10x1 m	Hose i.D. 9	33.5	11	7	22.5	6	10	20	G 101-9 THL
G 1/8 m	Hose i.D. 9	33.5	11	7	22.5	6	10	20	G 18-9 THL
G 1/4 m	Hose i.D. 9	37.5	15	9	22.5	6	10	21	G 14-9 THL
G 1/4 m	Hose i.D. 13	40	15	9	25	8	10	34	G 14-13 THL
M 12x1.5 m	Hose i.D. 13	40	15	9	25	7	10	35	G 1215-13 THL
M 14x1.5 m	Hose i.D. 13	40	15	9	25	9	10	36	G 1415-13 THL
G 3/8 m	Hose i.D. 9	37.5	17	9	22.5	6	10	27	G 38-9 THL
G 3/8 m	Hose i.D. 13	40	17	9	25	9	10	36	G 38-13 THL
M 16x1.5 m	Hose i.D. 13	40	17	9	25	9	10	36	G 1615-13 THL
G 1/2 m	Hose i.D. 19	50	22	12	35	13	10	73	G 12-19 THL
M 24x1.5 m	Hose i.D. 19	56	27	16	35	13	10	114	G 2415-19 THL
G 3/4 m	Hose i.D. 19	56	27	16	35	13	10	125	G 34-19 THL



Male thread standard hose stems 90° (metric threads acc. DIN 158/R-threads acc. DIN 2999)

Thr. connect.	Hose connect.	L	SW	L1	L2	Passage	⊠	Weight	Type No.
M 5x0.5 m	Hose i.D. 5	15.5	9	5	18	2.7	10	9	ESHMC505-5SL-90
M 8x0.75 m	Hose i.D. 5	17.5	9	5	20	2.7	10	11	ESHMC875-5SL-90
M 8x0.75 m	Hose i.D. 9	27	15	9	20	4.5	10	35	ESHM 875-9SL-90
M 10x1 m	Hose i.D. 9	27	15	9	20	6	10	38	ESHM 101-9SL-90
R 1/8 m	Hose i.D. 9	27	15	9	20	6	10	38	ESHM 18-9SL-90*
M 14x1.5 m	Hose i.D. 13	34	17	11	24	9	10	47	ESH 1415-13SL-90
R 1/4 m	Hose i.D. 13	34	17	11	24	9	10	48	ESH 14-13SL-90*
R 1/2 m	Hose i.D. 19	47	24	16	32	13	10	158	ESHG 12-19SL-90*
M 24x1.5 m	Hose i.D. 19	47	24	16	32	13	10	165	ESHG2415-19SL90



Suitable hose clips, double-ear clips or crimping ferrules for standard hoses (©page 414 - 417)

Male thread quick-fit hose stems – 60° cone

Thr. connect.	Hose connect.	L	SW	L1	L2	Passage	⊠	Weight	Type No.
M 10x1 m	Hose i.D. 6	41	11	9	28	6	10	20	G 101-6 TH
G 1/8 m	Hose i.D. 6	39	14	7	28	4	10	16	G 18-6 TH
G 1/4 m	Hose i.D. 6	39	17	7	28	4	10	19	G 14-6 TH
G 1/8 m	Hose i.D. 10	39	14	7	28	5	10	21	G 18-10 TH
G 1/4 m	Hose i.D. 10	39	17	7	28	7	10	23	G 14-10 TH
G 1/4 m	Hose i.D. 13	39	17	7	28	9	10	28	G 14-13 TH
M 14x1.5 m	Hose i.D. 10	42	15	9	28	7	10	26	G 1415-10 TH
G 3/8 m	Hose i.D. 10	43	17	10	28	7	10	32	G 38-10 TH
G 3/8 m	Hose i.D. 13	43	17	10	28	9	10	36	G 38-13 TH
G 1/2 m	Hose i.D. 10	43	22	10	28	7	10	41	G 12-10 TH
G 1/2 m	Hose i.D. 13	43	22	10	28	9	10	41.5	G 12-13 TH
G 1/2 m	Hose i.D. 16	58	22	12	38	13	10	70	G 12-16 TH
G 3/4 m	Hose i.D. 16	62	27	16	38	13	10	120	G 34-16 TH
G 3/4 m	Hose i.D. 19	62	27	16	38	14	10	135	G 34-19 TH



Quick-fit hose menders with / without safety collar

Hose connection	L	L1	Passage	Version	⊠	Weight	Type No.
Hose i.D. 13	58	28	10	w safety collar	10	24	SV 13 R-TH
Hose i.D. 13	47	22.5	10	w/o safety collar	10	26	SV 13 R-THO
Hose i.D. 16	47	22.5	10	w/o safety collar	10	39	SV 16 R-THO

Safety instruction: Only use quick-fit hose stems in combination with suitable quick-fit hoses!

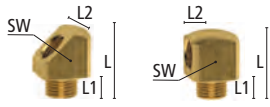


Coloured marking rings (© page 205)

*Hose sleeves with hexagon-thread nickel-pl. for simple differentiation

Screwings and Components

made of Brass MS 58 plain



Angle screwings for 45° or 90° connections for use as modular system

Thread connection	L	SW	L1	L2	Version	Weight	Type No.
G 1/4 m - G 1/4 f	29	20	8	10	45°	42	W 14 IA-45
G 1/4 m - G 1/4 f	29	20	8	13.5	90°	53	W 14 IA-90

To be combined with female thread couplings, male thread stems and male plugs G 1/4"



Swivel head screwing for trimming of blow nozzles

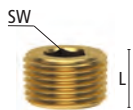
Thread connection	L	SW	D	L1	L2	Displacement	Weight	Type No.
G 1/4 m - G 1/4 f	53	22	27	9	10	aprox. 47°	104	KGV 14

(Temperature -20°C/+100°C)



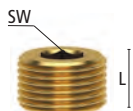
Male thread- / Female thread-reducing nipples

Thread connection	L	SW	L1	Weight	Type No.
M 14x1.5 m - M 10x1 f	11	17	7	10	R 1415-101 NH
M 18x15 m - M 14x15 f	14	22	9	10	R 1815-1415 NH
G 1/4 m - G 1/8 f	11	17	7	10	R 14-18 NH
G 3/8 m - G 1/4 f	13	19	9	10	R 38-14 NH
G 1/2 m - G 3/8 f	18	24	12	10	R 12-38 NH
M 24x1.5 m - M 16x1.5 f	24	27	16	10	R 2415-1615 NH
G 3/4 m - G 1/2 f	24	27	16	10	R 34-12 NH



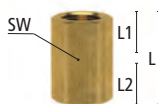
Locking screws with inner hexagon DIN 906 with tapered male thread

Thread connection	L	SW	Weight	Type No.
M 8x0.75 m	4	8	3	VS 875
M 10x1 m	5	8	3.5	VS 101
M 12x1.5 m	6	8	6	VS 1215
M 14x1.5 m	7	10	11	VS 1415
R 1/8 m	5	8	7.5	VS 18*
R 1/4 m	7	10	11	VS 14*
R 3/8 m	8	10	13	VS 38*
R 1/2 m	10	10	18	VS 12*



Locking screws with inner hexagon DIN 906 with parallel male thread

Thread connection	L	SW	Weight	Type No.
M 8x0.75 m	8	4	3	VS 875 ZY
M 10x1 m	8	5	3.5	VS 101 ZY
M 12x1.5 m	8	6	6	VS 1215 ZY
M 14x1.5 m	10	7	11	VS 1415 ZY
G 1/8 m	8	5	7.5	VS 18 ZY
G 1/4 m	10	7	11	VS 14 ZY
G 3/8 m	10	8	13	VS 38 ZY
G 1/2 m	10	10	18	VS 12 ZY



Female thread combination nipples

Thread connection	L	SW	L1	L2	Weight	Type No.
2 x G 1/4 f	26	17	12	12	21	U 14 NH
G 1/2 f - M 14x1.5 f	24	27	14	10	45	U 12-1415 NH
G 1/2 f - M 16x1.5 f	24	27	14	10	46	U 12-1615 NH
G 3/4 f - M 14x1.5 f	28	32	18	10	75	U 34-1415 NH
G 3/4 f - M 16x1.5 f	28	32	18	10	77	U 34-1615 NH

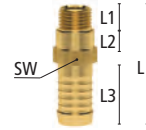
*Lockings screws with hexagon-thread nickel-pl. for simple differentiation

Screwings and Components

made of Brass MS 58 plain

Male thread standard hose stems with collar

Thread connect.	Hose Connection	L	SW	L1	L2	L3	Passage	Weight	Type No.
G 1/8 m	Hose i.D. 9	40	11	7	7	22.5	6	10 15	G 189 TA
G 1/4 m	Hose i.D. 13	47	15	9	7	25	9	10 33	G 1413 TA
G 1/2 m	Hose i.D. 19	62	22	12	10	32	13	5 100	G 1219 TA
G 3/4 m	Hose i.D. 19	62	27	12	10	32	13	5 150	G 3419 TA
M 10x1 m	Hose i.D. 9	40	11	7	7	22.5	6	10 15	G 1019 TA
M 12x1.5 m	Hose i.D. 13	47	15	9	7	25	8	10 33	G 121513 TA
M 14x1.5 m	Hose i.D. 13	47	15	9	7	25	9	10 33	G 141513 TA
M 24x1.5 m	Hose i.D. 19	62	27	12	10	32	13	5 140	G 241519 TA



High-Performance Hose Clips

made of Steel W1 (DIN 3017)

- High-performance hose clips made of steel W1, free of chrome VI, zinc-plated and thick layer passivated
- Optimum sealing through high band tension – maximum strip safety
- Hose-protective through rounded edges and smooth band inside
- Thinner screw body with new position, therefore improved torque
- Material and clamp range stamped at inner band side
- Hexagon screw with cross-slotted head
- Regularly spaced tension over complete hose diameter
- Up to size 90 in boxes, sizes 100-180 in plastic bags, from size 190 individually
- For safe, fast and removable use on various hoses and fittings for various media

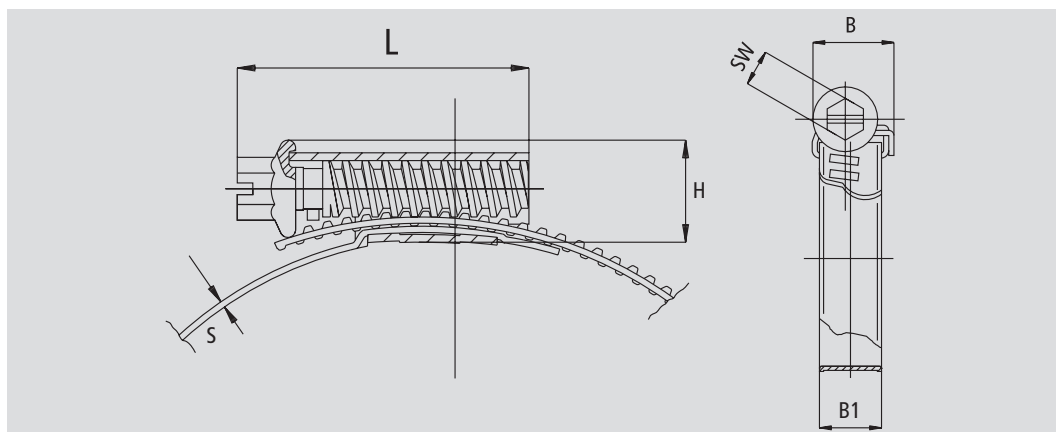
Materials

- Band, Body, Screw: Steel W1, zinc-plated and thick layer passivated

Norm	
DIN 3017	

High-Performance Hose Clips, band and lock steel W 1, zinc-plated

Range	torque		band width				Weight	Type No.			
	B	SW	Max.Nm	L	H	band-thickness					
mm	inch					B1	S				
8-12	5/18-1/2	14	7	2-2.5	20.5	11.5	9	0.7	100	12	HS 12
10-16	5/18-5/8	14	7	2-2.5	20.5	11.5	9	0.8	100	13	HS 16
12-22	1/2-3/4	14	7	3-3.5	24	11.5	9	0.8	100	16	HS 20
16-27	5/8-1	16	7	5-5.5	31	13	9	0.8	100	17	HS 25
20-32	3/4-1 1/4	16	7	5-5.5	31	13	12	0.8	50	27	HS 32
25-40	1-1 5/8	16	7	5-5.5	31	13	12	1.0	50	32	HS 40
30-45	1 3/8-1 3/4	16	7	5-5.5	31	13	12	1.0	50	33	HS 45
35-50	1 1/4-2	16	7	5-5.5	31	13	12	1.0	50	35	HS 50
40-60	1 5/8-2 3/8	16	7	5-5.5	31	13	12	1.0	25	39	HS 60
50-70	2-2 3/4	16	7	5-5.5	31	13	12	1.0	25	43	HS 70
60-80	2 3/8-3 1/8	16	7	5-5.5	31	13	12	1.0	25	45	HS 80
70-90	2 3/4-3 1/2	16	7	5-5.5	37	13	12	1.0	25	52	HS 90
80-100	3 1/8-4	16	7	5-5.5	37	13	12	1.0	10	53	HS 100
90-110	3 1/2-4 3/8	16	7	5-5.5	37	13	12	1.0	10	53	HS 110
100-120	4-4 3/4	16	7	5-5.5	37	13	12	1.0	10	58	HS 120
110-130	4 3/8-5 1/8	16	7	5-5.5	37	13	12	1.0	10	60	HS 130
120-140	4 3/4-5 1/2	16	7	5-5.5	37	13	12	1.0	10	63	HS 140
130-150	5 1/8-5 7/8	16	7	5-5.5	37	13	12	1.0	5	69	HS 150
140-160	5 1/2-6 1/4	16	7	5-5.5	37	13	12	1.0	5	71	HS 160
150-170	5 7/8-6 5/8	16	7	5-5.5	37	13	12	1.0	5	74	HS 170
160-180	6 1/4-7	16	7	5-5.5	37	13	12	1.0	5	77	HS 180
170-190	6 1/2-7 1/2	16	7	5-5.5	37	13	12	1.0	1	79	HS 190
180-200	7 1/8-8	16	7	5-5.5	37	13	12	1.0	1	81	HS 200
190-210	7 1/2-8 1/4	16	7	5-5.5	37	13	12	1.0	1	86	HS 210
200-220	8-8 3/4	16	7	5-5.5	37	13	12	1.0	1	92	HS 220
210-230	8 1/8-9	16	7	5-5.5	37	13	12	1.0	1	98	HS 230
220-240	8 3/4-9 3/8	16	7	5-5.5	37	13	12	1.0	1	101	HS 240
230-250	9-9 3/4	16	7	5-5.5	37	13	12	1.0	1	105	HS 250
240-260	9 3/8-10 1/4	16	7	5-5.5	37	13	12	1.0	1	108	HS 260
250-270	9 3/4-10 1/2	16	7	5-5.5	37	13	12	1.0	1	112	HS 270
260-280	10 1/4-11	16	7	5-5.5	37	13	12	1.0	1	116	HS 280



High-Performance Hose Clips

made of Stainless Steel W5 (DIN 3017)

- High performance hose clips made of stainless steel W5
- Optimum sealing through high band tension – maximum strip-safety
- Hose-protective through rounded edges
- Stamped band
- Thinner screw body with new position, therefore improved torque
- Material and clip range stamped at inner band side
- Hexagon screw with slotted head
- Regularly spaced tension over complete hose diameter
- Up to size 90 in boxes, size 100 in plastic bags
- For safe, fast and removable use on various hoses and fittings for various media

Materials

- Band, Body, Screw: Stainless steel W5
- Special Screw Driver: Chromed steel/ plastic

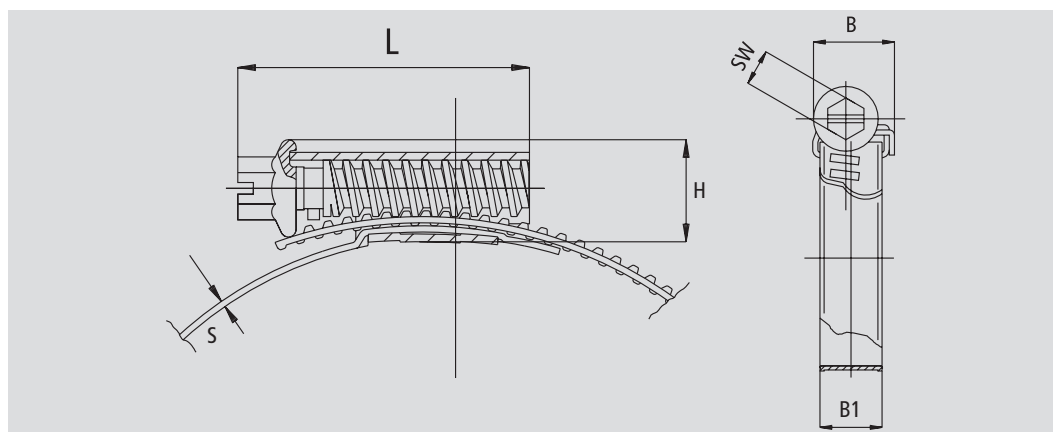
Norm	
DIN 3017	

High-Performance Hose Clips, band and lock stainless steel W 5

Range	torque		Band-width				Weight	Type No.
	B	SW	Max. Nm.	L	H	band-thickness		
mm	inch							
8-12	5/18-1/2	10.5 6	1.5	17	9.5	8 0.7	100	6 HSE 12
8-16	5/18-5/8	14 7	2-2.5	21	14	9 0.8	100	11 HSE 16
12-20	1/2-3/4	14 7	2-2.5	24	14	9 0.8	100	13 HSE 20
16-25	5/8-1	14 7	3-3.5	24	14	9 0.8	100	14 HSE 25
20-32	3/4-1 1/4	14 7	3-3.5	24	14	9 0.8	100	15 HSE 32
25-40	1-1 5/8	14 7	3-3.5	26	14	9 0.8	50	18 HSE 40
32-50	1 1/4-2	14 7	3-3.5	26	14	9 0.8	50	18 HSE 50
40-60	1 5/8-2 3/8	14 7	3-3.5	26	14	9 1.0	25	20 HSE 60
50-70	2-2 3/4	14 7	3-3.5	26	14	9 1.0	25	21 HSE 70
60-80	2 3/8-3 1/8	14 7	3-3.5	26	14	9 1.0	25	23 HSE 80
70-90	2 3/4-3 1/2	14 7	3-3.5	26	14	9 1.0	25	25 HSE 90
80-100	3 1/8-4	14 7	3-3.5	26	14	9 1.0	10	28 HSE 100

Special hexagon screw driver of chromed steel with plastic handle

Version	SW		Weight	Type No.
Rigid	7	1	89	SR STARR
Flexible	7	1	134	SR FLEX.

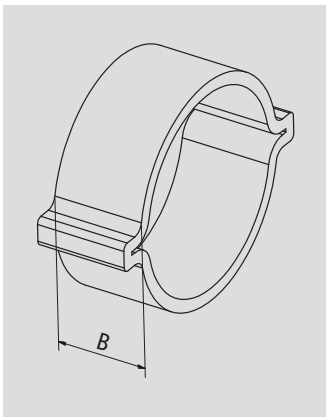


Double-Ear Hose Clips

- Clips of special reliable steel, zinc plated and blue chromated (free of chrome VI)
- Easy and fast assembly with pincer
- Concentric and strong clamp-effect, safe and unremovable
- No risk of injury, closed and unremovable connection
- Suitable for assembly of many hoses and fittings for use with various media

Materials

- Clips: Unbreakable special reliable steel, zinc-plated and blue chromated (free of chrome VI)



100

Double-Ear-Hose Clips

Hose-o.D./ Range	B	Weight	Type No.
5-7	5.5	1	ZOS 5-7
7-9	6	2	ZOS 7-9
9-11	6	2	ZOS 9-11
11-13	6	3	ZOS 11-13
13-15	7	4	ZOS 13-15
14-17	7.5	4	ZOS 14-17
15-18	8	5	ZOS 15-18
17-20	8	5	ZOS 17-20
19-21	7	5	ZOS 19-21
20-23	9	8	ZOS 20-23
22-25	9	9	ZOS 22-25
23-27	9	9	ZOS 23-27
25-28	9	10	ZOS 25-28
27-31	9	12	ZOS 27-31
31-34	9	13	ZOS 31-34
34-37	9	16	ZOS 34-37
37-40	9	17	ZOS 37-40
40-43	9	18	ZOS 40-43
Special assembly pincer		332	ZOSZ

Ferrules for Low Pressure Hose Lines

- Ferrules of redhotted steel, zinc-plated and yellow passivated
- Easy, fast and absolutely safe hose crimping with **LUDECKE** hand-operated assembly machine SPR 333 up to type LPH-23
- No risk of injury, closed and unremovable connection
- For crimping of various hoses and fittings for use with various media

Materials

- Body: redhotted steel, zinc-plated and yellow passivated

Max. Working Pressure									
PN 16 bar									
for hose									
D	DIN 20018	Water	PVC	L	D1	Assembly-M.	Weight	☐	Type No.
12.5				17	8.5	SPR 333	3	100	LPH-12,5
13.5			6x3	20	9.3	SPR 333	5	100	LPH-13,5
14.5	6x3.5			17	10	SPR 333	5	100	LPH-14,5
16			8x3	17	11.5	SPR 333	5	100	LPH-16
18	9x3.5		10x3	20	13.5	SPR 333	7	100	LPH-18
19			12x3	20	13.9	SPR 333	9	100	LPH-19
19.5				26	14.5	SPR 333	10	100	LPH-19,5
21				26	14.5	SPR 333	12	100	LPH-21
22				32	17	SPR 333	16	100	LPH-22
23		13x3		32	17	SPR 333	18	100	LPH-23
25	13x5			32	17		19	100	LPH-25
28	15x6			32	20.5		22	100	LPH-28
30.5		19x4		33	24.3		24	100	LPH-30
33	19x6			35	24.8		40	100	LPH-33
38		25x4.5		35	28		47	25	LPH-38
41	25x7			40	30		64	25	LPH-41

For higher Working Pressure we recommend hydraulic crimping with turned steel-ferrules type PH (☐ page 261) or on request.



Hand-operated Assembly Machine

for Low Pressure Ferrules

- Crimping machine for easy and safe assembly of low-pressure hoses from 3 to 20 mm Hose i.D.
- **Clean:** Exact assembling of fitting, hose and ferrule through centric crimping of the ferrule
- **Inexpensive:** Fast assembling at reasonable costs
- **Safe:** Improved safety through perfect fit
- **Elegant:** Reduced danger of injury
- With two crimping-jaw sets for crimping range from 3 to 20 mm and from 10 to 20 mm.
- **Flexible: For mobile use**

For hoses						
Hose o.D./						
Hose i.D.	Range	suitable ferrule	e.g. for fitting	☐	Weight	Type No.
3-20	10-22	LPH 12.5-23	Pneumatic-Connect., ES-Couplings	1	12.2	SPR-333





Construction Industry





Claw Couplings



Complete Screwing Sets, etc.



Mortar Couplings and Plugs



Sandblast Couplings



Hose Clamps and Hose Clips



Ball Valves and Throttle Valves



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Strong Couplings for Rough and Extreme Applications



Whether in classic construction, mining and tunneling, ship yards or petro-chemical, as well as steel or food industry: In such applications coupling systems are requested to withstand extreme tasks and environmental influences.

The **LUDECKE** construction product portfolio offers high-quality and robust products - optimized for various application areas and different media.

Advantages:

- High-quality and especially firm materials
- Robust, reliable, absolutely tight and durable
- Simple and intuitive handling
- Different sizes and connection types

Quality and Service



Engineered and Made in Germany - with this promise we guarantee not only products with high-quality materials, but also a comprehensive customer service.

On the following pages you can find information on how important it is to use high quality couplings and fittings. Avoid any kind of safety issues with the **LUDECKE** construction range, which is tested and meets the DIN regulations.

Use the opportunity at **LUDECKE** to get the perfect assembly to your desired hose. We are pleased to help you select the right fitting and assembly method (© page 222)

NEW!

Lifetime-Guarantee: Original **LUDECKE** Claw Couplings and Clamps made of malleable iron from the '60s still used today with pneumatic demolition hammers



Wide Selection

The **LUDECKE** product range for construction industry fittings contains robust and over decades proven coupling systems, for the usage in harsh environments. From the classic claw couplings, mortar couplings and sandblast couplings up to hose clamps and throttle valves in nearly all known variations and profiles.

Claw Couplings



Complete Screwing Sets, FlatLock Flat Hose
Screwings, Connecting
Nipples, Hose Connections



Mortar Couplings and Plugs



Sandblast Couplings



Hose Clamps and Hose Clips



Ball Valves and Throttle Valves



If no coupling system in this product range meets with your requirements, we would be pleased to design a customized version together with you.





Highest Quality for Safe Working

Avoid Safety Risks through Quality

Enormous Hazard Potential Caused by Inferior Material



Above: Original **LUDECKE** hose clamp DIN 20039 (malleable iron)

Below: Counterfeit from the Far East (no manufacturer's branding, inferior material)

Often cheap copies are offered on the claw coupling market – mostly with low grade casted material and poorly manufactured.

Also hose sets are highly affected due to the use of low quality hose clamps which are assembled and supplied, mostly from the Far East.

The use of such assemblies (couplings and hose clamps) contain an uncontrollable risk in operation. Due to imprecise casted hose barsbs and high tolerances of hose clamps, a safe fitting on the hose barb cannot be guaranteed.

Many casted components show significant tolerances, which often leads to leakages and does not allow a tight and safe connection.

Copies of Standardized Compressed Air Fittings often show a High Potential of Cracking

Geometric differences of the fittings are one visual part of the overall hazardous potential. More difficult to recognize is the fact, that copies are often manufactured with low quality materials and non-approved materials are used, i.e. white iron. The components may easily break or crack under heavy-duty utilization (i.e. assembled on strongly vibrating machines).



Original **LUDECKE** Claw Coupling
(DIN 3489)

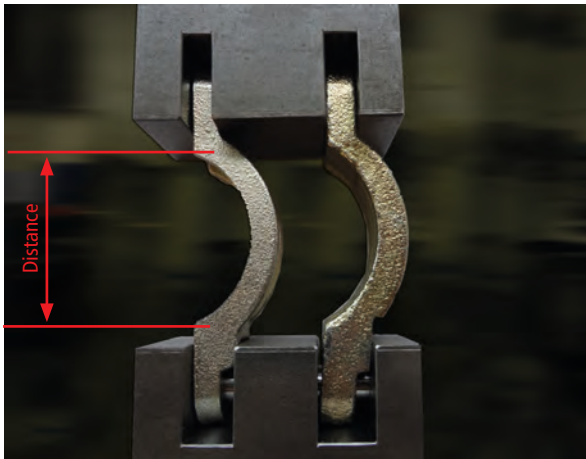


Counterfeit from the Far East
(no manufacturer's branding, inferior material)

Torn off claw within a very short period of time

The above mentioned couplings and clamps contain an enormous safety risk in operation! For safety reasons we strongly recommend not to use these products. These products do not at all comply with DIN 3489/3238 for claw couplings and DIN 20039 for clamps.

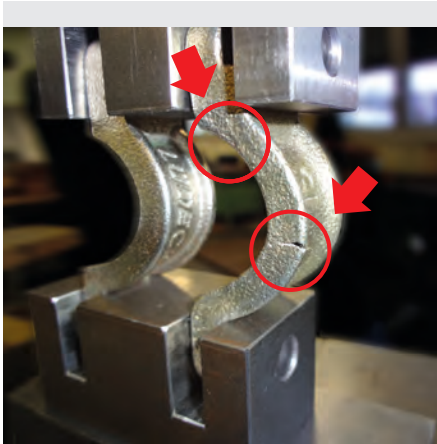
Breakage Test with Hose Clamps



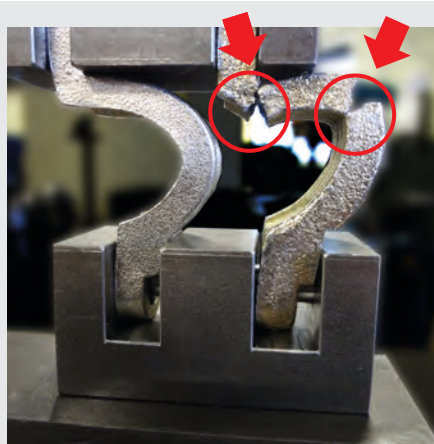
Test Setup - distance of 44,7 mm (left hand **LUDECKE** hose clamp, right hand: counterfeit from far east)

To illustrate the differences between the material qualities, **LUDECKE** conducted a fracture test with two hose clamps (original **LUDECKE**-hose clamp vs. a counterfeit from Far East). The hose clamps were inserted into a hydraulic press and tested under pressure.

Increasing the pressure at a distance of 40 mm the Far East counterfeit already shows cracking. While increasing the pressure slightly the clamp breaks completely. The original **LUDECKE** hose clamp made of malleable iron does not break despite major deformation.



Distance of 40 mm (no cracks in the **LUDECKE** hose clamp, cracking in the counterfeit)



Distance of 28 mm (no rupture in the **LUDECKE** hose clamp, complete break in the counterfeit)



Distance of 23 mm (no cracks in the **LUDECKE** hose clamp, completely destroyed counterfeit)

Safety by High-Quality and Standardized Components

To avoid such safety risks the following essential facts requires your attention:

- White iron and other inferior materials are hard and very brittle due to the high amount of cementite steel and therefore are inappropriate materials for heavy duty applications
- The production of malleable iron cast is cost intensive and therefore expensive because it undergoes an additional annealing heat treatment. This results in strongly improved mechanical characteristics (ie. high tensile strength and ductility), and is therefore suitable in applications for components which are subject to strong dynamic strains (ie. vibrations), and high mechanical loads
- To avoid the utilization of plagiarism, it is necessary to ensure, that the products are marked with a manufacturer's branding according to the current standards
- Only components that are in compliance with the existing standards (DIN 3489, DIN 3238, DIN 20039) should be sold and installed



Safe Assembly of Hoses with **LUDECKE** as Developing Partner

All relies on the Optimal Assembly

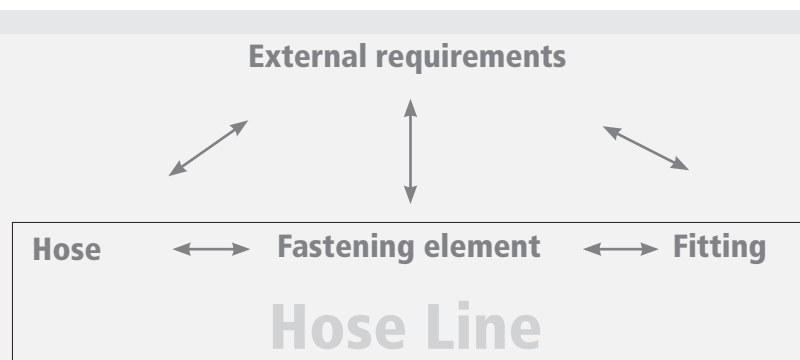


High-quality couplings and fittings are the premise for a reliable and safe operation - regardless of working area and used media.

However, only the functional interaction all of the affiliated components of a hose line achieves a permanent and satisfying result.

A hose line contains a flexible hose with fittings on both ends (e. g. hose couplings), which are assembled with fastening elements (e. g. clips, ferrules or clamps).

Not always without Problems



Everyone who is involved with the assembly of fittings on hoses unavoidably encounters the following problems:

There are a number of **hose manufacturers** that, due to non-existent standards, offer different hoses for one and the same hose size and identical operational applications. The differences lie within the inner and outer diameter of the hose wall. Also, the construction and the material of the hose can vary.

On the other side, there are the **fittings and couplings manufacturers**. They offer a large number of various fittings and assembly methods for the standard hose sizes from the hose manufacturer. But just like for the hoses, there are also measurement tolerance requirements for the fittings. This could lead to differences in the form and measurements of the barb contours from different manufacturers.

Assembled hose lines often show strong behavior variations with pressure and temperature. This usually leads to large problems, subject to application, with the security of the assembled hose and fitting.

Furthermore, the requirements continually increase on hose lines in terms of resistance to pressure, environment, operating temperature, chemical substances and outer mechanical stress.

Every Connection is only as Strong as its Weakest Link



Information about the maximum working pressure and application temperature for the individual components of a hose line can usually be taken from a data sheet.

- But what does the assembled state look like?
- Is the barb contour suitable for special hoses?
- How does the assembly behave when the hose heats during operation?

Due to the variety of impacting parameters, it is not possible to make a generalized statement about the reliability of the hose line based on the individual components.

Also, take into consideration that the distributor of such a hose assembly, generally, may be made liable for possible claim of compensation due to personal and/or material damages, as well as production downtime!

Busted hose - **LUDECKE** -fitting incl. assembly hold



LUDECKE - Your Competent Partner for Professional Hose Assemblies

We help you to eliminate possible insecurities right from the start and answer all of your questions. Just send us your desired hose type – we will advise you to choose the right fitting and correct assembling method.

As an experienced manufacturer of high-quality fittings, you benefit from our know-how and our superior testing possibilities. In addition, we employ accredited hose assembly inspectors and testers. When the hose line is complete and assembled, we test it under pressure and therefore a reliable statement over the reliability can be made.

With this said, you receive the optimal solution for the application from us!

REQUIRED INFORMATION FOR THE TEST:



Sample of desired Hose



Conducted Media



Working and Environmental Temperatures



Outer Stress (static/dynamic)



Hose Line Working Pressure



Height and Frequency of possible Pressure Surges

If you cannot find a suitable measured fitting for your hose, we can produce a customized solution from a specified quantity.



Claw Couplings

The Robust Classic



The **LUDECKE** claw coupling is used worldwide in various compressed air applications in the industrial and construction industry.

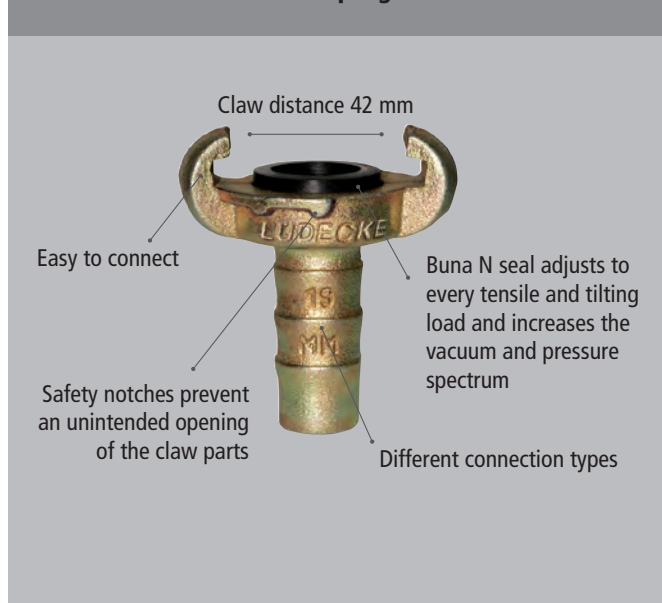
Malleable iron is the only material we use in our manufacturing process (exception is stainless steel for critical media). This cast material allows, due to its heating treatment, the required flexibility also for thin walled materials and complies with DIN 3489 and DIN 3238.

Advantages:

- High-quality materials
- Robust, reliable, absolutely tight and durable
- Simple and fast handling
- Increased safety with MODY-Safety-Screwing-Couplings and the use of claw couplings with safety collar
- Identical coupling head: connection versions and sealing systems can be connected with each other
- Maximum bore for maximum flow
- Different connection and thread types

Highest Quality for Carefree Working

Hose Claw Coupling DIN 3489



MODY-Safety-Screwing-Coupling DIN 3238



The Coupling Concept: Simply Brilliant

Both claw heads are pushed together so the sealing surfaces are in touch. Then the two ends are turned (45 degree) until the claws are engaged.



To disconnect press the two ends together, twist them backwards to open and take off one end.

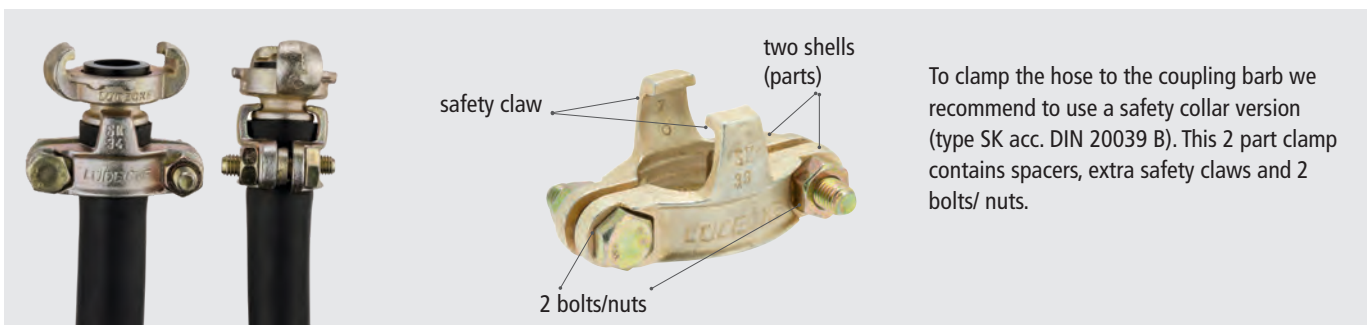


To ensure a proper locking, the MODY Safety Screwing Coupling is locked with an additional locking nut underneath the claw head.

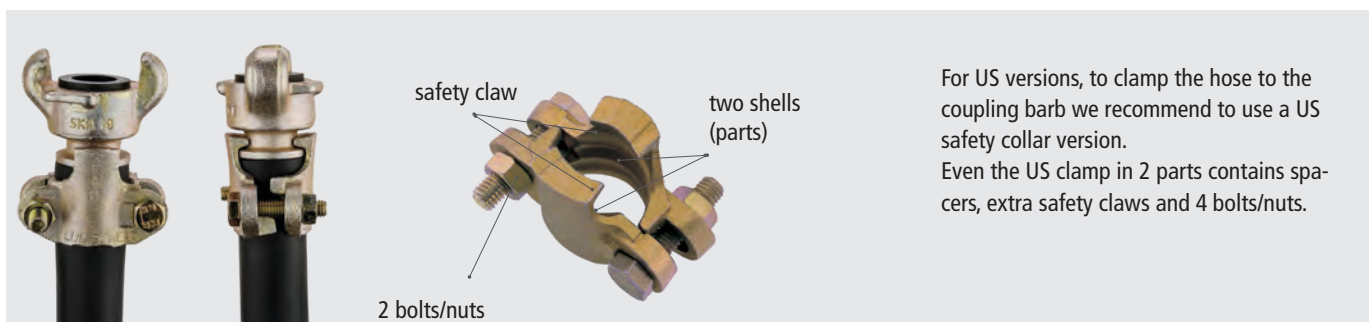
Safe Hose Fit: Claw Couplings with a Safety Collar

Most of the **LUDECKE** claw couplings are available with an additional safety collar on the hose barb. In combination with our special safety clamps a perfect and ultimate tight fixing of a hose can be provided. The special claws of the clamp provide an interlock on the collar to the hose barb. These safety clamps prevent any kind of movement or even an unintended slip off the hose of the coupling barb. Additionally this design offers a technical and correct assembly of the hose – prevents wrong assembly.

Claw Couplings with Safety Collar + Hose Clamp DIN 20039 B (Type SK)



US-Claw Couplings with Safety Collar + US Hose Clamp (Typ LB/SKA/LBU)



Claw Couplings acc. DIN 3238 – Overview

DIN 3238 for claw couplings

Special requirements

- Threads according to DIN EN ISO 228-1 and ANSI/ ASME B 1.20.1
- Claw couplings and sealing rings corresponding to this standard **must have manufacturer markings!**
- Working pressure **max. 16 bar**
- **100 % visual control**
- **100 % function test with gauge (coupling control).**
- **Approved raw materials used only:**

Malleable Iron: EN-GJMW-400-5(EN-JM1030) according to DIN EN 1562

M1-Alloy: Alloy DIN 17660-CuZn39Pb2 (2.0380)

Steel: Type to be chosen by manufacturers

11SMnPb30 (1.0718) according to DIN EN 10087 · 11SMnPb30 (1.0718) according to DIN EN 10277-3

X5CrNi Mo 17-12-2 (1.4401) according to DIN EN 10088-1 · G-X5CrNiMo 19-11-2 (1.4408)

according to DIN EN 10213-4

G-X5CrNiMoNb 19-11-12 (1.4581) according to DIN EN 10213-4

- New seal
- New seal holder - 2 way guidance

New seal holder embedded in coupling body



MODY-Safety-Screwing Couplings of Malleable Iron/Steel



- Instead of expensive and unhandy hosebreak secure systems
- Easy to couple, secured against accidental opening: locking nut
- For absolutely safe air lines in construction and industry

Technical data

Max. Working Pressure:	16 bar
Temperature:	-40°C - +95°C
Material:	Malleable iron/steel
Media:	Compressed air
Claw Distance:	42 mm
Material Seal:	Buna N
Threads:	DIN EN ISO 228-1 and ANSI/ ASME B 1.20.1

 RAL 5010

 RAL 6029

 RAL 1004

 RAL 2002

(© page 232)

MODY-Safety-Screwing Couplings of Stainless Steel



- Of rust- and acid-resistant stainless steel 1.4305 with acid-resistant FKM rubber ring
- Investment casted, perfect surface finish
- For tank- or container construction in chemical or petrochemical industry as well as food- or drinking-water applications

Technical data

Max. Working Pressure:	16 bar
Temperature:	-30°C - +200°C
Material:	Stainless steel 1.4401, 1.4404
Media:	Chemical substances
Claw Distance:	42 mm
Material Seal:	FKM
Thread:	ISO 228

(© page 325)

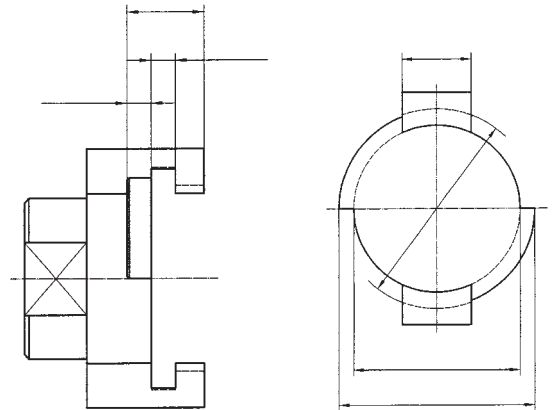
Claw Couplings acc. DIN 3489 – Overview

DIN 3489 for claw couplings

Special requirements

- Threads according to DIN EN ISO 228-1 and ANSI/ ASME B 1.20.1
- Claw couplings and sealing rings corresponding to this standard **must have manufacturer markings!**
- Working pressure **max. 10 bar**
- **100 % visual control required**
- **100 % function test with gauge (coupling control)**
- **Approved raw materials used only:**
 Malleable Iron: EN-GJMW-400-5(EN-JM1030) according to DIN EN 1562
 M1-Alloy: Alloy DIN 17660-CuZn39Pb2 (2.0380)
 Steel: Type to be chosen by manufacturer
 11SMnPb30 (1.0718) according to DIN EN 10087
 11SMnPb30 (1.0718) according to DIN EN 10277-3
 X5CrNi Mo 17-12-2 (1.4401) according to DIN EN 10088-1
 G-X5CrNiMo 19-11-2 (1.4408) according to DIN EN 10213-4
 G-X5CrNiMoNb 19-11-12 (1.4581) according to DIN EN 10213-4

Test gauge for claw couplings



Claw Couplings Standard Version



- Universal coupling: worldwide system for compressed air in construction and industry

Technical data

Max. Working Pressure: 10 bar
 Temperature: -40°C - +95°C
 Material: Malleable iron
 Media: Compressed air
 Claw Distance: 42 mm
 Material Seal: Buna N
 Thread: ISO 228

(© page 230)

Claw Couplings Swivelling



- 360° swivelling, easy to swivel under pressure, no hose twist
- For flexibility of compressed air lines in construction and industry
- When used as a threaded version and assembled on a tool – duration time up to 10 times longer vs a standard coupling (swivel function absorbs all vibrations)




Technical data

Max. Working Pressure: 10 bar
 Temperature: -40°C - +95°C
 Material: Malleable iron/steel
 Media: Compressed air
 Claw Distance: 42 mm
 Material Seal: Buna N
 Thread: ISO 228

(© page 229)



Claw Couplings acc. DIN 3489 - Overview



Claw Couplings of Stainless Steel

<p>EKA</p> 	<p>EKT</p> 	<ul style="list-style-type: none"> • Of corrosion-resistant stainless steel 1.4401 and 1.4404 with acid-resistant FKM rubber ring • Investment casted, perfect surface finish • For tank or container construction in chemical or petrochemical industry as well as food or drinking water applications <p>Technical data</p> <p>Max. Working Pressure: 16 bar Temperature: -30°C - +200°C Material: Stainless steel 1.4401/ 1.4404 Media: Chemical substances Claw Distance: 42 mm Material Seal: FKM Thread: ISO 228</p>
<p>EKI</p> 		


(© page 324)

Other Claw Couplings

<p>Claw Couplings with Brass Seal</p> 	<ul style="list-style-type: none"> • Prevents sticking of seals when coupled • Always to be coupled with a standard claw coupling with Buna N seal • Universal couplings for compressed air lines in construction or industry, mainly used directly on compressed air tools <p style="text-align: right;">(© page 234)</p>	<p>Claw Couplings with Bore for Safety-Clips</p> 	<ul style="list-style-type: none"> • Additional safety feature by using the safety-clips DIN 11024 to prevent unintentional opening • Universal coupling, worldwide system mainly used in mining and tunneling <p style="text-align: right;">(© page 235)</p>
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<p>Claw Couplings Left-Closing and Colour Coated</p> 	<ul style="list-style-type: none"> • Additional warning through ears at the claws or colour coated • Cannot be connected with standard claw couplings (right-closing) • Locking nut • In chemical or petrochemical plants to avoid connection of different fluids i.a. compressed air, steam, gas media, nitrogen <p style="text-align: right;">(© page 236)</p>	<p>Claw Coupling of Forged Steel, Compatible to Type "Atlas Copco"</p> 	<ul style="list-style-type: none"> • Equivalent to type "Atlas Copco" • Maximum bore for maximum flow capacity to reach full tool performance • High quality coupling for compressed air in construction and industry <p style="text-align: right;">(© page 237)</p>
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RAL 5010
 RAL 6029
 RAL 1004
 RAL 2002

<p>Claw Couplings of Forged Brass MS 58</p> 	<ul style="list-style-type: none"> • "French System" • 42 mm claw distance • For compressed air and water in construction, agriculture and industry <p style="text-align: right;">(© page 238)</p>	<p>Claw Couplings US-Version with Bore for Safety-Clips</p> 	<ul style="list-style-type: none"> • Robust standard couplings and MODY-Safety-Screwing Couplings • 41 mm claw distance • Additional safety feature by using the safety clips DIN 11024 to prevent accidental opening • US-universal coupling, widely spread system for compressed air in construction and industry <p style="text-align: right;">(© page 239)</p>
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Claw Couplings

Swivelling, DIN 3489



- High quality couplings, head of malleable iron, thread connections and hose stem of turned steel with special profile, zinc-plated and yellow passivated (free of chrome VI) with safety notches
- 360° swivelling, easy turning under pressure, therefore no hose twist
- Sealing through 2 O-rings, swivelling on 2 teflon-discs, safe and protected
- 100 % tight through machined seal holder, standard rubber ring can be used (GOER)
- Full bore for increased flow capacity
- On request with steam resistant rubber ring GDOR against surcharge
- 100 % couple test and sight control
- For flexibility of compressed air lines in construction and industry, if used as thread coupling assembled at the tool up to 10 times higher durability compared to rigid standard couplings! The swivel principle absorbs all vibrations!

Materials

- Claw: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- O-rings: Buna N
- Connector: Steel zinc-plated and yellow passivated (free of chrome VI)

Max. Working Pressure	Temperature	Thread	Norm	Claw Distance	Media	⊗
PN 16 bar	-40°C – +95°C	ISO 228	DIN 3489	42 mm	Air a.o.	5

Hose Claw Couplings

Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 13	87	63	41	10	221	SKG 13-DR
Hose i.D. 19	87	63	41	15	230	SKG 19-DR
Hose i.D. 25	87	63	41	19	260	SKG 25-DR

For hose clamps DIN 20039 A type SL (⊗ page 413) or crimping sockets type LPH (⊗ page 418)

Hose Claw Couplings with safety collar

Hose connection	L	B	L1	∅Collar	Passage	Weight	Type No.
Hose i.D. 13	96	63	41	24	10	236	SKB 13-DR
Hose i.D. 19	98	63	41	34	15	250	SKB 19-DR
Hose i.D. 25	98	63	41	39	19	290	SKB 25-DR

For hose clamps DIN 20039 B type SK (⊗ page 413)

Female Claw Couplings

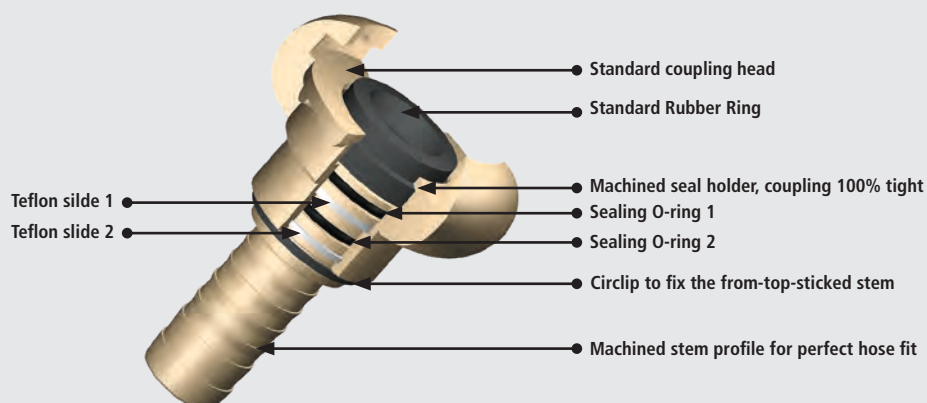
Thread connection	L	B	SW	L1	Passage	Weight	Type No.
G 1/2 f	61	63	24	15	17	240	KIG 12-DR
G 3/4 f	85	63	32	15	17	330	KIG 34-DR
G 1 f	90	63	41	15	17	430	KIG 10-DR

Male Claw Couplings

Thread connection	L	B	SW	L1	Passage	Weight	Type No.
G 1/2 m	67	63	24	14	13	240	KAG 12-DR
G 3/4 m	68	63	24	15	17	236	KAG 34-DR
G 1 m	83	63	36	15	19	315	KAG 10-DR

Original Rubber Rings

Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A	⊗	Weight	Type No.
Oil	11	34	20	Buna N	-40 – +95	Compr. air	black	65°	100	6	GOER
Steam	10	33	20	TFEP	-40 – +200	Steam	red	65°	10	6	GDOR



Claw Couplings

Standard Version DIN 3489

- Robust couplings of malleable iron, zinc-plated and yellow passivated (free of chrome VI) with safety notches
- 100 %couple test and sight control
- With oil-resistant rubber ring GOER, on request with steam-resistant rubber ring GDOR (up to 200°C) against surcharge
- **Universal coupling, world-wide used system for compressed air in construction and industry**

Materials

- Claw, connector: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- O-rings: Buna N

Max. Working Pressure	Temperature	Thread	Norm	Claw Distance	Media	
PN 10 bar	-40°C – +95°C	ISO 228, ANSI/ ASME B 1.20.1	DIN 3489	42 mm	Compressed Air	10

Hose Claw Couplings (formerly DIN 3483)



Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 6	70	63	25	5	157	SKG 6
Hose i.D. 10	76	63	45	7	150	SKG 10
Hose i.D. 13	69	63	45	8.5	141	SKG 13
Hose i.D. 15	69	63	45	11	142	SKG 15
Hose i.D. 19	69	63	45	15	155	SKG 19
Hose i.D. 25	70	63	46	19	176	SKG 25
Hose i.D. 32	90	63	64	20	244	SKG 32

For hose clamps DIN 20039 A type SL (☺ page 413) or crimping sockets type LPH (☺page 418)

Hose Claw Couplings with safety collar

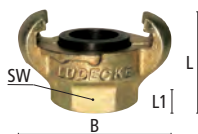


Hose connection	L	B	L1	∅Collar	Passage	Weight	Type No.
Hose i.D. 13	75	63	35.5	25	8,5	174	SKB 13
Hose i.D. 15	75	63	35.5	26	11	175	SKB 15
Hose i.D. 19	75	63	40.5	28,5	15	182	SKB 19
Hose i.D. 19	73.5	63	41	24	15	160	SKB 19 FL*
Hose i.D. 25	75	63	40.5	40	20	240	SKB 25
Hose i.D. 25	75	63	40.5	30	20	190	SKB 25 FL*

* at hose version, integrated with hose clamps SK..FL

For hose clamps DIN 20039 B, type SK (☺ page 413), safe hose assembly

Female Claw Couplings (formerly DIN 3482)



Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 1/4 f	36	22	63	12	11	138	KIG 14
G 3/8 f	36	22	63	12	15	135	KIG 38
G 1/2 f	38	27	63	12	19	150	KIG 12
G 1/2 f	41	-	63	14.5	19	180	KIGO 12**
G 3/4 f	40	32	63	14.5	20	155	KIG 34
NEW! NPT 3/4 f	38	32	63	17	20	160	KIG 34 NPT
G 3/4 f	41	-	63	14.5	20	155	KIGO 34**
G 1 f	40	41	63	18	20	184	KIG 10
NEW! NPT 1 f	40	40	63	18	20	180	KIG 10 NPT
G 1 1/4 f	55	50	63	18	20	297	KIG 54

** without Hexagon

Blank Ends (formerly DIN 3484)



Version	L	B		Weight	Type No.
without chain	43	63	10	130	VKO
with chain	43	63	10	140	VKM
chain (spare part)	200	38	25	7	VKM-K

Claw Couplings

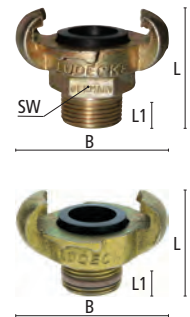
Standard Version DIN 3489

Male Claw Couplings (formerly DIN 3481)

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 1/4 m	50	22	63	9	6	157	KAG 14
G 3/8 m	52	27	63	14	9	170	KAG 38
G 1/2 m	47	27	63	14	13	162	KAG 12
NEW! NPT 1/2 m	49	27	63	16	13	166	KAG 12 NPT
G 3/4 m	50	32	63	14.5	17	175	KAG 34
NEW! NPT 3/4 m	49	32	63	17	18	176	KAG 34 NPT
G 3/4 m	41	-	63	15	17	150	KAGO 34**
G 1 m	47	40	63	15	20	174	KAG 10
NEW! NPT 1 m	48	40	63	15	20	196	KAG 10 NPT
G 1 m	41	-	63	15	20	165	KAGO 10**
G 1 1/4 m	52	46	63	18	20	230	KAG 54

Easy male thread sealing with PVC-Packings rings type HPD (© below)

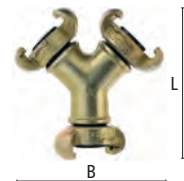
** without Hexagon, with LÜDSY-sealing ring



Max. Betriebsdruck	Temperature	Thread	Claw Distance	Media
PN 10 bar	-40°C – +95°C	ISO 228/ DIN 2999	42 mm	Air

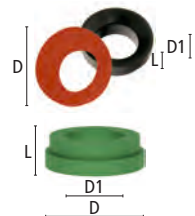
Three-way connections with threaded ends or claw couplings (rubber seal)

Connection	L	B	Material	Seal	Passage	Weight	Type No.
3 x R 3/4 f	68	68	mall. iron	-	24	1	255 DWS 34
3 x KAGO 34	120	120	mall. iron	Buna N	17	1	708 DWSG 34
3 x R 1 f	85	85	mall. iron	-	30	1	413 DWS 10
3 x KAGO 10	135	130	mall. iron	Buna N	21	1	905 DWSG 10



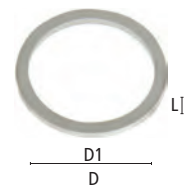
Original Rubber Rings for Standard Claw Couplings DIN 3489

Resistance	L	D	D1	Material	Temp°C	Media	Colour	Shore A	Weight	Type No.
Oil	11	34	20	Buna N	-40 – +95	compr. air	black	65°	100	6 GOER
Steam	10	33	20	TFEP	-40 – +200	steam	red	65°	10	6 GDOR
Chemicals	10.5	34	20	FKM	-40 – +200	chemical	green	50°	10	9 GVOR



Hard-PVC-Packings Rings for fast, easy and tight sealing of male threads

For male thread	L	D	D1	Weight	Type No.
G 1/8 m	1.5	10	13	0.13	HPD 18
G 1/4 m	2	13.3	16.4	0.13	HPD 14
G 3/8 m	2	16.7	21.5	0.13	HPD 38
G 1/2 m	2	21.5	26	0.13	HPD 12
G 3/4 m	2	26.5	31.4	0.13	HPD 34
G 1 m	2	33.5	40	0.13	HPD 10



Claw Couplings

MODY-Safety-Screwing Couplings DIN 3238



- Recommended instead of expensive and unhandy hosebreak secure systems (whip-check)
- High quality safety coupling, head of malleable iron with safety notches, hose stem of turned steel with special profile, zinc-plated and yellow passivated (free of chrome VI)
- Stronger thread - protective ring and new rubber ring, on both sides led in seal holder
- With oil resistant rubber ring, on request with steam resistant rubber ring (up to 200°C)
- 100 % tight, reduces expensive air consumption, 100 % couple test and sight control
- Easy to couple, secured against accidental opening: locking nut
- Maximum bore for more flow capacity
- **For absolutely safe air lines in construction and industry**

Materials

- Claw: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Locking nut, forged clamps: Brass MS 58 plain
- Connector: Steel zinc-plated and yellow passivated (free of Chrom VI)
- O-rings: Buna N

Max. Working Pressure	Temperature	Thread	Norm	Claw Distance	Media	
PN 16 bar	-40°C – +95°C	ISO 228	DIN 3238	42 mm	Compressed air	5

MODY-Safety-Hose Couplings

Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 10	100	63	41	6.5	309	SSG 10
Hose i.D. 13	100	63	41	10	309	SSG 13
Hose i.D. 15	100	63	41	11	316	SSG 15
Hose i.D. 19	100	63	41	15	319	SSG 19
Hose i.D. 25	100	63	41	18	346	SSG 25
Hose i.D. 32	135	63	48	18	464	SSG 32

For hose clamps DIN 20039 A type SL (☺ page 413) or crimping sockets type LPH (☺ page 418)

MODY-Safety-Hose Couplings with safety collar

Hose connection	L	B	L1	∅Collar	Passage	Weight	Type No.
Hose i.D. 10	103	63	41	21	6.5	323	SSG 10 S
Hose i.D. 13	110	63	41	24	10	321	SSG 13 S
Hose i.D. 15	112	63	41	27	11	343	SSG 15 S
Hose i.D. 19	112	63	40.5	32	15	350	SSG 19 S
Hose i.D. 25	112	63	40.5	39	18	386	SSG 25 S

For hose clamps DIN 20039 B type SK (☺ page 413)

MODY-Safety-Hose Couplings for crimping sockets (hydraulic crimping)

Hose connection	L	B	L1	∅Collar	Passage	Weight	Type No.
Hose i.D. 19	108	63	40	24	15	359	SSG 19 PH

Crimping with crimping socket PH-19 (☺ page 261)

Other sizes on request

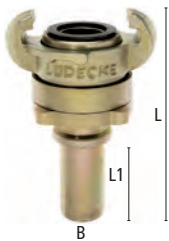
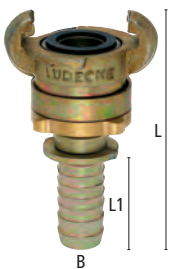
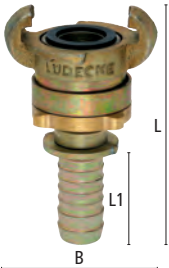
MODY-Safety-Hose Couplings for Aluminium forged clamps

Hose connection	L	B	L1	∅Collar	Passage	Weight	Type No.
Hose i.D. 19	110	63	35	26	15	340	SSG 19-KSA

For aluminium forged clamps VG 85 328 type KSA 30-33 (☺ page 338)

MODY-Safety-Hose Couplings with brass safety clamp for steam applications

Hose connection	L	B	L1	Passage	Dichtung	Weight	Type No.
Hose 19x7	113	63	52	15	TFEP (SDOR-N)	920	SSG 19 KSM
Hose 25x7.5	113	63	52	18	TFEP (SDOR-N)	1120	SSG 25 KSM

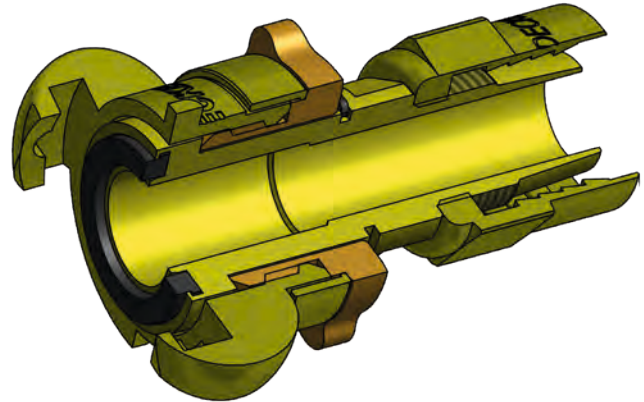


Claw Couplings

MODY-Safety-Screwing Couplings DIN 3238

Thread ferrule according to DIN EN 14 424 as the perfect hose connection for optimum security; at any time unlockable and reusable.

Please pay attention to the details for the essential hose wall thickness!

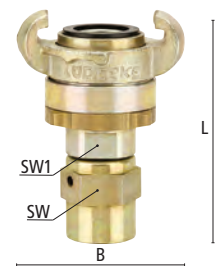


MODY-Safety-Hose Couplings with thread ferrule (according to DIN EN 14 424)

Hose connection	L	SW	B	SW1	Passage	Weight	Type No.
Hose 13x3	92	27	63	24	11	400	SSG 133 TQ
Hose 13x5	92	27	63	24	11	405	SSG 135 TQ
Hose 15x5	95	32	63	24	13	415	SSG 155 TQ
Hose 19x5	95	32	63	24	16	435	SSG 195 TQ
Hose 19x6	95	36	63	24	16	440	SSG 196 TQ
Hose 25x5	105	41	63	24	22	510	SSG 255 TQ
Hose 25x7	105	46	63	24	22	520	SSG 257 TQ

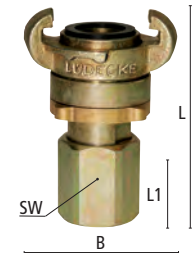
(Size 1" two parts screwed)

Assembly instructions for thread ferrules (© page 433)



MODY-Safety Female Couplings

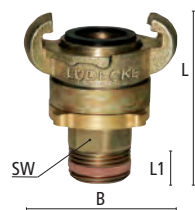
Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 3/8 f	68	24	63	13	13	347	SSGI 38
G 1/2 f	70	24	63	15	17	329	SSGI 12
G 3/4 f	93	32	63	20	17	419	SSGI 34
NEW! NPT 3/4 f	93	32	63	21.5	17	388	SSGI 34 NPT
G 1 f	95	41	63	22	17	516	SSGI 10
NEW! NPT 1 f	97	41	63	22	17	473	SSGI 10 NPT



MODY-Safety Male Couplings with LÜDSY-sealing system

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 3/8 m	72	24	63	13	10	260	SSGA 38
G 1/2 m	73	24	63	14	13	260	SSGA 12
G 3/4 m	73	24	63	15	17	260	SSGA 34
NEW! NPT 3/4 m	73	24	63	18	17	280	SSGA 34 NPT*
R 1 m	85	36	63	18	17	370	SSGA 10
NEW! NPT 1 m	83	36	63	19	17	365	SSGA 10 NPT*

*without LÜDSY-thread sealing



Original MODY-Rubber Rings – Standard Version

Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A	Weight	Type No.	
Oil	4	30	21	Buna N	-40 – +95	Compr.air	black	75°	50	1.7	SGOR-N
Steam	4	30	21	TFEP	-40 – +200	Steam	red	65°	10	1.7	SDOR-N



Original MODY-Rubber Rings – Old Version (Only suitable for MODY-Couplings with old seal holder!)

Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A	Weight	Type No.	
Oil	7	33	21	Buna N	-40 – +95	Compr. air	black	60°	50	4	SGOR



All Types also available coloured (powder-coated) against surcharge

RAL 5010
 RAL 6029
 RAL 1004
 RAL 2002

Ⓢ Attention: At least 100 pc/type necessary!



Claw Couplings

with Brass Seal

- Robust couplings of malleable iron, zinc-plated and yellow passivated (free of chrome VI)
- 100 % couple test and sight control
- With brass seal, oil-resistant hose ring and zinc-plated screw
- Easy to couple, no independent remove of the seal, prevents sticking of seals when coupled
- Always to be coupled with a standard claw coupling with Buna N seal!
- **Universal couplings for air lines in construction or industry, mainly used directly on compressor or air tool**

Materials

- Claw, Connector: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Screw: Steel zinc-plated and yellow passivated (free of chrome VI)
- O-rings: Brass

Max. Working Pressure	Temperature	Thread	Claw Distance	Media	
PN 10 bar	-40°C – +95°C	ISO 228	42 mm	Compressed air	10

Hose Claw Couplings with brass seal

Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 13	78	63	39	8.5	212	SKM 13*
Hose i.D. 15	88	63	39	11	226	SKM 15*
Hose i.D. 19	84	63	46	15	211	SKM 19
Hose i.D. 25	84	63	-	19	225	SKM 25

For hose clamps type SL DIN 20039 A (© page 413)

*two parts with thread stem of steel

Female Claw Couplings with brass seal

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 1/2 f	50	32	63	14	17	220	KIM 12
G 3/4 f	50	32	63	14.5	17	200	KIM 34
G 1 f	52	41	63	17	17	260	KIM 10

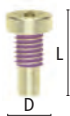
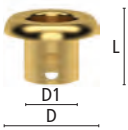
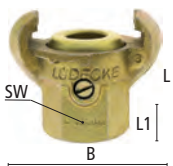
Male Claw Couplings with brass seal

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 1/2 m	55	27	63	14	11	193	KAM 12
G 3/4 m	51	32	63	14	17	206	KAM 34
G 1 m	48	40	63	15	17	213	KAM 10

Easy male thread sealing with PVC-Packing rings type HPD (© page 231)

Original spare parts for claw couplings with brass seal

Type	L	D	D1	Material		Weight	Type No.
Brass sleeve	21	32	17	Brass	10	12.5	MOOH
Hose ring	12	28	23	Buna N	100	3.2	SOOR
Steel screw M5	14	7	-	Steel zinc-pl. + yellow pass.	100	2	HOOS



Claw Couplings with Bore for Safety-Clips

- Robust couplings of malleable iron, zinc-plated and yellow passivated (free of chrome VI)
- 100 % couple-test and sight control
- With oil-resistant rubber ring GOER, on request with steam-resistant rubber ring GDOR (up to 200°C) against surcharge
- To be secured against accidental opening through safety-clips DIN 11024
- **Universal coupling, mainly used worldwide in mining or tunneling**

Materials

- Claw, connector: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- O-rings: Buna N

Max. Working Pressure	Temperature	Thread	Claw Distance	Media	
PN 10 bar	-40°C – +95°C	ISO 228, ANSI/ ASME B 1.20.1	42 mm	Compressed air	10

Hose Claw Couplings with safety collar

Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 13	74	63	40	8.5	167	SKSS 13
Hose i.D. 19	75	63	40	15	196	SKSS 19
Hose i.D. 25	75	63	40	19	222	SKSS 25

For hose clamps DIN 20039 B, type SK (☺ page 413), safe hose assembly

Female Claw Couplings

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 1/2 f	37	27	63	14	18.5	141	KISS 12
G 3/4 f	39	32	63	14.5	20	145	KISS 34
G 1 f	41	41	63	18	20	182	KISS 10
NPT 1 f	41	41	63	18	20	180	KISS 10 NPT


NEW!

Male Claw Couplings


Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 1/2 m	49	27	63	14	13	170	KASS 12
G 3/4 m	49	32	63	15	17	182	KASS 34
G 1 m	53	39	63	15.5	20	199	KASS 10

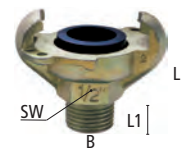
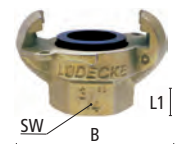
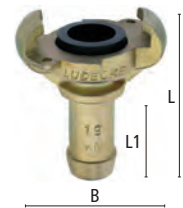
Easy male thread sealing with PVC-Packings rings type HPD (☺ page 231)

Original Rubber Rings

Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A		Weight	Type No.
Oil	11	34	20	Buna N	-40 – +95	Compr.air	black	65°	100	6	GOER
Steam	10	33	20	TFEP	-40 – +200	Steam	red	65°	10	6	GDOR

Universal Safety-Clips DIN 11024

L	B	D	Material		Weight	Type No.
27	63	3	Steel zinc-plated	50	10	USC-1



Claw Couplings

Left-Closing and Coloured



- Robust couplings of malleable iron or steel zinc-plated and yellow passivated (free of chrome VI) with safety notches and locking nut on female claw couplings left closing
- 100 % couple-test and sight control
- With oil-resistant rubber ring SGOR-N, on request with steam-resistant rubber ring SDOR-N (up to 200°C) or with brass seal and standard seal
- Through left-closing mechanism the couplings can't be connected with standard claw couplings (right-closing), additional warning through ears at the claws or colour
- **Mainly used in chemical and petrochemical plants to avoid connection of different fluids, f.e compressed air, steam, gas media, nitrogen**

Materials

- Claw: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Connector: Steel zinc-plated and yellow passivated (free of chrome VI)
- Locking nut: Brass MS 58 plain
- O-rings: Buna N/ Brass

Max. Working Pressure	Temperature	Thread	Claw Distance	Media	
PN 16 bar	-40°C – +95°C	ISO 228	42 mm	various	1

Hose Claw Couplings left-closing

Hose connection	L	B	L1	Passage	Typ	Version	Seal	Weight	Type No.
Hose i.D. 19	100	85	41	16	MODY	w safety collar	Buna N	340	SSGL 19
Hose i.D. 19	112	85	40.5	16	MODY	w safety collar	Buna N	367	SSGL 19 S
Hose i.D. 19	84	85	49	16	MS-seal	w/o safety collar	Brass	240	SKML 19

Other sizes on request.

For hose clamps DIN 20039 A or B (© page 413)

Female Claw Couplings left-closing

Thread connection	L	SW	B	L1	Passage	Typ	Seal	Weight	Type No.
G 3/4 f	38	40	85	16	20	Standard	Buna N	210	KIGL 34
G 3/4 f	93	32	85	20	19	MODY	Buna N	434	SSGIL 34
G 1 f	39	40	85	18	20	Standard	Buna N	180	KIGL 10

Other sizes on request.

Male Claw Couplings left-closing

Thread connection	L	SW	B	L1	Passage	Typ	Seal	Weight	Type No.
G 3/4 m	73	24	85	15	19	MODY	Buna N	339	SSGAL 34

Other sizes on request.

Original Standard-Rubber Rings

(© page 239)

Original MODY-Rubber Rings - Standard Version

(© page 233)

Original MODY-Rubber Rings - Old Version

(© page 233)

Original Spare Parts for Claw Couplings with Brass Seal

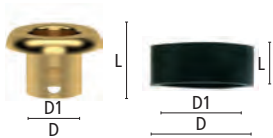
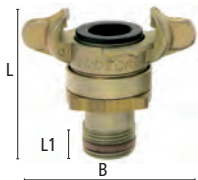
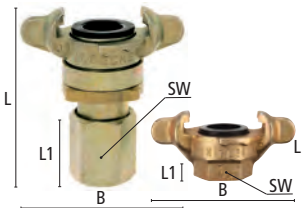
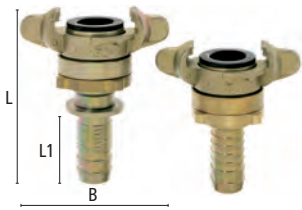
Type	L	D	D1	Material		Weight	Type No.
Brass sleeve	21	32	17	Brass	10	12.5	MOOH
Hose ring	12	28	23	Buna N	100	3.2	SOOR
Steel screw M5	14	7	-	Steel zinc-pl. + yellow pass.	100	2	HOOS

All types also available coloured (powder-coated) against surcharge!

RAL 5010
 RAL 6029
 RAL 1004
 RAL 2002
 ...others on request.

® At least 100 pc/type necessary!

C L A W C O U P L I N G S



Claw Couplings

of Forged Steel, Hardened. Compatible to Type „Atlas Copco“

- Extremely robust, durable coupling of forged steel, hardened, zinc-plated and yellow passivated (free of chrome VI), equivalent to type Atlas Copco
- With oil-resistant rubber ring GOER, on request with steam-resistant rubber ring GDOR (up to 200°C) against surcharge
- Maximum bore for maximum flow capacity to reach full tool performance
- Turned stem profile for perfect fit of the hose - Turned seal holder, therefore 100 % tight
- **High quality coupling for compressed air in construction and industry**

Materials

- Claw: Steel hardened, zinc-plated and yellow passivated (free of chrome VI)
- Connector: Steel hardened, zinc-plated and yellow passivated (free of chrome VI)
- Locking nut: Brass MS 58 plain
- O-rings: Buna N

Max. Working Pressure	Temperature	Thread	Claw Distance	Media	
PN 16 bar	-40°C – +95°C	ISO 228, ANSI/ASME B 1.20.1	42 mm	Compressed air	10

Hose Claw Couplings

Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 10	63	62	35	8	141	ACK 38 T
Hose i.D. 12.5	63	62	35	10.5	136	ACK 12 T
Hose i.D. 20	70	62	45	17	165	ACK 34 T
Hose i.D. 25	73	62	46	20	173	ACK 10 T

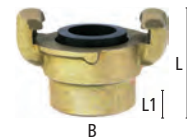
For hose clamps DIN 20039 A, type SL (© page 413)

Swivelling Version (against hose twist) on request.



Female Claw Couplings

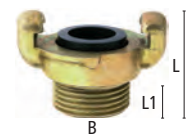
Thread connection	L	B	L1	Passage	Weight	Type No.
G 3/8 f	40	62	16	15	182	ACK 38 I
G 1/2 f	40	62	16	19	203	ACK 12 I
G 3/4 f	40	62	16	20	176	ACK 34 I
NEW! NPT 3/4 f	40	62	16	20	176	ACK 34 I-NPT
G 1 f	40	62	17	20	160	ACK 10 I
NEW! NPT 1 f	40	62	17	20	155	ACK 10 I-NPT



Male Claw Couplings

Thread connection	L	B	L1	Passage	Weight	Type No.
G 3/8 m	40	62	14	11	142	ACK 38 A
G 1/2 m	40	62	14	15	152	ACK 12 A
G 3/4 m	40	62	15	19	148	ACK 34 A
NEW! NPT 3/4 m	41	62	16	19	150	ACK 34 A-NPT
G 1 m	40	62	15	20	152	ACK 10 A

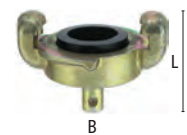
Easy male thread sealing with PVC-Packings rings type HPD (© page 231)




Plain Ends

Version	L	B	Weight	Type No.
without chain	40	62	140	ACKO
with chain	40	62	150	ACKM
chain (spare part)*			7	VKM-K*

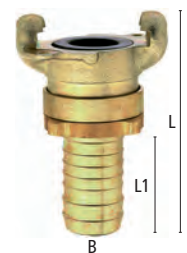
*made of steel (zinc-plated)



MODY-Safety-Hose Couplings with thread-protective ring and new sealing-ring, on both sides led in seal holder

Hose connection	L	B	L1	Passage		Weight	Type No.
Hose i.D. 12.5	92	62	41	10	5	321	ACS 13
Hose i.D. 20	92	62	41	17	5	331	ACS 19
Hose i.D. 25	92	62	41	19	5	356	ACS 25

For hose clamps DIN 20039 A, type SL (© page 413)



Original MODY-Rubber Rings – Standard and Old Version

(© page 233)

Claw Couplings

of Forged Brass MS 58

- "French System", interchangeable with all claw distance 42 mm types
- Universal couplings of forged brass MS 58
- With oil-resistant rubber ring MK 42 ER
- Turned seal holder, therefore 100 % tight
- According to NF E 29-573
- For compressed air and water in construction, agriculture and industry

Materials

- Claw, connector: Brass MS 58 plain
- O-rings: Buna N

Max. Working Pressure	Temperature	Thread	Claw Distance	Media	
PN 10 bar	-40°C – +95°C	ISO 228	42 mm	Compr. air, water	10

Hose Claw Couplings

Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 6	76	57	39.5	6	115	MKS 42-6
Hose i.D. 10	69	57	36.5	8	120	MKS 42-10
Hose i.D. 13	69	57	36.5	10	130	MKS 42-13
Hose i.D. 16	69	57	36.5	12	131	MKS 42-15
Hose i.D. 19	69	57	36.5	15	155	MKS 42-19
Hose i.D. 25	69	57	40	21	180	MKS 42-25

For hose clamps/clips type SL, type HS, ZOS, LPH (© page 413 - 415, 418)

Female Claw Couplings

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 1/4 f	38	17	57	13.5	8	93	MKI 42-14
G 3/8 f	33	21	57	10.5	12	97	MKI 42-38
G 1/2 f	33	26	57	11.5	15	101	MKI 42-12
G 3/4 f	36	32	57	14	21	119	MKI 42-34
G 1 f	38	39	57	15	21	124	MKI 42-10
G 1 1/4 f	43	47	57	15	21	166	MKI 42-54

Male Claw Couplings

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 1/4 m	43	17	57	10.5	7	104	MKA 42-14
G 3/8 m	45	21	57	11	10	102	MKA 42-38
G 1/2 m	42	24	57	10	14	112	MKA 42-12
G 3/4 m	43	30	57	11	19	135	MKA 42-34
G 1 m	43	34	57	11	21	140	MKA 42-10
G 1 1/4 m	46	44	57	13	21	193	MKA 42-54

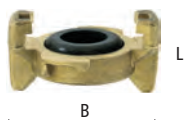
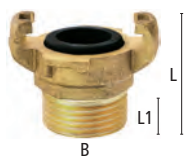
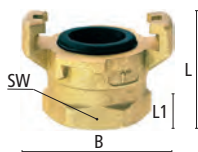
Easy male thread sealing with PVC-Packing rings type HPD (© page 231)

Plain Ends

Version	L	B	Weight	Type No.
without chain	29	57	93	MKO 42

Original Rubber Ring

Resistance	L	D	D1	Material	Temp. °C	Media	Colour	Shore A	Weight	Type No.
Oil	10	34.5	21	Buna N	-40 – +95	Air/Water	black	55°	10	5 MK 42 ER



Claw Couplings

US-Version with Bore for Safety-Clips

- Robust standard couplings and Mody-Safety-Couplings of malleable iron, US-Version, zinc-plated and yellow passivated (free of chrome VI)
- 100 % couple test and sight control
- With oil-resistant rubber ring GOOR
- To be secured against accidental opening through safety-clips DIN 11024
- **US-universal coupling, widely spread system for compressed air in construction and industry**

Materials

- Claw, connector: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- O-rings: Buna N

No coupling with claw distance of 42 mm

Max. Working Pressure	Temperature	Thread	Claw Distance	Media	
PN 10 bar	-40°C – +95°C	NPT/ ISO 228	41 mm	Air a.o.	10

US-Hose Claw Couplings with safety collar

Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 10	75	62	32	6	162	SKA 11*
Hose i.D. 13	88	62	42	9	182	SKA 13
Hose i.D. 19	105	62	56	14	244	SKA 19
Hose i.D. 25	107	62	59	20	286	SKA 25

For US-hose clamps (© page 414)

* SKA 11 two parts with thread stem of steel

US-Female Claw Couplings

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
NEW! G 3/8 f	57	27	62	13.5	15	180	KIA 38 BSP
NEW! NPT 3/8 f	57	27	62	13.5	15	187	KIA 38
NEW! G 1/2 f	57	27	62	13.5	18	173	KIA 12 BSP
NEW! NPT 1/2 f	57	27	62	13.5	18	181	KIA 12
NEW! G 3/4 f	57	36	62	15	20	195	KIA 34 BSP
NEW! NPT 3/4 f	57	36	62	15	20	201	KIA 34
NEW! G 1 f	57	42	62	15	20	208	KIA 10 BSP
NEW! NPT 1 f	57	42	62	15	20	218	KIA 10

US-Male Claw Couplings

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
NEW! G 3/8 m	56	29	62	14	9	200	KAA 38 BSP
NEW! NPT 3/8 m	64	29	62	15	9	180	KAA 38
NEW! G 1/2 m	56	29	62	14	12	210	KAA 12 BSP
NEW! NPT 1/2 m	64	29	62	20	12	190	KAA 12
NEW! G 3/4 m	64	34	62	16	17	225	KAA 34 BSP
NEW! NPT 3/4 m	70	34	62	20	17	224	KAA 34
NEW! G 1 m	68	38	62	18	20	250	KAA 10 BSP
NEW! NPT 1 m	72	38	62	23	20	260	KAA 10

US-Plain End

Version	L	B	Weight	Type No.
without chain	55	62	215	UDM

Original Rubber Ring

Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A	Weight	Type No.	
Oil	10.5	34	20	Buna N	-40 / +95	Compr.Air	black	50 °	100	6	GOOR

Universal Safety Clips DIN 11024

L	B	D	Material	Weight	Type No.
27	63	3	Steel zinc-plated	10	USC-1



Claw Couplings

US-Version MODY-Safety-Screwing Couplings with Bore for Safety-Clips,



No coupling with claw distance of 42 mm

- Recommended instead of expensive and unhandy hosebreak secure systems (whip-check)
- High quality safety coupling, hose stem with special profile
- Stronger thread - protective ring and new rubber ring, on both sides led in seal holder
- With oil resistant rubber ring, on request with steam resistant rubber ring (up to 200°C),
- 100 % tight, reduces expensive air consumption: 100% couple test and sight control
- Easy to couple, secured against accidental opening, locking nut and safety clips according to DIN 11024
- Maximum bore for maximum flow capacity
- **For absolutely safe air lines in construction and industry**

Materials

- Claw: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Connector: Steel zinc-plated and yellow passivated (free of chrome VI)
- Locking nut: Brass MS 58 plain
- O-rings: Buna N

Max. Working Pressure	Temperature	Thread	Claw Distance	Media	
PN 16 bar	-40°C – +95°C	NPT/ISO 228	41 mm	Compressed air	5



US-MODY-Safety-Hose Couplings with safety collar

Hose connection	L	B	L1	∅ Collar	Passage	Weight	Type No.
Hose i.D. 10	111	62	41	21	6.5	320	SSC 10
Hose i.D. 13	118	62	41	24	10	360	SSC 13
Hose i.D. 19	120	62	40.5	34	15	385	SSC 19
Hose i.D. 25	120	62	40.5	39	18	420	SSC 25

For US-hose clamps (j page 414)

US-MODY-Safety Female Couplings

Thread connection	L	B	L1	Passage	Weight	Type No.
G 3/8 f	64	62	13	13	250	SSCI 38
NEW! NPT 3/8 f	64	62	13	13	252	SSCI 38 NPT
G 1/2 f	65	62	15	17	280	SSCI 12
NEW! NPT 1/2 f	65	62	15	17	290	SSCI 12 NPT
G 3/4 f	92	62	20	17	420	SSCI 34
NEW! NPT 3/4 f	92	62	20	17	420	SSCI 34 NPT

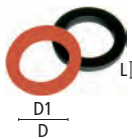
US-MODY-Safety Male Couplings

Thread connection	L	B	L1	Passage	Weight	Type No.
G 3/8 m	72	62	13	10	260	SSCA 38*
NEW! NPT 3/8 m	72	62	13	10	270	SSCA 38 NPT
G 1/2 m	74	62	14	13	260	SSCA 12*
NEW! NPT 1/2 m	74	62	14	13	270	SSCA 12 NPT
G 3/4 m	75	62	15	17	270	SSCA 34*
NEW! NPT 3/4 m	75	62	15	17	280	SSCA 34 NPT

*with LÜDSY- Thread sealing

Original MODY-Rubber Rings – Standard Version

Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A	∅	Weight	Type No.
Oil	4	30	21	Buna N	-40 – +95	Compr.air	black	75°	50	1.7	SGOR-N
Steam	4	30	21	TFEP	-40 – +200	Steam	red	65°	10	1.7	SDOR-N







Complete Screwing Sets, FlatLock Flat Hose Screwings, Connecting Nipples, Hose Connections A Strong Connection

Complete Screwing Sets



Complete Screwing Sets are extremely robust fittings for construction, tunneling and mining. Easy to use: A tapered stem with connecting nut is screwed with a nipple with cone. Taper and cone are sealing against each other without sealing material. Flat sealed versions should not be combined with tapered versions, to be combined with "Atlas Copco" system.

FlatLock Flat Hose Screwings



While using the FlatLock crimping system, we guarantee you the best possible option to assemble a flat hose to the FlatLock fitting. FlatLock offers best and easy hose assembly for thin walled flat hoses, which can be repeatedly used.

This extremely safe and reliable hose connection is available for the following coupling systems:

- Mody-Safety-Claw Couplings DIN 3238
- Female and male thread screwings
- Complete Screwing Sets DIN 20 033

Thread stems and hose connections



Thread stems and hose connections serve in various fields for connection or lengthening of hose lines.

Complete Screwing Sets

DIN 8537/20 033 with Hose Stem

- Complete Screwing Sets of steel / malleable iron, zinc-plated and yellow passivated (free of chrome VI) consisting of connecting nut and tapered stem
- Complete Screwing Sets with safety collar and turned stem profile for perfect fit of the hose
- Tapered stems with cone 1:3 generally with additional O-ring sealing
- Suitable for connecting nipples (☺ page 250/ 251)
- World-wide used system for compressed air, water, etc. in construction, mining or tunneling.

Materials

- Tapered stem: Steel or malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Connecting nut: : Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- O-rings: Buna N

Max. Working Pressure	Temperature	Thread	Norm	Media
PN 16 / 25 bar	- 40°C – + 95°C	ISO 228 / DIN 405	DIN 8537 / 20 033	Compr.air/Water

Complete Screwing Sets with safety collar

Hose connect.	Thread connect.	L	B	Cone	∅ Collar	Passage	∅	Weight	Type No.
Hose i.D. 13	G 3/4 f	79	58	1:4	21	10	10	166	34/13 S
Hose i.D. 15	G 3/4 f	79	58	1:4	26	12	10	175	34/15 S
Hose i.D. 19	G 3/4 f	80	58	1:4	33	13	10	200	34/19 S
Hose i.D. 19	G 1 f	85	65	1:3	33	15	10	244	10/19 S
Hose i.D. 25	G 1 f	90	65	1:3	38	16	10	290	10/25 S
Hose i.D. 13	Rd 32x1/8 f	83	65	1:3	22	10	10	249	32/13 S
Hose i.D. 15	Rd 32x1/8 f	85	65	1:3	26	12	10	229	32/15 S
Hose i.D. 19	Rd 32x1/8 f	85	65	1:3	33	15	10	251	32/19 S
Hose i.D. 25	Rd 32x1/8 f	90	65	1:3	38	16	10	310	32/25 S
Hose i.D. 25	Rd 38x1/8 f	98	76	1:3	38	19	5	426	38/25 S
Hose i.D. 32	Rd 46x1/6 f	124	86	1:3	50	25	1	685	46/32 S
Hose i.D. 35	Rd 55x1/6 f	131	95	1:3	55	30	1	829	55/35 S
Hose i.D. 38	Rd 55x1/6 f	131	95	1:3	55	31	1	864	55/38 S
Hose i.D. 42	Rd 62x1/6 f	139	105	1:3	63	35	1	1216	62/42 S
Hose i.D. 38	Rd 75x1/6 f	140	137	1:3	55	31	1	1420	75/38 S
Hose i.D. 50	Rd 75x1/6 f	149	137	1:3	77	45	1	1725	75/50 S
Hose i.D. 53	Rd 75x1/6 f	149	137	1:3	77	45	1	1848	75/53 S
Hose i.D. 75	Rd 105x1/4 f	206	158	1:3	110	67	1	3974	105/75 S



For hose clamps DIN 20039 B, type SK (☺ page 413)

For higher temperatures we recommend steam screwings DIN EN 14 423 (☺ page 334)

FlatLock Flat Hose Screwings (☺ page 248)

We produce flat hose fittings according to hose samples/dimensions with assembly recommendation for hydraulic crimping with crimping ferrules, safety clamps, wire or steel band. Various types on stock!




Connecting Nuts and Tapered Stems

DIN 8537/20 033

- Screwings with cone of steel / malleable iron, zinc-plated and yellow passivated (free of chrome VI), consisting of connecting nut and tapered stem without safety collar
- Turned stem profile for perfect fit of the hose
- Tapered stems with cone 1:3 generally with additional O-ring sealing
- Suitable for connecting nipples (☺ Page 250/ 251)
- World-wide used system for compressed air, water, etc. in construction, mining or tunneling.

Max. Working Pressure	Temperature	Media
PN 16 / 25 bar	- 40°C – + 95°C	Compr.air / Water

Connecting Nuts of malleable iron corresponding to →


Thread connection	L	B	Passage		Weight	Type No.
G 3/4 f	23	58	21.5	10	92	UM 34
G 1 f	28	65	23	10	133	UM 10
Rd 32x1/8 f	28	65	23	10	139	UM 32
Rd 32x1/8 f	28	65	27.5	10	129	UM 32/2
G1 f	28	65	27.5	10	124	UM 10/2
Rd 38x1/8 f	33	76	29	10	234	UM 38
Rd 46x1/6 f	36	86	35	1	301	UM 46
Rd 55x1/6 f	38	95	43	1	378	UM 55
Rd 62x1/6 f	44	105	49	1	555	UM 62
Rd 75x1/6 f	50	137	61	1	797	UM 75
Rd 105x1/4 f	60	158	89	1	1545	UM 105



Materials

- Connecting nut: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Tapered stem: Steel zinc-plated and yellow passivated (free of chrome VI)
- O-ring: Buna N

Tapered stems of steel

Hose connection	L	B	Cone		Weight	Type No.
Hose i.D. 13	79	24	1:4	10	74	T 13 B
Hose i.D. 15	79	24	1:4	10	72	T 15 B
Hose i.D. 19	80	24	1:4	10	94	T 19 B

Hose i.D. 13	80	28	1:3	10	104	ST 13 B
Hose i.D. 15	80	28	1:3	10	83	ST 15 B
Hose i.D. 19	80	28	1:3	10	100	ST 19 B
Hose i.D. 19	80	28	1:3	10	105	ST 19 B-PH*

Hose i.D. 13	80	28	1:3	10	104	ST 13 B
Hose i.D. 15	80	28	1:3	10	83	ST 15 B
Hose i.D. 19	80	28	1:3	10	100	ST 19 B
Hose i.D. 19	80	28	1:3	10	109	ST 19 B-PH*

Hose i.D. 25	85	29	1:3	10	163	ST 25 B/3
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Hose i.D. 25	85	30	1:3	10	148	ST 25 B/2
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Hose i.D. 25	90	33	1:3	10	164	ST 25 B
Hose i.D. 25	88.5	33	1:3	10	200	ST 25 B-PH*

Hose i.D. 32	120	40	1:3	1	355	ST 32 B
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Hose i.D. 38	125	48	1:3	1	465	ST 38 B
Hose i.D. 38	110	48	1:3	1	420	ST 38 B-PH*

Hose i.D. 42	130	57	1:3	1	558	ST 42 B
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Hose i.D. 50	140	68	1:3	1	896	ST 50 B
Hose i.D. 53	140	68	1:3	1	947	ST 53 B

Hose i.D. 75	189	98	1:3	1	1990	ST 75 B
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For hose clamps DIN 20039 A, type SL (© page 413)

*for hydraulic crimping with socket (© page 261)

other types also available on request!



Complete Screwing Sets

DIN 20 033 with Male Thread

- Screwings with cone made of steel/malleable iron, zinc-plated and yellow passivated (free of chrome VI), consisting of connecting nut and tapered nipple
- Complete Screwing Set for the direct connection of thread to machine/tool
- Tapered nipple with cone 1:3 generally with additional O-ring sealing
- **World-wide used system for compressed air in construction, mining and tunnelling**

Materials

- Tapered stem: Steel zinc-plated and yellow passivated (free of chrome VI)
- Connecting nut: Malleable iron zinc-plated and yellow passivated
- O-rings: Buna N

Max. Working Pressure	Temperature	Thread	Norm	Cone	Media	
PN 16 / 25 bar	- 40°C – + 95°C	ISO 228 / DIN 405	DIN 20 033	1:3	Compressed Air	1

Complete Screwing Sets with male thread

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 1 1/4 m - RD 55x1/6 f	87	50	95	20	32	890	55/54 A
G 2 m - RD 75x1/6 f	115	65	137	30	45	1850	75/20 A

Other dimensions on request.

Screw Caps for Complete Screwing Sets DIN 20 033

Thread connection	L	SW		Weight	Type No.
Rd 75 x 1/6 f	75	75	5	1009	VS 75

With hexagon to facilitate the assembly.

Other dimensions on request.

Male thread stems with cone

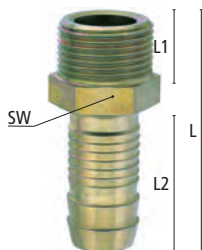
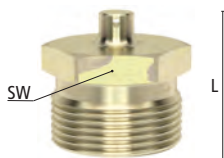
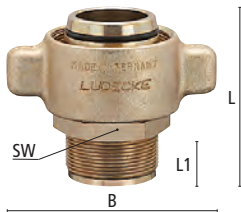
Hose connect.	Thread connect.	L	SW	L1	L2	Passage		Weight	Type No.
Hose i.D. 25	Rd 38x1/8 m	75	41	23	41	20	10	210	G 38-25 T
Hose i.D. 38	Rd 55x1/6 m	95	55	32	50	33	1	800	G 55-38 T*
Hose i.D. 50	Rd 75x1/6 m	117	75	40	65	45	1	1120	G 75-50 T*
Hose i.D. 53	Rd 75x1/6 m	117	75	40	65	47	1	1140	G 75-53 T*

*with safety collar

Suitable for Complete Screwing Sets.

For hose clamps DIN 20039 A, type SL (© page 413)

Further dimensions on request.



Complete Screwing Sets

Flat Sealing. Compatible to Type "Atlas Copco"

- Screwings made of steel/malleable iron, zinc-plated and yellow passivated (free of chrome VI)
- Consisting of connecting nut and flat sealing hose stem with O-ring
- Complete Screwing Sets with turned stem profile for perfect fit of the hose
- Further hose assembly methods, for example with crimping ferrules or safety clamps, and also other dimensions on request
- Popular screwing system for compressed air in mining and tunnelling
- Interchangeable with Screwing System type "Atlas Copco"

Materials

- Hose stem: Steel zinc-plated and yellow passivated (free of chrome VI)
- Connecting nut: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- O-rings: Buna N

Max. Working Pressure	Temperature	Media	Thread	
PN 16 / 25 bar	- 40°C – + 95°C	Compressed air, Water	DIN 405	1

Complete Screwing Sets flat sealing

Hose connection	Thread connection	L	B	Passage	Weight	Type No.
Hose i.D. 50	RD 65x1/6 f	166	105	45	1300	65/50 FL
Hose i.D. 53	RD 65x1/6 f	166	105	47	1320	65/53 FL

For hose clamps DIN 20 039 A, type SL (☺ page 413)

Single Connecting Nuts

Thread connection	L	B	Passage	Weight	Type No.
Rd 65 x 1/6 f	36	105	56.5	555	UM 65

Single Hose stems, flat sealing

Hose connection	L	Passage	Weight	Type No.
Hose i.D. 50	166	45	745	FT 50 L
Hose i.D. 53	166	48	765	FT 53 L

For hose clamps DIN 20 039 A, type SL (☺ page 413)

Rubber rings for flat sealing hose stems

Resistance	L	D	Material	Temp. °C	Media	Shore A	Weight	Type No.
Oil	3	55	Buna N	-40°C - +95°C	Compressed air	65 °	2	ED 50 L



Double Nipples Flat Sealing

- Nipples made of steel, zinc-plated and yellow passivated (free of chrome VI)
- Suitable for flat sealing Complete Screwings (☺ above)
- For the direct connection of fitting to machine/tool for compressed air in mining and tunnelling

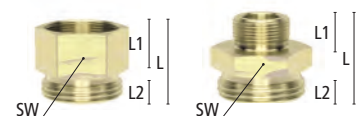
Materials

- Double Nipples: Steel zinc-plated and yellow passivated (free of chrome VI)

Max. Working Pressure	Temperature	Thread	Media	
PN 25 bar	- 40°C – + 95°C	ISO 228 / DIN 405	Compressed air	1

Double nipples, flat sealing, with male/ male thread or rather male/ female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1 1/4 m - RD 65x1/6 m	58	65	22	20	665	N 6554 A
G 1 1/2 m - RD 65x1/6 m	58	65	22	20	675	N 6515 A
G 2 m - RD 65x1/6 m	58	65	22	20	680	N 6520 A
G 2 f - RD 65x1/6 m	55	65	25	20	650	N 6520 I
RD 75 x 1/6 m - RD 65x1/6 m	77	75	41	20	1192	N 6575 A



Flat Hose Screwings

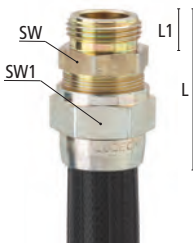


- MODY-Safety-Screwing-Couplings, thread and complete screwing with squeeze ring and thread ferrule for an absolutely safe connection of flat hoses for compressed air 3/4 to 1 1/2 inch
- The exact version (size of squeeze ring) always has to be adapted for the used flat hose
- Please indicate exact dimensions or samples of the hose before ordering
- Usable for compressed air applications in construction, mining and tunneling

Materials

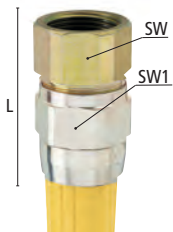
- Claw, Connecting nut: Malleable iron zinc-plated und yellow passivated (free of Chrome-VI)
- Connector, Squeeze ring, squeeze nut: Steel zinc-plated und yellow passivated (free of Chrome-VI)
- Locking nut: Brass MS 58 plain
- Seals: Buna N

Max. Working Pressure	Temperature	Thread	Norm	Media
PN 16/25 bar	-40°C – +100°C	ISO 228/DIN 405	DIN 3238/20033	Air a.o.



FlatLock Squeeze Ring Screwing with male thread connection

Hose connect.	Thread connect.	L	SW	L1	SW1	Passage	⊗	Weight	Type No.
Hose i.D. 19	G 3/4 m	65	32	13	32	17	5	205	G 34-19...FLTQ
Hose i.D. 25	G 1 m	65	36	14	41	22	5	290	G 10-25...FLTQ



FlatLock Squeeze Ring Screwing with female thread connection

Hose connect.	Thread connect.	L	SW	SW1	Passage	⊗	Weight	Type No.
Hose i.D. 19	G 3/4 i	60	32	32	17	5	195	GI 34-19...FLTQ
Hose i.D. 25	G 1 i	61	36	41	22	5	265	GI 10-25...FLTQ



FlatLock Squeeze Ring Screwing with MODY-safety claw coupling DIN 3238

Hose connection	L	SW	B	Passage	⊗	Weight	Type No.
Hose i.D. 19	118	32	63	17	5	550	SSG 19...FLTQ
Hose i.D. 25	129	41	63	17	5	630	SSG 25...FLTQ

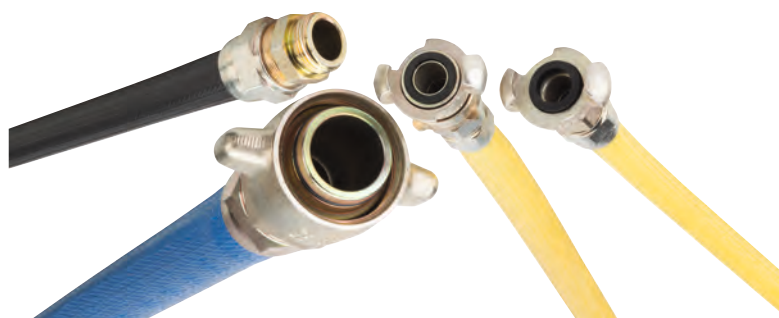


FlatLock Squeeze Ring Screwing with complete screwing Set DIN 20033

Hose connect.	Thread connect.	L	SW	B	Cone	Passage	⊗	Weight	Type No.
Hose i.D. 38	RD 55x1/6 f	150	55	95	1:3	31	1	1500	55/38...FLTQ

Adaptable with conical nipples (☺page 250 / 251)

Further fittings and hose dimensions on request.



This hose connection is available for the following coupling systems:

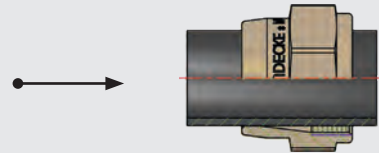
- Mody-Safety-Claw Couplings DIN 3238
- Female und male thread Screwings
- Complete Screwing Sets DIN 20 033

Attention:

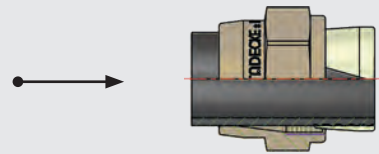
Before use, the inner diameter as well as the wall thickness of the flat hose always have to be adapted in order to guarantee the exact and safe fit of the connection. A size table is available on demand.

Hose connection manual:

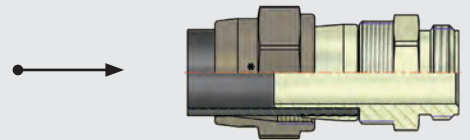
Move the squeeze nut approximately 10 cm over the hose. The phase with the **LUDECKE** logo must be ahead.



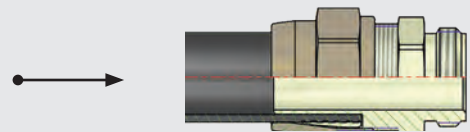
Also move the slotted squeeze ring with the cone ahead over the hose which must be cut to straight length. Make sure that the edge of the ring (labelled with the corresponding hose dimension) is flush with the hose's end.



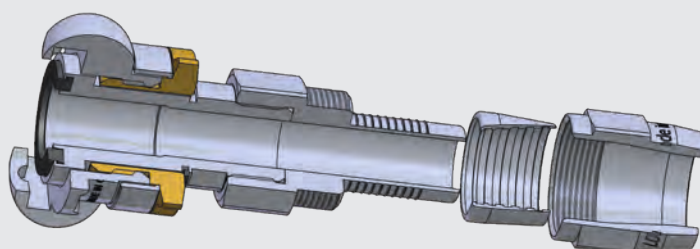
Push the fitting with the stem ahead into the hose until the connection thread matches the hose and squeeze ring end. The correct hose fit can be controlled at the squeeze ring slot.



Pull the squeeze nut over the squeeze ring and the hose stem, then screw the squeeze nut manually two turns into the threaded joint.



Afterwards secure the squeeze nut in a vice and screw the threaded joint with a spanner. The squeeze ring fixes the hose automatically due to the conical fit between squeeze nut and hose stem.



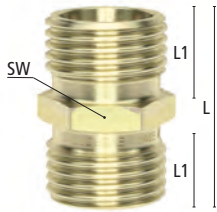
The FlatLock hose fittings are easy to assemble and offer a maximum of safety and ergonomics for the connection of thin-walled flat hoses and is unlockable and reusable at any time.

Connecting Nipples

- Nipples of steel or malleable iron, zinc-plated and yellow passivated (free of chrome VI)
- Suitable for screwings (☉ page 246 - 248) DIN 8537/20033
- **Worldwide used system for compressed air, water etc. in construction, mining and tunneling**

Materials:

- Connecting nipples: Steel or malleable iron zinc-plated and yellow passivated (free of chrome VI)



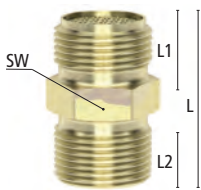
Max. Working Pressure	Thread	Media
PN 25 bar	ISO 228 / DIN 405	Compressed air / water

Double Nipples DIN 8537/20036

Thread connection	L	SW	L1	Cone	☉	Weight	Type No.
2 x G 3/4 m	47	27	19	2 x 1:4	10	107	V 34 N
2 x G 3/4 m	47	32	19	2 x 1:4	10	125	V 34-32 N
2 x G 1 m	55	36	23	2 x 1:3	10	197	V 10 N
2 x Rd 32x1/8 m	55	32	23	2 x 1:3	10	163	V 32 N
2 x Rd 38x1/8 m	62	41	26	2 x 1:3	10	283	V 38 N
2 x Rd 46x1/6 m	70	46	30	2 x 1:3	1	410	V 46 N
2 x Rd 55x1/6 m	78	55	32	2 x 1:3	1	648	V 55 N
2 x Rd 62x1/6 m	88	65	36	2 x 1:3	1	869	V 62 N
2 x Rd 75x1/6 m	100	75	41	2 x 1:3	1	1490	V 75 N
2 x Rd 105x1/6 m	122	105	51	2 x 1:3	1	2990	V 105 N

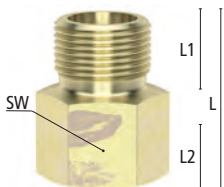
Sieve Nipples DIN 20037

Thread connection	L	SW	L1	L2	Cone	Sieve	☉	Weight	Type No.
G 3/8 m - G 3/4 m	38	27	10	19	1:4	inner	10	84	N 38 IS
G 1/2 m - G 3/4 m	40	27	12.5	19	1:4	inner	10	85	N 23 IS
G 1/2 m - Rd 32x1/8 m	44	32	12.5	23	1:3	inner	10	126	N 82 IS
G 3/4 m - G 3/4 m	44	27	16	19	1:4	inner	10	104	N 34 IS
G 3/4 m - G 3/4 m	44	32	16	19	1:4	inner	10	120	N 34-32 IS
G 3/4 m - Rd 32x1/8 m	48	32	16	23	1:3	inner	10	135	N 32 IS
G 3/4 m - G 1 m	48	36	16	22	1:3	inner	10	173	N 341 IS
G 3/4 m - G 3/4 m	44	27	16	23	1:4	outer	10	100	N 34 AS
G 3/4 m - G 3/4 m	44	32	16.5	19	1:4	outer	10	120	N 34-32 AS
G 3/4 m - Rd 32x1/8 m	48	32	16.5	19	1:3	outer	10	130	N 32 AS
G 3/4 m - Rd 32x1/8 m	48	32	16.5	23	1:3	without	10	142	N 32 OS
G 1 m - Rd 32x1/8 m	49	36	16	22	1:3	inner	10	193	N 132 IS
G 1 m - Rd 34x1/8 m	54	41	18	26	1:3	without	10	252	N 18 OS
G 1 m - Rd 46x1/6 m	58	46	18	30	1:3	without	1	345	N 46-10 OS
G 1/4 m - Rd 46x1/6 m	58	46	18	30	1:3	without	1	331	N 46-54 OS
G 1 1/2 m - Rd 46x1/6 m	63	50	23	30	1:3	without	1	445	N 46 OS
G 1 1/4 m - Rd 55x1/6 m	63	55	18	32	1:3	without	1	536	N 55-54 OS
G 1 1/2 m - Rd 55x1/6 m	68	55	23	32	1:3	without	1	529	N 55 OS
G 2 m - Rd 55x1/6 m	70	65	25	32	1:3	without	1	860	N 55-20 OS
G 1 1/2 m - Rd 62x1/6 m	75	65	23	36	1:3	without	1	764	N 62 OS
G 2 m - Rd 62x1/6 m	75	65	25	36	1:3	without	1	820	N 62-20 OS
G 1 1/2 m - Rd 75x1/6 m	80	75	23	41	1:3	without	1	1220	N 75-15 OS
G 2 m - Rd 75x1/6 m	85	75	28	41	1:3	without	1	1196	N 75 OS
G 2 1/2 m - Rd 75x1/6 m	85	75	28	41	1:3	without	1	1387	N 75-25 OS
G 3 m - Rd 105x1/4 m	100	105	29	51	1:3	without	1	2290	N 105 OS




Connecting Nipples

Thread connection	L	SW	L1	L2	Cone	☉	Weight	Type No.
G 3/4 f - G 3/4 m	44	32	19	19	1:4	10	126	A 34 N
G 3/4 f - G 1 m	48	36	23	19	1:3	10	200	A 3410 N
G 3/4 f - Rd 32x1/8 m	47	32	21.5	19	1:3	10	136	A 32 N
G 3/4 f - Rd 38x1/8 m	48	41	25	19	1:3	10	270	A 38 N
G 1 f - Rd 32x1/8 m	50	41	23	22	1:3	10	206	A 1032 N
G 1 f - Rd 38x1/8 m	52	41	25	22	1:3	10	239	A 10 N




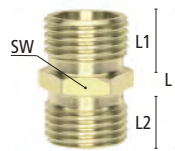
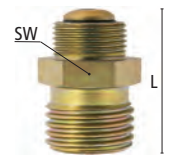
Connecting Nipples

Self-locking Nipple with brass valve

Thread connection	L	SW	Cone		Weight	Type No.
G 3/4 m - Rd 32x1/8 m	49	32	1:3	10	153	SN 32 ST

Combination Nipple

Thread connection	L	SW	L1	L2	Cone		Weight	Type No.
G 1 m - G 3/4 m	51	36	23	19	1:4	10	179	V 1034 N



Hot Tar Screwing

- Hot tar screwing of steel/malleable iron, zinc-plated and yellow passivated (free of chrome VI)
- Easy to screw through wing nut; tapered Stem with safety collar
- [For hose connection on hot tar spraying devices, hot tar lances a.o.](#)

Materials:

- Tapered stem: Steel zinc-plated and yellow passivated (free of chrome VI)
- Wing nut: malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Nipple: Steel zinc-plated and yellow passivated (free of chrome VI)

Max. Working Pressure	Thread	Media	
PN 25 bar	ISO 228	hot tar	1

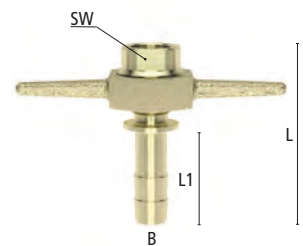
Hot Tar Screwing

Type	Connection	L	B	SW	L1	Passage	Weight	Type No.
Hot tar screwing complete	Hose i.D. 3/4 x G 3/4 f	112	165	32	60	15	506	HTV-SB*
Tapered stem	Hose i.D. 3/4, Cone 1:3					15	200	HTVT-SB*
Wing nut	G 1 1/4 f					-	207	HTVM
Nipple	G 3/4 f x G 1 1/4 m, Cone 1:3					-	99	HTVET

For hose clamps DIN 20039 B, type SK 34 (© page 413)

Other sizes on request.

*with safety collar

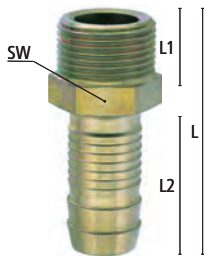


Thread Stems

- Thread stems of steel, zinc-plated and yellow passivated (free of chrome VI)
- Turned stem profile for perfect fit of the hose
- Maximum bore for maximum flow capacity
- Suitable for compressed air and other fluids in construction, industry or plant engineering

Materials

- Thread stem: Steel zinc-plated and yellow passivated (free of chrome VI)



Max. Working Pressure	Thread	Media
PN 16 / 25 bar	ISO 228 / DIN 405	Compressed air

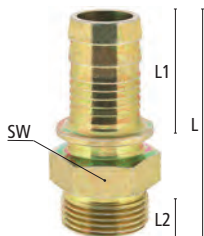
Male thread stems without safety collar*

Hose connect.	Thread connect.	L	SW	L1	L2	Passage	⊘	Weight	Type No.
Hose i.D. 9	G 1/4 m	44	14	9	28	6	10	22	G 14-9 T
Hose i.D. 10	G 3/8 m	45	19	10	28	7	10	31	G 38-10 T
Hose i.D. 13	G 1/4 m	44	17	9	28	8.5	10	35	G 14-13 T
Hose i.D. 13	G 3/8 m	45	19	10	28	10	10	35	G 38-13 T
Hose i.D. 13	G 1/2 m	65	22	15	41	10	10	60	G 12-13 T
Hose i.D. 13	G 3/4 m	65	27	16	41	10	10	85	G 34-13 T
Hose i.D. 15	G 3/8 m	48	22	10	41	10	10	45	G 38-15 T
Hose i.D. 15	G 1/2 m	65	22	15	41	12	10	62	G 12-15 T
Hose i.D. 15	G 3/4 m	65	27	16	41	12	10	92	G 34-15 T
Hose i.D. 19	G 1/2 m	65	22	15	41	14	10	82	G 12-19 T
Hose i.D. 19	G 3/4 m	65	27	16	41	15	10	99	G 34-19 T
Hose i.D. 25	G 3/4 m	65	27	16	39	19	10	118	G 34-25 T

*PN 16 bar

For hose clamps DIN 20039 A, type SL (☹ page 413)

Male thread stems with safety collar**



Hose connect.	Thread connect	L	SW	L1	L2	⊘Safety collar	Passage	⊘	Weight	Type No.
Hose i.D. 13	G 1/2 m	73	22	40	15	22	10	10	75	G 12-13 TB
Hose i.D. 19	G 3/4 m	72	32	40	15	32	15	10	142	G 34-19 TB
Hose i.D. 19	G 1 m	74	36	40	17	32	15	10	175	G 10-19 T
Hose i.D. 25	G 1 m	80	36	41	17	36	20	10	220	G 10-25 T
Hose i.D. 25	G 1 1/4 m	90	46	48	18	39	20	5	321	G 54-25 T
Hose i.D. 32	G 1 1/4 m	92	46	48	20	45	25	5	406	G 54-32 T
Hose i.D. 38	G 1 1/2 m	100	55	51	22	53	33	1	532	G 15-38 T
Hose i.D. 42	G 1 1/2 m	100	55	51	22	54	35	1	571	G 15-42 T
Hose i.D. 50	G 2 m	125	65	72	25	64	42	1	943	G 20-50 T
Hose i.D. 53	G 2 m	125	75	72	25	74	44	1	1123	G 20-53 T
Hose i.D. 75	G 3 m	185	90	120	30	95	68	1	2033	G 30-75 T

**PN 25 bar

For hose clamps DIN 20039 B, type SK (☹ page 413)

Female thread stems with safety collar**



Hose connect.	Thread connect.	L	SW	L1	L2	⊘Safety collar	Passage	⊘	Weight	Type No.
Hose i.D. 19	G 3/4 f	71	32	19	40	32	15	10	134	G 34-19 TI
Hose i.D. 19	G 1 f	73	41	20	40	32	15	10	197	G 10-19 TI
Hose i.D. 25	G 1 f	75	41	20	41	36	20	10	227	G 10-25 TI
Hose i.D. 25	G 1 1/4 f	80	50	23	41	36	20	5	323	G 54-25 TI
Hose i.D. 32	G 1 1/4 f	86	50	23	48	45	25	5	390	G 54-32 TI

**PN 25 bar

For hose clamps DIN 20039 B, type SK (☹ page 413)

Hose Connections and Thread Ferrule Screwings

- Hose connections of steel, zinc-plated and yellow passivated (free of chrome VI)
- Simple and safe hose connection with turned stem profile
- Male thread nipples with thread ferrule reusable!
- Maximum bore for maximum flow capacity
- Suitable for compressed air and other fluids in various fields

Materials:

- Connection, screwing: Steel zinc-plated and yellow passivated (free of chrome VI)

Max. Working Pressure	Media
PN 16 / 25 bar	Compressed air a.o.

Hose Connections DIN 20038 without safety collar*

Hose connection	L	D	Passage	⊠	Weight	Type No.
Hose i.D. 10	75	11	8	10	25	SV 10 R
Hose i.D. 13	80	13.5	9	10	44	SV 13 R
Hose i.D. 15	105	17	12.5	10	73	SV 15 R
Hose i.D. 19	105	21	16	10	93	SV 19 R
Hose i.D. 25	160	26.5	22	10	166	SV 25 R
Hose i.D. 32	175	33.5	27	5	351	SV 32 R
Hose i.D. 38	215	40	33	5	430	SV 38 R
Hose i.D. 50	225	51	45	1	670	SV 50 R
Hose i.D. 53	225	54	46	1	960	SV 53 R

*PN 16 bar

For hose clamps DIN 20039 A, type SL (☺ page 413)



Hose Connections DIN 20038 with safety collar**

Hose connection	L	D	L1	∅Safety collar	Passage	⊠	Weight	Type No.
Hose i.D. 13	80	13.5	38.5	25	9	10	48	SV 13 R/S
Hose i.D. 15	105	17	50.5	30	12.5	10	77	SV 15 R/S
Hose i.D. 19	105	21	51.5	34	16	10	107	SV 19 R/S
Hose i.D. 25	160	26.5	78.5	42	22	10	170	SV 25 R/S
Hose i.D. 32	175	33.5	60	50	27	5	382	SV 32 R/S
Hose i.D. 38	215	40	96	56	33	5	490	SV 38 R/S
Hose i.D. 50	225	51	110	78	45	1	870	SV 50 R/S
Hose i.D. 53	225	54	110	78	46	1	1126	SV 53 R/S
Hose i.D. 75	250	76	120	110	68	1	1811	SV 75 R/S

**PN 25 bar

For hose clamps DIN 20039 B, type SK (☺ page 413)



Male thread nipples with thread ferrule (according to DIN EN 14424)*

Hose connect.	Thread connect.	L	SW	L1	SW1	L2	Passage	⊠	Weight	Type No.
Hose 13x3	G 1/2 m	50	22	12	22	27	11	10	102	G 12-133 TQ
Hose 13x5	G 1/2 m	50	22	12	22	27	11	10	104	G 12-135 TQ
Hose 15x5	G 3/4 m	52	27	13	27	30	13	10	140	G 34-155 TQ
Hose 19x5	G 3/4 m	52	27	13	27	30	17	10	170	G 34-195 TQ
Hose 19x6	G 3/4 m	52	27	13	27	30	17	10	180	G 34-196 TQ
Hose 25x5	G 1 m	58	36	14	36	36	22	10	220	G 10-255 TQ
Hose 25x7	G 1 m	58	36	14	36	36	22	10	230	G 10-257 TQ

*PN 16 bar

Assembly instructions for thread ferrules (☺ page 433)

Other sizes on request.





Mortar Couplings and Plugs



Our coupling systems are specially designed for the applications: mortar, plaster or floor screeding, pumps, sprayer or plastering machines. They guarantee an optimum working safety and maximum flow of the material from your machine.

Mortar couplings are lever couplings - not interchangeable with the standard Kamlok couplings according to DIN EN 14420-7. Function: Female and male parts made of malleable iron or steel are locked by two handles. Please note two different systems are used in the market (22 and 23.5 mm in size).

With a working pressure of 50 bar, a precise assembly on the hose barb is necessary. We recommend to use at least on one connecting point a swivel version. Such an assembly offers longer duration vs a ridged standard installation / assembly.

Reliable Quality

Max. working pressure 50 bar TÜV-inspected

Maximum bore for maximum free flow capacity



Machined, exactly to hose adapted stem profile for crimping or steel band

All common systems from 3/4" to 2 1/2" with all kinds of connections available

Note different dimensional systems 22 and 23.5

Robust malleable iron handles with pin and ring

Material: Malleable iron or steel, surface zinc-plated and yellow passivated (free of chrome VI)

Mortar Couplings made of Aluminium

Type Size X25, rigid and swivelling

- Couplings with female thread, optionally rigid or swivelling
- Mainly used directly at the spraying nozzle, 60 % weight reduction compared with steel version, therefore essentially easier application
- Swivelling Version three parts, lead in teflon slide, therefore extremely robust and tight
- **Swivelling concept avoids hose twist of the rigid mortar hoses for much easier application**

Materials:

- Female thread: Aluminium
- Handles: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- O-rings: Buna N, PTFE, PUR*



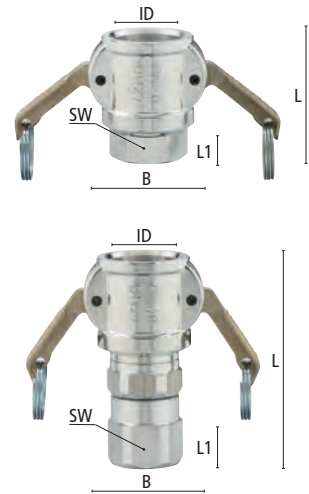
Max. Working Pressure	Thread	System	TÜV-inspected	Media	
PN 40 bar	ISO 228	X25	all types	Mortar/concrete	1

Coupling with female thread

Thread connection	L	SW	B	Type-Size	ID	L1	Passage	System	Weight	Type No.
G 1 f	72	41	70	X25	42	19	25	rigid	290	MIG 10-X25A
G 1 f	120	41	70	X25	42	21	23	swivelling	405	MIG 10-X25ADR*

Rubber rings Type No. MDR-X25 and handles Type No. MNH-630 (☺ page 257)

*Female thread sealing ring material polyurethane



Mortar Couplings made of Malleable Iron/ Steel - Interchangeable with System "Mai"

Materials:

- Female thread, handle: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Male thread: Steel zinc-plated and yellow passivated (free of chrome VI)
- O-rings: Buna N

Max. Working Pressure	Thread	Media	
PN 50 bar	ISO 228	Mortar/concrete	1

Coupling with female thread and 1 handle

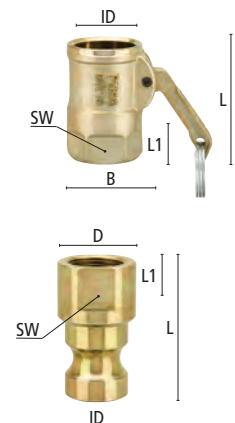
Thread connection	L	SW	B	ID	L1	Passage	Weight	Type No.
G 1 f	70	41	55	38	16	25	375	MIG 10-MA

Rubber rings, type no. EDR-100-BU (☺ page 332)

Plug with female thread

Thread connection	L	SW	D	ID	L1	Passage	Weight	Type No.
G 1 f	80	41	46	37.5	18.5	25	405	VIG 10-MA

For hose connection use screwing stems for steel band (☺ page 259) or crimping ferrules (☺ page 261)

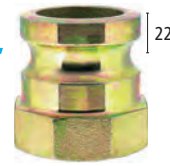


Mortar Couplings

made of Malleable Iron/ Steel, Rigid and Swivelling - Standard Version



- Couplings of malleable iron / steel, zinc-plated and yellow passivated (free of chrome VI)
- Turned stem profile for perfect fit of the hose (On request according to drawing or hose sample)
- Attention: Only same type-size and same system interchangeable!
- For mortar and concrete lines on pumps, spraying-devices, plastering machines a.o.
- Other swivelling types on request!
- Swivelling Version three parts, lead in teflon slide, extremely robust and tight
- Avoids hose twist of the rigid mortar hoses for much easier application



System 22
(for all type-sizes except 42)



System 23.5
(only type-sizes 35 and 50!)

Max. Working Pressure	Thread	TÜV-inspected	Media	
PN 50 bar	all types	all types	Mortar/concrete	1

Couplings with hose stem (full passage)

Hose connect.	L	B	Type-Size	ID	L1	Passage	System	Weight	System 22		System 23.5	
									Type No.	Type No.	Type No.	Type No.
Hose i.D. 25	120	55	25	35.5	67	20	rigid, 1 Handle	477	MST 25	Same dimension		
Hose i.D. 25	138	74	X25	42	64	25	rigid, 2 Handles	778	MST-X25	Same dimension		
Hose i.D. 35	132	77	35	51	75	29	rigid, 2 Handles	795	MST 35	MST 35-N		
Hose i.D. 35	152	77	35	51	68	30	swivelling, 2 Handles	970	MST 35-DR	MST 35-DR-N		
Hose i.D. 38	146	77	35	51	64	33	rigid, 2 Handles	903	MST 38/35	MST 38/35-N		
Hose i.D. 42	144	84	42	54	67	38	rigid, 2 Handles	960	MST 42**	Same dimension		
Hose i.D. 50	140	94	50	64	83	43	rigid, 2 Handles	1195	MST 50	MST 50-N		
Hose i.D. 65	185	105	65	74	98	56	rigid, 2 Handles	2172	MST 65*	Same dimension		

Couplings with hose stem (reduced passage)

Hose connect.	L	SW	B	Type-Size	ID	L1	Passage	System	Weight	Type No.	Type No.
Hose i.D. 19	122	41	55	25	35.5	50	16	rigid, 1 Handle	512	MST 25/19 R	Same dimension
Hose i.D. 19	125	41	74	X25	42	50	16	rigid, 2 Handles	760	MST-X25/19 R	Same dimension
Hose i.D. 25	138	50	77	35	51	64	24	rigid, 2 Handles	783	MST 35/25 R	MST 35/25 R-N
Hose i.D. 35	160	70	94	50	64	77	30	rigid, 2 Handles	1495	MST 50/35 R	MST 50/35 R-N
Hose i.D. 42	160	70	94	50	64	77	38	rigid, 2 Handles	1510	MST 50/42 R	MST 50/42 R-N

Couplings with female thread

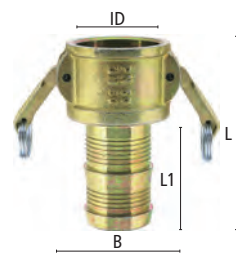
Thr. connect.	L	SW	B	Type-Size	ID	L1	Passage	System	Weight	Type No.	Type No.
G 1 f	70	41	55	25	35.5	18	24	rigid, 1 Handle	410	MIG 10/25	Same dimension
G 1 f	73,5	41	74	X25	42	19	25	rigid, 2 Handles	652	MIG 10-X25	Same dimension
G 1 f	74	50	77	35	51	19	30	rigid, 2 Handles	770	MIG 10/35	MIG 10/35-N
G 1 1/4 f	74	50	77	35	51	19	35	rigid, 2 Handles	648	MIG 54/35	MIG 54/35-N
G 1 1/4 f	125	50	77	35	51	23	33	swivelling, 2 Handles	1170	MIG 54/35-DR	MIG 54/35-N-DR
G 1 1/2 f	74	56	77	35	51	19	35	rigid, 2 Handles	766	MIG 15/35	MIG 15/35-N
G 1 1/2 f	66	60	84	42	54	19	38	rigid, 2 Handles	730	MIG 15/42**	Same dimension
G 2 f	79	70	94	50	64	26	50	rigid, 2 Handles	990	MIG 20/50	MIG 20/50-N
G 2 f	135	70	94	50	64	25	43	swivelling, 2 Handles	1550	MIG 20/50-DR	MIG 20/50-DR-N
G 2 1/2 f	81	84	105	65	74	26	58	rigid, 2 Handles	1027	MIG 25/65*	Same dimension

Couplings with male thread

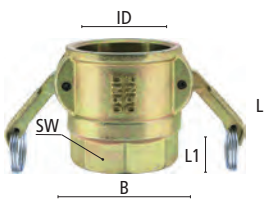
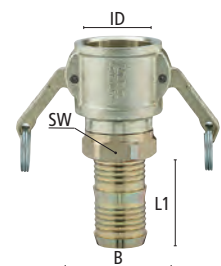
Thr. connect.	L	SW	B	Type-Size	ID	L1	Passage	System	Weight	Type No.	Type No.
G 1 m	91	41	55	25	35.5	17	24	rigid, 1 Handle	485	MAG 10/25	Same dimension
G 1 m	90	41	74	X25	42	16	25	rigid, 2 Handles	735	MAG 10-X25	Same dimension
G 1 1/4 m	93	50	77	35	51	19	33	rigid, 2 Handles	793	MAG 54/35	MAG 54/35-N
G 1 1/2 m	98	60	84	42	54	22	38	rigid, 2 Handles	935	MAG 15/42**	Same dimension
G 2 m	113	70	94	50	64	25	47	rigid, 2 Handles	1420	MAG 20/50	MAG 20/50-N
G 2 1/2 m	119	84	94	50	64	25	50	rigid, 2 Handles	1620	MAG 25/50	MAG 25/50-N

* max. working pressure for type-size 65 PN 25 bar

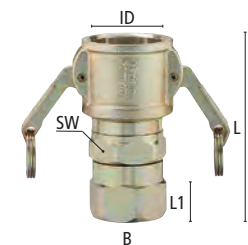
**type-size 42 system 17.5 derived from DIN EN 14420-7, DN 40



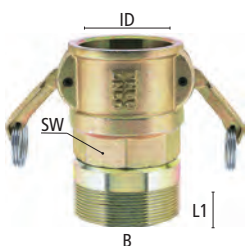
swivelling



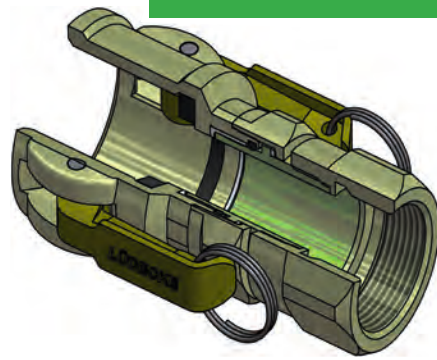
swivelling



swivelling

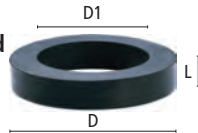


Mortar Couplings



Materials

- Female thread, handle:
Malleable iron, zinc-plated and yellow passivated (free of chrome VI)
- O-rings: Buna N
- Hose thread: Steel zinc-plated and yellow passivated (free of chrome VI)



Seals of Buna N
55° Shore A



Handle with safety-ring and slotted pin of malleable iron zinc-plated and yellow passivated (free of chrome VI)

Suitable spare parts
(Packing Unit 10 St.)

L	D	D1	Type No.	Type No.
6	36	24,5	MDR 25	MNH-628
6	43.5	28.5	MDR-X25	MNH-630
6	53.5	36.5	MDR 35	MNH-628
6	53.5	36.5	MDR 35	MNH-628
6	53.5	36.5	MDR 35	MNH-628
6.5	55	41	MDR 42	MNH-628
6	67	51	MDR 50	MNH-636
6.3	76	61	MDR 65	MNH-636

L	D	D1	Type No.	Type No.
6	36	24.5	MDR 25	MNH-628
6	43.5	28.5	MDR-X25	MNH-630
6	53.5	36.5	MDR 35	MNH-628
6	67	51	MDR 50	MNH-636
6	67	51	MDR 50	MNH-636

L	D	D1	Type No.	Type No.
6	36	24.5	MDR 25	MNH-628
6	43.5	28.5	MDR-X25	MNH-630
6	53.5	36.5	MDR 35	MNH-628
6	53.5	36.5	MDR 35	MNH-628
6	53.5	36.5	MDR 35	MNH-628
6	53.5	36.5	MDR 35	MNH-628
6.5	55	41	MDR 42	MNH-628
6	67	51	MDR 50	MNH-636
6	67	51	MDR 50	MNH-636
6.3	76	61	MDR 65	MNH-636

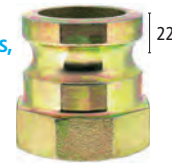
L	D	D1	Type No.	Type No.
6	36	24.5	MDR 25	MNH-628
6	43.5	28.5	MDR-X25	MNH-630
6	53.5	36.5	MDR 35	MNH-628
6.5	55	41	MDR 42	MNH-628
6	67	51	MDR 50	MNH-636
6	67	51	MDR 50	MNH-636

Mortar Plugs

made of Malleable Iron/ Steel, Rigid and Swivelling - Standard Version



- Plugs of malleable iron / steel, zinc plated and yellow passivated (free of chrome VI)
- Turned stem profile for perfect fit of the hose (On request according to drawing or hose sample)
- Attention: Only same type-size and same system interchangeable!
- For mortar and concrete lines on pumps, spraying- devices, plastering machines a.o.
- Other swivelling types on request!
- Swivelling Version three parts, lead in teflon slide, extremely robust and tight
- Avoids hose twist of the rigid mortar hoses for much easier application



System 22
(for all type-sizes except 42)



System 23.5
(only type-sizes 35 and 50!)

Max. Working Pressure	Thread	TÜV-inspected	Media	
PN 50 bar	ISO 228	all types	Mortar/concrete	1

Plugs with hose stem (full passage)

Hose connect.	L	Type-Size	ID	L1	Passage	System	Weight	System 22		System 23.5	
								Type No.	Type No.	Type No.	Type No.
Hose i.D. 25	110	25	35	64	20	rigid	270	VST 25		Same dimension	
Hose i.D. 25	120	X25	41	65	24	rigid	385	VST-X25		Same dimension	
Hose i.D. 25	125	X25	41	60	24	swivelling	420	VST-X25-DR		Same dimension	
Hose i.D. 35	120	35	49.5	70	30	rigid	515	VST 35		VST 35-N	
Hose i.D. 35	146	35	49.5	68	30	swivelling	740	VST 35-DR		VST 35-DR-N	
Hose i.D. 38	120	35	49.5	70	33	rigid	470	VST 38/35		VST 38/35-N	
Hose i.D. 42	120	42	53	77	38	rigid	450	VST 42**		Same dimension	
Hose i.D. 50	140	50	63	77.5	42	rigid	925	VST 50		VST 50-N	
Hose i.D. 50	170	50	63	82	43	swivelling	1230	VST 50-DR		VST 50-DR-N	
Hose i.D. 65	156	65	73	98	56	rigid	1352	VST 65*		Same dimension	



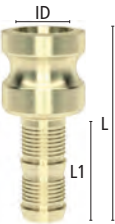
swivelling

swivelling

swivelling

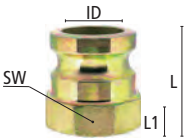
Plugs with hose stem (reduced passage)

Hose connect.	L	Type-Size	ID	L1	Passage	System	Weight	Type No.	Type No.
Hose i.D. 19	100	X25	41	50	16	rigid	325	VST-X25/19R	Same dimension
Hose i.D. 25	115	35	49.5	64	20	rigid	545	VST 35/25 R	VST 35/25 R-N
Hose i.D. 35	121	50	63	70	30	rigid	830	VST 50/35 R	VST 50/35 R-N
Hose i.D. 42	121	50	63	70	38	rigid	757	VST 50/42 R	VST 50/42 R-N



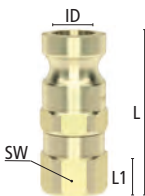
Plugs with female thread

Thread connect.	L	SW	Type-Size	ID	L1	Passage	System	Weight	Type No.	Type No.
G 1 f	67	41	25	35	15	20	rigid	280	VIG 10/25	Same dimension
G 1 f	67	41	X25	41	15	25	rigid	345	VIG 10-X25	Same dimension
G 1 f	106	41	X25	41	21	23	swivelling	610	VIG 10-X25-DR	Same dimension
G 1 1/4 f	67	50	X25	41	16	25	rigid	386	VIG 54-X25	Same dimension
G 1 f	63	50	35	49.5	20	30	rigid	521	VIG 10/35	VIG 10/35-N
G 1 1/4 f	68	50	35	49.5	16	33	rigid	461	VIG 54/35	VIG 54/35-N
G 1 1/4 f	120	50	35	49.5	23	33	swivelling	840	VIG 54/35-DR	VIG 54/35-DR-N
G 1 1/2 f	68	55	35	49.5	19	33	rigid	453	VIG 15/35	VIG 15/35-N
G 2 f	74	70	35	49.5	20	33	rigid	665	VIG 20/35	VIG 20/35-N
G 1 1/2 f	62	55	42	53	16	38	rigid	420	VIG 15/42**	Same dimension
G 1 1/4 f	64	65	50	63	22	35	rigid	820	VIG 54/50	VIG 54/50-N
G 1 1/2 f	64	65	50	63	22	44	rigid	678	VIG 15/50	VIG 15/50-N
G 2 f	71	70	50	63	20	45	rigid	620	VIG 20/50	VIG 20/50-N
G 2 f	130	70	50	63	25	43	swivelling	1040	VIG 20/50-DR	VIG 20/50-DR-N
G 2 1/2 f	78	85	50	63	25	45	rigid	960	VIG 25/50	VIG 25/50-N
G 2 1/2 f	78	85	65	73	25	56	rigid	999	VIG 25/65*	Same dimension



swivelling

swivelling



swivelling

* max. working pressure for type-size 65 PN 25 bar

** type-size 42 system 17.5 derived from DIN EN 14420-7, DN 40

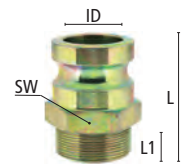
Other swivelling types on request

Mortar Plugs

Materials:

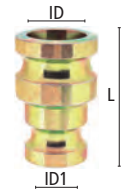
- Plug, screwing stem: Steel zinc-plated and yellow passivated (free of chrome VI)
- Coupling, handle: Malleable iron, zinc-plated and yellow passivated (free of chrome VI)
- O-rings: Buna N

										System 22	System 23.5
Plugs with male thread											
Thread connect.	L	SW	Type-Size	ID	L1	System	Passage	Weight	Type No.	Type No.	
G 1 m	76	41	25	35	17	rigid	20	356	VAG 10/25	Same dimension	
G 1 m	76	41	X25	41	17	rigid	24	382	VAG 10-X25	Same dimension	
G 1 1/4 m	83	50	35	49.5	20	rigid	33	527	VAG 54/35	VAG 54/35-N	
G 1 1/2 m	77	55	42	53	20	rigid	38	525	VAG 15/42**	Same dimension	
G 2 m	90	65	50	63	25	rigid	45	950	VAG 20/50	VAG 20/50-N	



Plugs on both sides – system-reducing plug

Type-Size	L	ID	ID1	Passage	Weight	Type No.	Type No.
X25 - 25	90	41	35	20	448	VR X25/25	Same dimension
35 - 25	97	49.5	35	20	654	VR 35-25	VR 35-N-25
35 -X25	100	49.5	41	25	690	VR 35-X25	VR 35-N-X25
42 - X25	90	53	41	25	620	VR 42/X25**	Same dimension
42 - 35	90	53	49.5	33	650	VR 42/35**	VR 42/35-N
50 - X25	100	63	41	25	955	VR 50-X25	VR 50-N-X25
50 - 35	100	63	49.5	33	955	VR 50-35	VR 50-N/35-N
50 - 42	95	63	53	38	983	VR 50/42**	VR 50-N/42



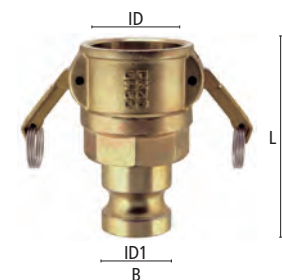
Screwing stems for female thread couplings and plugs

Hose connect.	Thread connect.	L	L1	L2	Passage	Weight	Type No.
Hose i.D. 19	G 1 m	70	18	50	16	106	MST-X25/19T
Hose i.D. 25	G 1 m	83.5	18	64	24	128	MST-X25T
Hose i.D. 35	G 1 1/4 m	91	19	70	30	236	MST-35T
Hose i.D. 38	G 1 1/4 m	91	20	70	33	210	MST-38/35T
Hose i.D. 35	G 2 m	107	27	77	30	506	MST-50/35T
Hose i.D. 42	G 1 1/2 m	97	19	77	38	259	MST-42T
Hose i.D. 42	G 2 m	106	26	77	38	428	MST-50/42T
Hose i.D. 50	G 2 m	110	26	82	42	510	MST-50T
Hose i.D. 65	G 2 1/2 m	130	25	98	56	1145	MST-65T



Couplings with plug – system-reducing-adaptors

Type-Size	L	B	ID	ID1	Passage	Weight	Type No.	Type No.
X25 - 25	132	74	42	35	20	993	MSA-X25/25	Same dimension
35 - X25	133	77	51	41	24	1154	MSA 35/X25	MSA 35-N/X25
42 - 35	135	84	54	49	33	1270	MSA 42/35**	MSA 42/35-N
50 - 35	133	94	64	49	33	1580	MSA 50/35	MSA 50-N/35-N
50 - 42	133	94	64	53	38	1585	MSA 50/42**	MSA 50-N/42



*Handles and seals as spare parts (© page 257)

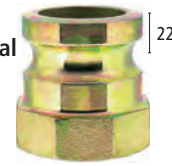
**type-size 42 system 17.5 derived from DIN EN 14420-7, DN 40

Mortar Couplings and Plugs

made of Malleable Iron/ Steel, Rigid and Swivelling, for Hydraulic Hose Crimping



- For hydraulic crimping with turned steel ferrules
- Safe, closed and unremovable connection of hose and fitting
- Couplings and Plugs of malleable iron/ steel, zinc-plated and yellow passivated (free of chrome VI)
- Turned stem profile for exact fit of the hose
- Stem-profiles, ferrules and crimping dimensions for special hoses on request according to drawings or hose samples
- Swivelling Version three parts, lead in teflon slide, extremely robust and tight
- Avoids hose twist of the rigid mortar hoses for much easier application



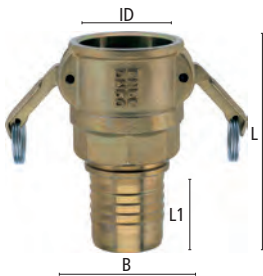
System 22
(for all type-sizes except 42)






System 23.5
(only type-sizes 35 and 50!)

Max. Working Pressure	Thread	TÜV-inspected	Media	
PN 50 bar	ISO 288	all types	Mortar/concrete	1

										System 22	System 23.5
Couplings with hose stem (full passage)											
Hose connect.	L	B	Type-Size	ID	Passage	System	Presshül.	Weight	Type No.	Type No.	
Hose 25x7	125	55	25	35,5	24	rigid,2 Handles	PH-X25	540	MSTP 25*	Same dimension	
Hose 25x7	128	74	X25	42	24	rigid,2 Handles	PH-X25	780	MSTP-X25	Same dimension	
Hose 35x7	138	77	35	51	30	rigid,2 Handles	PH-35	910	MSTP 35	MSTP 35-N	
Hose 38x7	135	77	35	51	33	rigid,2 Handles	PH-38	910	MSTP 38/35	MSTP 38/35-N	
Hose 42x7	127	84	42	54	38	rigid,2 Handles	PH-42	974	MSTP 42**	Same dimension	
Hose 50x9	145	94	50	64	44	rigid,2 Handles	PH-50	1480	MSTP 50	MSTP 50-N	



										System 22	System 23.5
Couplings with hose stem (reduced passage)											
Hose connect.	L	B	Type-Size	ID	Passage	System	Ferrule	Weight	Type No.	Type No.	
Hose 19x6	125	74	X25	42	15	rigid, 2 Handles	PH-19	780	MSTP-X25/19R	Same dimension	
Hose 25x7	129	77	35	51	24	rigid, 2 Handles	PH-X25	870	MSTP 35/25 R	MSTP 35/25 R-N	
Hose 35x7	140	94	50	64	30	rigid, 2 Handles	PH-35	1480	MSTP 50/35 R	MSTP 50/35 R-N	

										System 22	System 23.5
Plugs with hose stem (full passage)											
Hose connect.	L	SW	Type-Size	ID	L1	Passage	System	Ferrule	Weight	Type No.	Type No.
Hose 25x7	100	-	25	35.5	44	20	rigid	PH-X25	305	VSTP 25	Same dimension
Hose 25x7	104	-	X25	41	44	24	rigid	PH-X25	339	VSTP-X25	Same dimension
 Hose 25x7	115	41	X25	41	45.5	24	swivelling	PH-X25 DR	380	VSTP-X25-DR	Same dimension
Hose 35x7	107	-	35	49.5	50	30	rigid	PH-35	522	VSTP 35	VSTP 35-N
 Hose 35x7	135	50	35	49.5	50	30	swivelling	PH-35 DR	740	VSTP 35-DR	VSTP 35-N-DR
Hose 38x7	107	-	35	49.5	50	33	rigid	PH-38	472	VSTP 38/35	VSTP 38/35-N
Hose 42x7	106	-	42	54	50	38	rigid	PH-42	475	VSTP 42**	Same dimension
Hose 50x9	113	-	50	63	55	44	rigid	PH-50	758	VSTP 50	VSTP 50-N
 Hose 50x9	145	65	50	63	55	43	swivelling	PH-50 DR	1020	VSTP 50-DR	VSTP 50-N-DR

										System 22	System 23.5
Plugs with hose stem (reduced passage)											
Hose connect.	L	Type-Size	ID	L1	Passage	System	Presshül.	Weight	Type No.	Type No.	
Hose 19x6	95	25	35.5	40	15	rigid	PH-19	238	VSTP 25/19 R	Same dimension	
Hose 19x6	100	X25	41	40	15	rigid	PH-19	345	VSTP-X25/19R	Same dimension	
Hose 25x7	102	35	49.5	45	24	rigid	PH-X25	490	VSTP 35/25 R	VSTP 35/25 R-N	
Hose 35x7	107	50	63	50	30	rigid	PH-35	820	VSTP 50/35 R	VSTP 50/35 R-N	
Hose 42x7	108	50	63	45	38	rigid	PH-42	741	VSTP 50/42 R	VSTP 50/42 R-N	

Other swivelling types on request

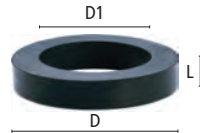
*type-size 25 with one handle

**type-size 42 system 17.5 derived from DIN EN 14420-7, DN 40

Mortar Couplings and Plugs

Material:

- Coupling, handle: Malleable iron, zinc-plated and yellow passivated (free of chrome VI)
- Plug, hose stem: Steel zinc-plated and yellow passivated (free of chrome VI)
- O-rings: Buna N



Seals of Buna N
55° Shore A



Handle with safety-ring and
slotted pin of malleable
iron zinc-plated and yellow
passivated (free of chrome VI)

Suitable spare parts
(packing Unit: 10 St.)

L	D	D1	Type No.	Type No.
6	36	24.5	MDR 25	MNH-628
6	43.5	28.5	MDR-X25	MNH-630
6	53.5	36.5	MDR 35	MNH-628
6	53.5	36.5	MDR 35	MNH-628
6.5	55	41	MDR 42	MNH-628
6	67	51	MDR 50	MNH-636
L	D	D1	Type No.	Type No.
6	43.5	28.5	MDR-X25	MNH-630
6	53.5	36.5	MDR 35	MNH-628
6	67	51	MDR 50	MNH-636

Crimping Ferrules of turned steel for hydraulic crimping (inner profile exactly suitable to hose stem profile)

Hose connect.	L	D	Type-size	D1	D2	System	Weight	Type No.
Hose 19x6	40	38	19/25	31.5	24.5	rigid	102	PH-19
Hose 25x7	50	50	X25	41	33	rigid	218	PH-X25
Hose 25x7	50	50	X25	41	31.3	swivelling	220	PH-X25 DR
Hose 35x7	55	58	35	49	42.5	rigid	275	PH-35
Hose 35x7	55	58	35	49	41	swivelling	280	PH-35 DR
Hose 38x7	55	61	35	53	45.5	rigid	259	PH-38
Hose 42x7	55	65	42	56	50.5	rigid	313	PH-42
Hose 50x9	60	75	50	68.5	59.5	rigid	302	PH-50
Hose 50x9	60	75	50	68.5	57	swivelling	310	PH-50 DR



Screwing Stems for hydraulic crimping

Hose connect.	Thread connect.	L	D	L1	L2	Passage	Ferrule	Weight	Type No.
Hose 19x6	G 1 m	69.5	24	40	18	15	PH-19	125	MSTP-X25/19T
Hose 25x7	G 1 m	73.5	32.5	45	18	24	PH-X25	120	MSTP-X25T
Hose 35x7	G 1 1/4 m	80	42	50	19	30	PH-35	218	MSTP-35T
Hose 38x7	G 1 1/4 m	80	45	50	19	33	PH-38	223	MSTP-38/35T
Hose 35x7	G 2 m	86	42	50	24	30	PH-35	526	MSTP-50/35T
Hose 42x7	G 1 1/2 m	80	50	50	20	38	PH-42	246	MSTP-42T
Hose 42x7	G 2 m	87	50	50	25	38	PH-42	452	MSTP-50/42T
Hose 50x9	G 2 m	91	59	55	25	41	PH-50	497	MSTP-50T





Sandblast Couplings

A Durable Connection for Aggressive Abrasive Media



In applications such as sandblasting cabins or machines we recommend the use of our sandblast couplings and nozzles.

This system is related to the claw coupling design, but different in dimensions with a 58 mm claw distance. All dimensions are identical on the front side and always interchangeable.

Sandblast Couplings made of Malleable Iron

Robust and stabile



Sandblast Couplings made of Nylon

Extremely light, easy to handle



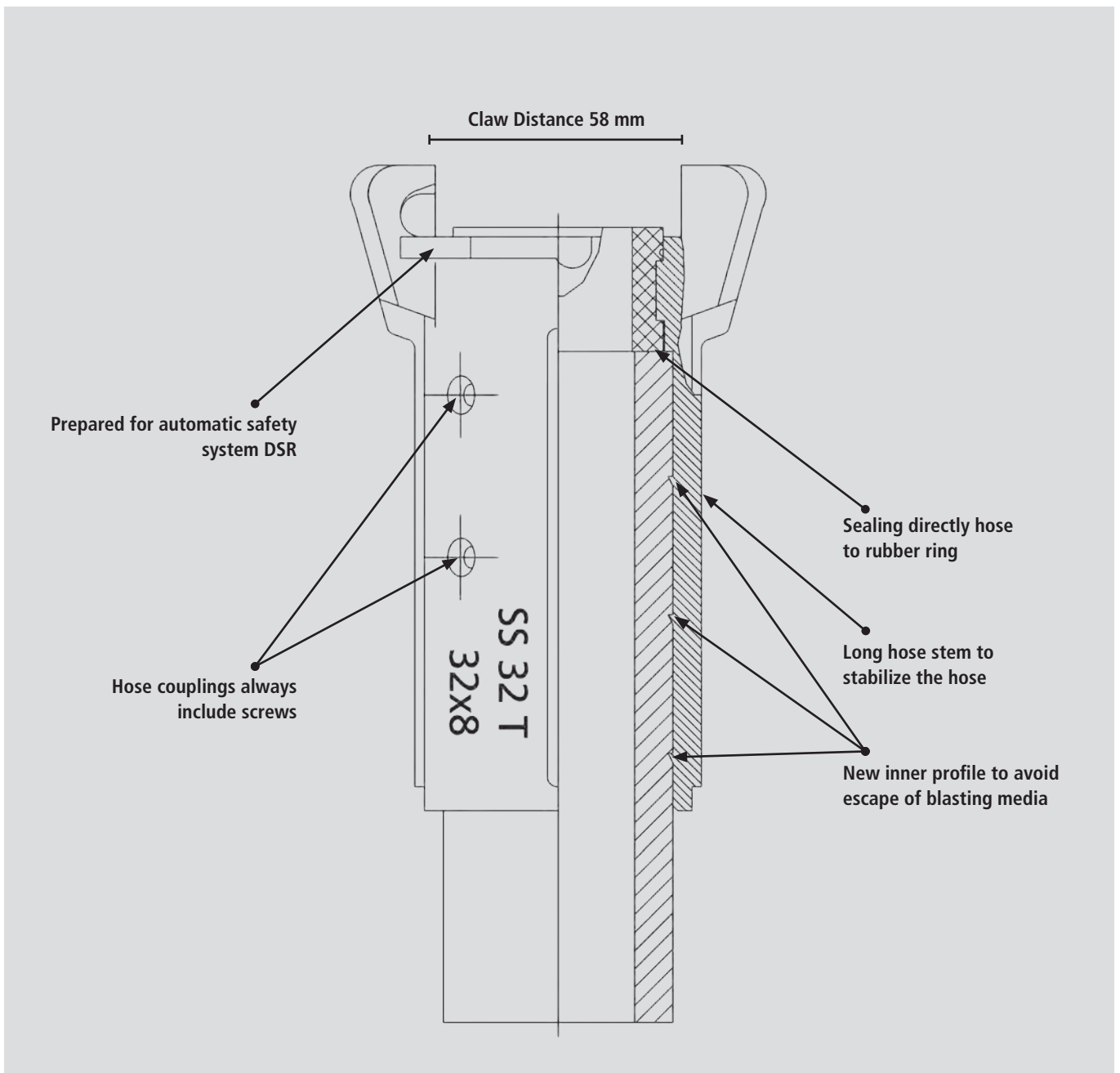
Note:

We recommend to use a safety system (DSR).

The hose is fixed inside the body of the coupling while locking screws are screwed through the body into the hose. This assembly avoids abrasion and direct contact with the highly aggressive media.



Proven Design - Reliable Quality



Sandblast Couplings and Nozzle Holders

made of Malleable Iron/ Aluminium

- Couplings of malleable iron, zinc-plated and yellow passivated (free of chrome VI) or of nylon
- Nozzle holders of aluminium or nylon
- Hose couplings and nozzle holders generally with screws
- We recommend in all cases to use our safety-clip USC-1 and for all types 'TN' to use the automatic safety system DSR (for nylon couplings always inclusive) for your own security
- Types 'TN' with direct sealing hose to gasket and extended stem with new inner profile to avoid escape of blasting media
- **To be used on all stationary and mobile blasting machines and plants**

Materials:

- Couplings: Malleable iron zinc-plated and yellow passivated (free of chrome VI) or nylon
- Nozzle Holder: Aluminium or nylon
- O-rings: Buna N

Max. Working Pressure	Temperature	Thread	Claw Distance	Media	
PN 12 bar	up to +100°C	ISO 228 / coarse thread	58 mm	Blasting media	1

Hose Couplings of malleable iron

Hose connection	L	B	Weight	Type No.
Hose 19x6	100	63	900	SS 19 T*
Hose 25x7	93	87	481	SS 25 T
Hose 32x8	92	87	570	SS 32 T
Hose 38x9	129	87	784	SS 38 T
Hose 40x10	150	87	893	SS 40 T

*KIG 54 (claw distance 42 mm) with screwed-in steel pipe

Female thread Couplings of malleable iron

Thread connection	L	B	L1	Weight	Type No.
G 1 1/4 f	62	87	28.5	509	SK 38 TN
G 1 1/4 f	55	87	27	392	SK 38 T
G 1 1/2 f	62	87	28.5	464	SK 38/15 TN
G 1 1/2 f	55	87	27	340	SK 38/15 T
Coarse thread 50	62	87	27	448	SK 50 TN
Coarse thread 50	55	87	29.5	324	SK 50 T
G 2 f	84	87	42.5	550	SK 60 T

Original Rubber Ring for couplings of malleable iron

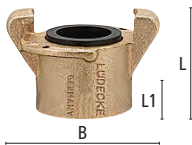
Syst.	Resistance	L	D	D1	Material	Temp.°C	Colour	Shore A	Weight	Type No.	
...T	Oil/ Air	10,5	48,5	31	Buna N	-40 – +95	black	60°	10	11	SKD
...TN	Oil/ Air	27	44	31	Buna N	-40 – +95	black	60°	10	20	SKD-1

Nozzle Holders of aluminium with female thread

Hose connection	Thread connection	L	D	L1	Weight	Type No.
Hose 32x8	G 1 1/4 f	130	57	28.5	248	SD 32-32 A
Hose 32x8	Coarse thread 50	130	57	28.5	231	SD 50-32 A

Original Spare Parts for couplings and nozzle holders

Typ	Material	Characteristics	Weight	Type No.	
Screws	Steel zinc-plated	recessed head 4.2 x 13	50	1	SHS
Safety Clip DIN 11024	Steel zinc-plated	wire Ø 3	50	10	USC-1
Automat. Safety System	Steel zinc-plated	wire Ø 2	10	6	DSR



Sandblast Couplings and Nozzle Holders

made of Nylon

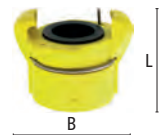
Hose Couplings of Nylon

Hose connection	L	B	Weight	Type No.
Hose 19x7	110	51	193	CQP-3/4
Hose 25x7	110	51	165	CQP-1
Hose 32x8	136	60	222	CQP-2
Hose 8x9	136	67	244	CQP-3
Hose 42x9/40x10	136	71	215	CQP-4



Female thread Couplings of Nylon

Thread connection	L	B	Weight	Type No.
G 1 1/4 f	63	61	126	CFP
Coarse thread 50 mm	63	61	107	CPF-50



Original Rubber Ring for couplings of Nylon

System	Resistance	L	D	D1	Material	Temp.°C	Colour	Shore A	Weight	Type No.	
CQP-3/4	Oil /Air	27	44	19	Buna N	-40 – +95	black	60°	5	20	SDR-1
CQP-1	Oil /Air	27	44	25	Buna N	-40 – +95	black	60°	5	17	SDR-2
All other types	Oil /Air	27	44	31.5	Buna N	-40 – +95	black	60°	5	18	SDR-3



Nozzle Holders of Nylon with female thread

Hose connection	Thread connection	L	D	Weight	Type No.
Hose 19x7	Coarse thread 50	100	49	115	NHP-34
Hose 25x7	Coarse thread 50	100	51	93	NHP-1
Hose 32x8	Coarse thread 50	120	59	150	NHP-2
Hose 38x9	Coarse thread 50	128	66	156	NHP-3
Hose 19x7	G 1 1/4 f	100	51	109	HEP-34
Hose 25x7	G 1 1/4 f	100	51	102	HEP-1
Hose 32x8	G 1 1/4 f	128	59	154	HEP-2
Hose 38x9	G 1 1/4 f	128	66	166	HEP-3



Sandblast Throttle Valve with lever stop, without exhaust, both sides tapered male thread

Extreme reliable Version with throttle of steel

Materials:

- Housing, Handle: Malleable iron zinc-plated and yellow passivated (free of chrome VI)

Inlet	Outlet	L	SW	B	L1	L2	Passage	Weight	Type No.
NPT 1 m	NPT 1 m	96	37	168	22	22	16	741	ADA 10 SK





Hose Clamps and Hose Clips







For hose assembly of fittings different assembly methods from strong clamps to light clips can be used according to application, media, pressure or hose material.

The necessary method is subject to criteria such as:

- Safety instructions
- Removable or not removable
- Quickness
- Necessary tools (e.g. crimping machine)
- Cleanliness or connections with injury risk (e.g. over - extended screws)

Wide Range

At **LUDECKE** you find the perfect hose clamp for various application areas

	Hose Clamps Standard Version	Hose Clamps US-Version	Double-Ear Hose Clips	Heavy Duty Clamps
				
Clamps:	Malleable iron zinc-plated and yellow passivated/ Stainless steel 1.4401	Malleable iron zinc-plated and yellow passivated	Unbreakable special reliable steel zinc-plated & blue chromated	-
Spacers:	Malleable iron zinc-plated and yellow passivated/ Stainless steel 1.4401	-	-	-
Screws:	Steel zinc-plated/ St. steel A4-70	Steel zinc-plated	-	Steel zinc-plated
Band:	-	-	-	Stainless Steel 1.4016
Body:	-	-	-	Steel zinc-plated
Max. Working Press.:	PN 16/ 25 bar	PN 25 bar	-	-
Norm:	DIN 20039 A/B	-	-	DIN 3017
Page:	267	268	269	270

Hose Clamps

Standard Version

- Robust clamps made of malleable iron, zinc plated and yellow passivated (free of chrome VI) or stainless steel 1.4401
- Robust, easy and secure, for various fittings and applications

Materials

- Clamps, Spacers: Malleable iron zinc-plated and yellow passivated (free of chrome VI)/ Stainless steel 1.4401
- Screws: Galvanized steel/ Stainless steel A4-70

Max. Working Pressure	Norm
PN 16 / 25 bar	DIN 20039 A/B

Hose Clamps, made of malleable iron, two parts with overlapping cast-on-spacers

Version	Hose-o.D./		L	B	Screw size	Weight	Type No.
	Range						
Hose i.D. 13	22-29		60	17	M 8x30	10	S 22
Hose i.D. 19	27-32		70.5	17	M 8x30	10	S 34

Hose Clamps DIN 20039 A, made of stainless steel 1.4401, two parts with loose spacers

Version	Hose-o.D./		L	B	Screw size	Weight	Type No.
	Range						
Hose i.D. 13	18-26		63	18	M 8x30	5	SLE 13
Hose i.D. 19	26-33		71	18	M 8x30	5	SLE 19
Hose i.D. 25	32-40		81	18	M 10x35	5	SLE 25

Hose Clamps DIN 20039 A, made of malleable iron, two parts with loose spacers

Version	Hose-o.D./		L	B	Screw size	Weight	Type No.
	Range						
Hose i.D. 13	22-29		63	18	M 8x30	10	SL 29*
Hose i.D. 19	28-34		71	18	M 8x30	10	SL 34*
Hose i.D. 25	32-40		81	18	M 10x35	10	SL 40*
Hose i.D. 32	39-49		91	20	M 10x35	10	SL 49*
Hose i.D. 38	48-60		108	24	M 10x45	5	SL 60*
Hose i.D. 50	56-72		116	25	M 10x50	5	SL 72
Hose i.D. 50	60-76		127	25	M 10x50	5	SL 76*
Hose i.D. 63	77-94		146	30	M 12x55	5	SL 94*
Hose i.D. 75	73-94		139	25	M 12x110	1	SL 400
Hose i.D. 75	94-115		176	35	M 12x65	1	SL 115
Hose i.D. 89	113-127		170	27	M 12x110	1	SL 525
Hose i.D. 89	115-145		198	38	M 12x80	1	SL 145
Hose i.D. 100	127-140		178	28	M 12x110	1	SL 550
Hose i.D. 100	135-155		194	27	M 12x110	1	SL 600
Hose i.D. 125	155-175		217	30	M 12x125	1	SL 675
Hose i.D. 150	175-195		244	30	M 12x125	1	SL 769
Hose i.D. 175	210-225		280	35	M 16x150	1	SL 875
Hose i.D. 200	227-250		312	35	M 16x150	1	SL 988

*according to DIN 20039 A

Hose Clamps DIN 20039 B, made of malleable iron, two parts with loose spacers and safety claws***

Version	Hose-o.D./		L	B	Screw size	Weight	Type No.
	Range						
Hose i.D. 13	22-29		63	18	M 8x30	10	SK 29
Hose 19x2			63	18	M 8x30	10	SK 29 FL**
Hose i.D. 19	28-32		77	21	M 10x35	10	SK 34
Hose 25x2			77	21	M 10x35	10	SK 34 FL**
Hose i.D. 25	35-42		90	22	M 10x35	10	SK 39
Hose i.D. 28	42-45		98	24	M 10x35	5	SK 44
Hose i.D. 35	45-53		108	25	M 10x45	5	SK 51
Hose i.D. 42	55-60		119	26	M 10x45	1	SK 60
Hose i.D. 50	60-73		132	30	M 12x55	1	SK 73
Hose i.D. 75	86-102		160	28	M 12x55	1	SK 75

**for flat hose

***PN 25 bar



Hose Clamps

US Version

- Robust clamps made of malleable iron, zinc plated and yellow passivated (free of chrome VI)
- **Robust, easy and secure, for various fittings and applications**

Materials

- Clamps: Malleable iron, zinc-plated and yellow passivated (free of Chrome VI)
- Screws: Galvanized steel



Max. Working Pressure

PN 25 bar

US Version Hose Clamps, two parts with safety claws

Version	Hose-o.D./		L	B	Screw size	Screws	Weight	Type No.
	Range							
Hose i.D. 13	21-27		45	55	M 8x35	2	10	LB-4
Hose i.D. 19	30-35		43	65	M 8x45	2	10	SKA 34
Hose i.D. 19	30-33		64	70	M 10x50	2	1	LBU-9
Hose i.D. 19	33-38		70	71	M 10x50	2	1	LB-9
Hose i.D. 19	38-43		68	78	M 10x60	2	1	LB-10
Hose i.D. 25	34-45		70	85	M 10x50	2	1	SKA 10
Hose i.D. 50	63-70		100	120	M 12x80	4	1	LBU-29

Double-Ear Hose Clips

- Clips made of special reliable steel, zinc plated and blue chromated (free of chrome VI)
- Easy and fast assembly with pincer
- Centric and strong clamp-effect, safe and unremovable
- No risk of injury, closed and unremovable connection
- Suitable for assembly of many hoses and fittings for use with various media

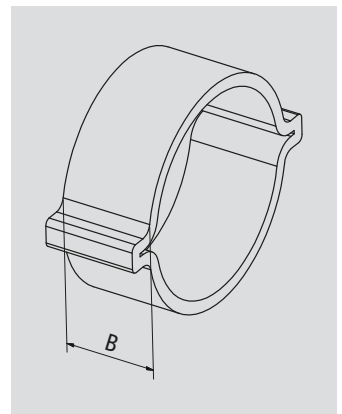
Materials

- Clips: Unbreakable special reliable steel, zinc-plated and blue chromated (free of chrome VI)

100

Double-Ear Hose Clips

Hose-o.D./ Range	B	Weight	Type No.
5-7	5.5	1	ZOS 5-7
7-9	6	2	ZOS 7-9
9-11	6	2	ZOS 9-11
11-13	6	3	ZOS 11-13
13-15	7	4	ZOS 13-15
14-17	7.5	4	ZOS 14-17
15-18	8	5	ZOS 15-18
17-20	8	5	ZOS 17-20
19-21	7	5	ZOS 19-21
20-23	9	8	ZOS 20-23
22-25	9	9	ZOS 22-25
23-27	9	9	ZOS 23-27
25-28	9	10	ZOS 25-28
27-31	9	12	ZOS 27-31
31-34	9	13	ZOS 31-34
34-37	9	16	ZOS 34-37
37-40	9	17	ZOS 37-40
40-43	9	18	ZOS 40-43
Special assembly pincer		332	ZOSZ



Heavy Duty Clamps

made of Steel (DIN 3017)

- Heavy duty clamp made of stainless steel 1.4016
- New special screw with integrated distance tube and better performance
- Reinforced band strap and therefore higher torques (very high breaking torque and very high clamping force)
- Mechanical mounting, therefore no welding points and corrosion contact
- Bridge for sustainable hose relief
- Robust band with rounded edges prevents injuries and hose break
- Simple installation (with manual, pneumatic or electrical standard tools)
- Packed in boxes
- For applications with strict requirements for the hose clamps (for the application of suction and compressed air hoses with high degree of hardness or with plastic / steel core)

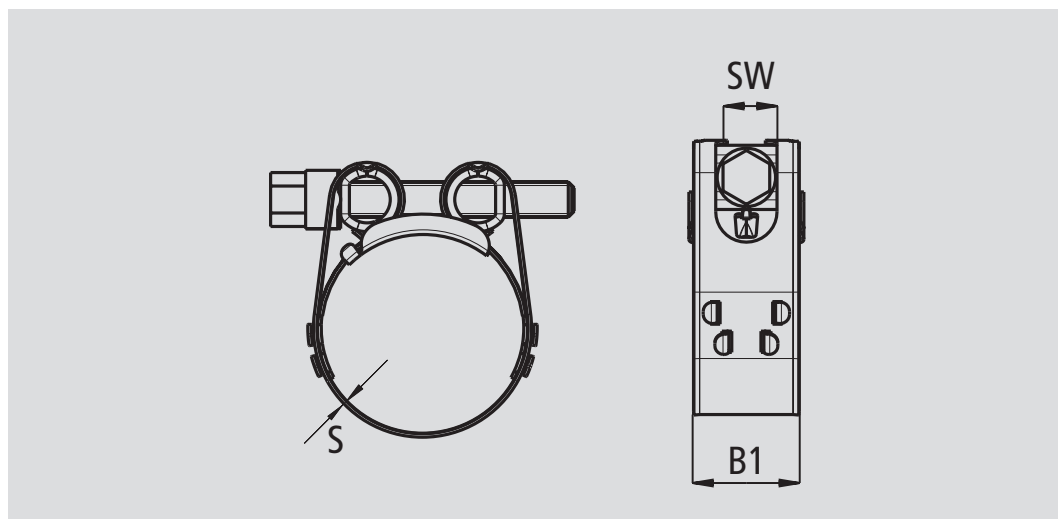
Materials

- Band: Stainless steel 1.4016
- Body, Screws: Steel zinc-plated (free of chrome VI)

Norm	
DIN 3017	

Heavy Duty Clamps

Range	mm	inch	SW	torque		Band width B1	Band thickness S	Weight	Type No.	
				Max. Nm.						
17-19		11/16-3/4	8	8		18	0.6	100	52	GBSM 19
19-21		3/4-13/16	8	8		18	0.6	100	52	GBSM 21
21-23		13/16-15/16	8	8		18	0.6	100	52	GBSM 23
23-25		15/16-1	8	8		18	0.6	100	52	GBSM 25
25-27		1-1 1/16	8	8		18	0.6	50	52	GBSM 27
27-29		1 1/16-1 1/8	8	8		18	0.6	50	52	GBSM 29
29-31		1 1/8-1 1/4	8	8		18	0.6	50	85	GBSM 31
31-34		1 1/4-1 5/16	8	8		18	0.6	50	85	GBSM 34
34-37		1 5/16-1 7/16	8	8		18	0.6	50	85	GBSM 37
37-40		1 7/16-1 9/16	8	8		18	0.6	50	85	GBSM 40
40-43		1 9/16-1 11/16	8	8		18	0.6	50	85	GBSM 43
43-47		1 11/16-1 7/8	10	10		20	0.8	25	85	GBSM 47
47-51		1 7/8-2	10	10		20	0.8	25	85	GBSM 51
51-55		2-2 3/16	10	10		20	0.8	25	115	GBSM 55
55-59		2 3/16-2 5/16	10	10		20	0.8	25	115	GBSM 59
59-63		2 5/16-2 1/2	10	10		20	0.8	25	115	GBSM 63
63-68		2 1/2-2 11/16	10	10		20	0.8	10	115	GBSM 68
68-73		2 11/16-2 7/8	13	20		25	1.0	10	153	GBSM 73
73-79		2 7/8-3 1/8	13	20		25	1.0	10	153	GBSM 79





Ball Valves and Throttle Valves








The ball and throttle valves are being used as shut-off valves in pipe systems.

At the ball valves a ball functions as shut-off device in the fitting, which opens and closes with a 90 degree rotation. Because of the full passage only low flow losses occur. The sealing is done by specific O-Rings which are attached between the ball and the body.

At the throttle valves, a cone shaped throttle will be pressed against the body. This seals the valve without any seal wear (almost no dead space on the through route). Shutting off is realized by pressure reduction due to ventilation of the output side, which leads to a safe disconnection.

Wide Selection

At **LUDECKE** you can get the perfect ball valves and throttle valves for various application areas

	Ball valves Sturdy-Version	Ball valves Light-Version	Double Ball Valves and Air hammer Ball Valves	Throttle Valves Standard-Version	Throttle Valves US-Version
					
Body:	Brass CW617N	Forged brass nickel-pl.	Brass CW617N	Mall. iron zinc pl.+yellow pass.	Mall. iron zinc pl.+yellow pass.
Sockets:	Brass CW617N	Forged brass nickel-pl.	Brass CW617N	-	-
Spindle and nut:	Brass MS 58 nickel-pl.	Brass MS 58 nickel-pl.	Brass MS 58 plain	-	-
Ball:	Brass MS 58 chromed	Brass MS 58 chromed	Brass MS 58 chromed	-	-
Seals:	PTFE*/FKM**	PTFE*/FKM**	PTFE glass fiber reinf.*/ Buna N**	Buna N/ Brass	Buna N
Handle:	Steel red lacquered	Steel zinc-plated coated with red PV see diagram	Steel red lacquered	Mall. iron zinc pl.+yellow pass.	Mall. iron zinc pl.+yellow pass.
Max. Working Press.:	PN 35 bar		PN 35 bar	PN 10 bar	PN 10 bar
Temperature:	-15°C – + 100°C	-15°C – + 120°C	-15°C – + 100°C	-15°C – + 80°C	-15°C – + 80°C
Thread:	DIN 2999	ISO 228	ISO 228	ISO 228	NPT, ANSI / ASME B1.20.1
Page:	272	272	273	274	275

*ball seals **spindle seals

Mall. iron zinc pl.+yellow pass. = Malleable iron zinc plated and yellow passivated

Ball Valves

Sturdy Version made of Brass Nickel-Plated

- High-quality ball valves for air, water, paint, solvents etc.
- Maintenance-free operation, long-living, sturdy and reliable, easy switching with full free passage, tested of tightness

• **For Industry, Construction and Civil Installations**

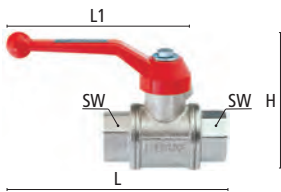
Materials

- Body and Sockets: Brass CW617N sandblasted and nickel-plated
- Spindle and Nut: Brass MS 58 nickel-plated
- Ball: Brass MS 58 chromed
- Ball seals: PTFE
- Spindle seals: FKM
- Handle: Steel red lacquered

Max. Working Pressure	Temperature	Thread	Media	
PN 35 bar	-15°C – +100°C	DIN 2999	Various	1

Ball Valves with female thread DIN 2999

Thread connection	L	SW	H	L1	Passage	Weight	Type No.
2 x R 1/4 f	50	25	78	95	8	296	KM 14 T
2 x R 3/8 f	60	25	78	95	10	302	KM 38 T
2 x R 1/2 f	75	26	82	95	15	390	KM 12 T
2 x R 3/4 f	80	32	90	104	20	682	KM 34 T
2 x R 1 f	90	39	97	104	25	876	KM 10 T
2 x R 2 f	140	70	170	178	50	3700	KM 20 T



Ball Valves

Light Version made of Brass Nickel-Plated

- Ball Valves with full passage and smaller sizes
- **For Construction, Industry, Craftmanship, Agriculture or Civil Installations**

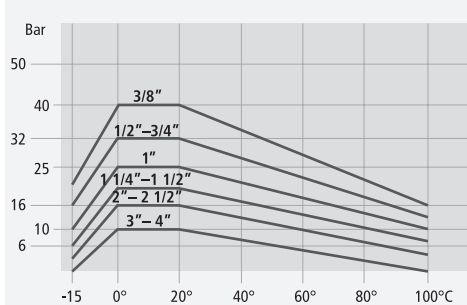
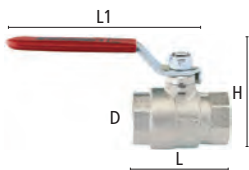
Materials

- Body and Sockets: Forged brass nickel-plated
- Spindle and Nut: Brass MS 58 nickel-plated
- Ball: Brass MS 58 chromed
- Ball seals: PTFE
- Spindle seals: FKM
- Handle: Steel zinc-plated and coated with red PVC

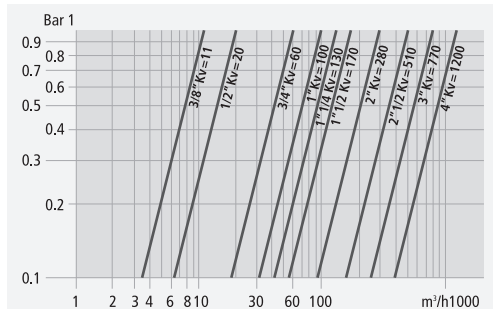
Max. Working Pressure	Temperature	Thread	Passage	Pressure drop	Media	
⊕ Diagramm	-15°C – +120°C	ISO 228	⊖ Diagramm	⊖ Diagramm	Various	1

Ball Valves with female thread ISO 228

Thread connection	L	H	D	L1	Passage	Weight	Type No.
2 x G 1/4 f	37	41	23	85	8	114	K 14 K
2 x G 3/8 f	42	37	24	85	10	132	K 38 K
2 x G 1/2 f	50	40	30	85	15	180	K 12 K
2 x G 3/4 f	58	48	38	105	20	306	K 34 K
2 x G 1 f	68	52	46	105	25	470	K 10 K
2 x G 1 1/4 f	80	63	58	130	32	813	K 54 K
2 x G 1 1/2 f	93	69	70	130	40	1262	K 15 K
2 x G 2 f	110	83	86	165	50	2100	K 20 K
2 x G 2 1/2 f	133	116	111	260	65	3799	K 25 K
2 x G 3 f	156	127	135	260	80	5625	K 30 K



Pressure and temperature diagram
For each ball valve, the nominal pressure PN depends on the type size and the temperature or vice versa.



Port capacity and pressure drop diagram
The Kv is the index port capacity, expressed in cubic meters per hour, causing a pressure drop of 1 bar with water at 15°C.

Double Ball Valves and Airhammer Ball Valves

Sturdy Version made of Brass Plain

- High quality, maintenance free, extremely robust valves made of forging brass
- With lever stop and ventilation, on request also without ventilation
- For compressed air in construction, on compressors and airhammers in the industry

Materials

- Body and Sockets: Brass CW617N
- Spindle and Nut: Brass MS 58 plain
- Ball: Brass MS 58 chromed
- Ball seals: PTFE glass fiber reinforced
- Spindle seals: Buna N
- Handle: Steel red lacquered

Max. Working Pressure	Temperature	Thread	Media	
PN 35 bar	-15°C – +100°C	ISO 228	Compressed air	1

Double Ball Valves

Connection*	Thread connection**	L	SW	H	Passage	Weight	Type No.
2 x G 3/4 m	G 1 f	115	41	105	13	1039	DKH 10
2 x KIGO 34 claw coupling	G 1 f	170	41	130	13	1350	DKH 10 G
2 x KIM 34 claw coupling	G 1 f	170	41	130	13	1435	DKH 10 M

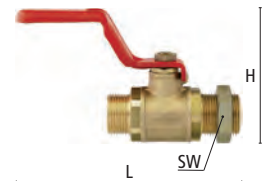
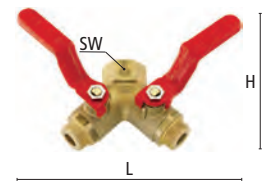
Airhammer Ball Valves, inlet thread with lock nut SW 32, outlet with inside cone 1:4

Connection*	Thread connection**	L	SW	H	Passage	Weight	Type No.
G 3/4 m	G 3/4 m	81	32	82	13	491	BKH 34
KIM 34 claw coupling	G 3/4 m	120	32	82	13	684	BKH 34 M

- On request we produce valves according to your drawings or samples with special connections and seals.
- Also available with T-Handle up to DN 25 e.g. KM 34 TBG
- Please order ball valves used in inspected plants separately, e.g. KM 12 T - AD (after TRB 404)

*Outlet

**Inlet



Throttle Valves

Standard Version

- Extremely robust valves of malleable iron, zinc-plated and yellow passivated (free of chrome VI)
- With brass throttle and handle of malleable iron
- Self sealing, under pressure the conical throttle is pressed against the body, so the valve gets tight, therefore no wear of seals
- With threads or claw couplings with rubber or brass seal
- When switching off pressure drop through exhaust from outlet side, therefore easy and safe coupling
- For compressed air in construction, on compressors, hose lines and air tools

Materials:

- Body, Handle: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- O-rings: Buna N/ Brass

Max. Working Pressure	Temperature	Thread	Claw Distance	Media	
PN 10 bar	-15°C – +80°C	ISO 228	42 mm	Compressed air	1

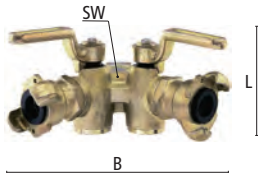
Single Valves with lever stop and exhaust

Inlet	Outlet	L	SW	B	Passage	System	Sealing	Weight	Type No.
G 1/2 f	G 3/4 m	77	41	100	15	without coupling		660	EH 12
G 3/4 f	G 3/4 m	70	41	100	17	without Coupling		610	EH 34
G 1 f	G 3/4 m	70	41	100	17	without Coupling		565	EH 10
G 1/2 f	KIGO 34	112	41	100	15	rigid Claw coupling	Buna N	819	EHG 12
G 3/4 f	KIGO 34	100	41	100	17	rigid Claw coupling	Buna N	761	EHG 34
G 1 f	KIGO 34	100	41	100	17	rigid Claw coupling	Buna N	726	EHG 10
G 1/2 f	KIM 34	122	41	100	15	rigid Claw coupling	Brass	859	EHM 12
G 3/4 f	KIM 34	115	41	100	17	rigid Claw coupling	Brass	808	EHM 34
G 1 f	KIM 34	115	41	100	17	rigid Claw coupling	Brass	759	EHM 10
swivelling G 3/4 f	KIG 34-DR	130	41	100	17	swivelling Claw coupling	Buna N	943	EHG 34-DR



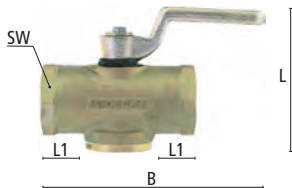
Double Valves with lever stop and exhaust

Inlet	Outlet	L	SW	B	Passage	System	Sealing	Weight	Type No.
G 3/4 f	2 x G 3/4 m	110	41	100	17	without Coupling		1146	DH 34
G 1 f	2 x G 3/4 m	110	41	100	17	without Coupling		1100	DH 10
G 3/4 f	2 x KIGO 34	170	41	100	17	rigid Claw coupling	Buna N	1466	DHG 34
G 1 f	2 x KIGO 34	170	41	100	17	rigid Claw coupling	Buna N	1438	DHG 10
G 3/4 f	2 x KIM 34	180	41	100	17	rigid Claw coupling	Brass	1545	DHM 34
G 1 f	2 x KIM 34	180	41	100	17	rigid Claw coupling	Brass	1503	DHM 10
swivelling G 3/4 f	2 x KIG 34-DR	225	41	100	17	swivelling Claw coupling	Buna N	1816	DHG 34-DR



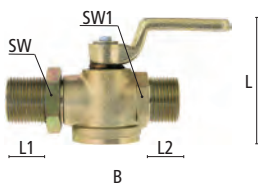
Straight Way Valves without lever stop, without exhaust, on request with exhaust

Inlet	Outlet	L	SW	B	L1	Passage	Weight	Type No.
G 1/2 f	G 1/2 f	80	37	96	18	13	700	DU 12
G 3/4 f	G 3/4 f	92	41	96	25	16	820	DU 34
G 1 f	G 1 f	92	41	96	13	16	770	DUL 10
G 1 f	G 1 f	87	43	125	18	20	1012	DUS 10



Airhammer Valves DIN 20030 without lever stop, without exhaust, inlet thread with lock nut SW 32/41

Inlet	Outlet	L	SW	B	L1	L2	SW1	Passage	Weight	Type No.
G 3/4 m	G 3/4 m, cone 1 : 4	110	32	85	34	17	32	13	632	BH 343
G 3/4 m	Rd 32 x 1/8 m, cone 1 : 3	140	32	95	34	17	32	13	773	BH 3486
G 1 m	G 1 m, cone 1 : 3	120	36	95	40	22	36	16	848	BH 106
G 1 m	Rd 32 x 1/8 m, cone 1 : 3	120	36	95	40	22	36	16	834	BH 326



Throttle Valves

US-Version

- Extremely robust valves of malleable iron, zinc-plated and yellow passivated (free of chrome VI)
- With brass throttle and handle of malleable iron
- Self sealing, under pressure the conical throttle is pressed against the body, so the valve gets tight, therefore no wear of seals
- With NTP-threads or claw couplings US-Type with rubber seal
- When switching off pressure drop through exhaust from outlet side, therefore easy and safe coupling
- For compressed air in construction, on compressors, hose lines and air tools

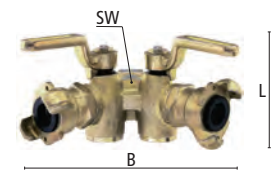
Materials:

- Body, handle: malleable iron, zinc-plated and yellow passivated (free of chrome VI)
- Sealing: Buna N

Max. Working Pressure	Temperature	Thread	Claw Distance	Media	
PN 10 bar	-15°C – +80°C	NPT, ANSI / ASME B1.20.1	41 mm	Compressed air	1

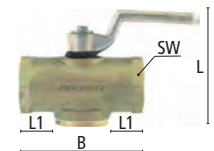
US-Double Valves with lever stop and exhaust

Inlet	Outlet	L	SW	B	Passage	System	Sealing	Weight	Type No.
NPT 3/4 f	NPT 2 x 3/4 m	120	41	100	17	without Coupling		1170	DHA 34
NPT 1 f	NPT 2 x 3/4 m	120	41	100	17	without Coupling		1130	DHA 10
NPT 3/4 f	2 x KIA 34	205	41	100	17	Rigide Claw coupling	Buna N	1570	DHGA 34
NPT 1 f	2 x KIA 34	205	41	100	17	Rigide Claw coupling	Buna N	1530	DHGA 10



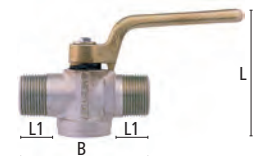
US-Straight-Way Valves without lever stop, without exhaust, on request with exhaust

Inlet	Outlet	L	SW	B	L1	Passage	Weight	Type No.
NPT 1/2 f	NPT 1/2 f	80	32	80	16	13	530	ADI 12
NPT 3/4 f	NPT 3/4 f	95	41	96	17	16	905	ADI 34
NPT 1 f	NPT 1 f	95	41	96	18	16	850	ADI 10



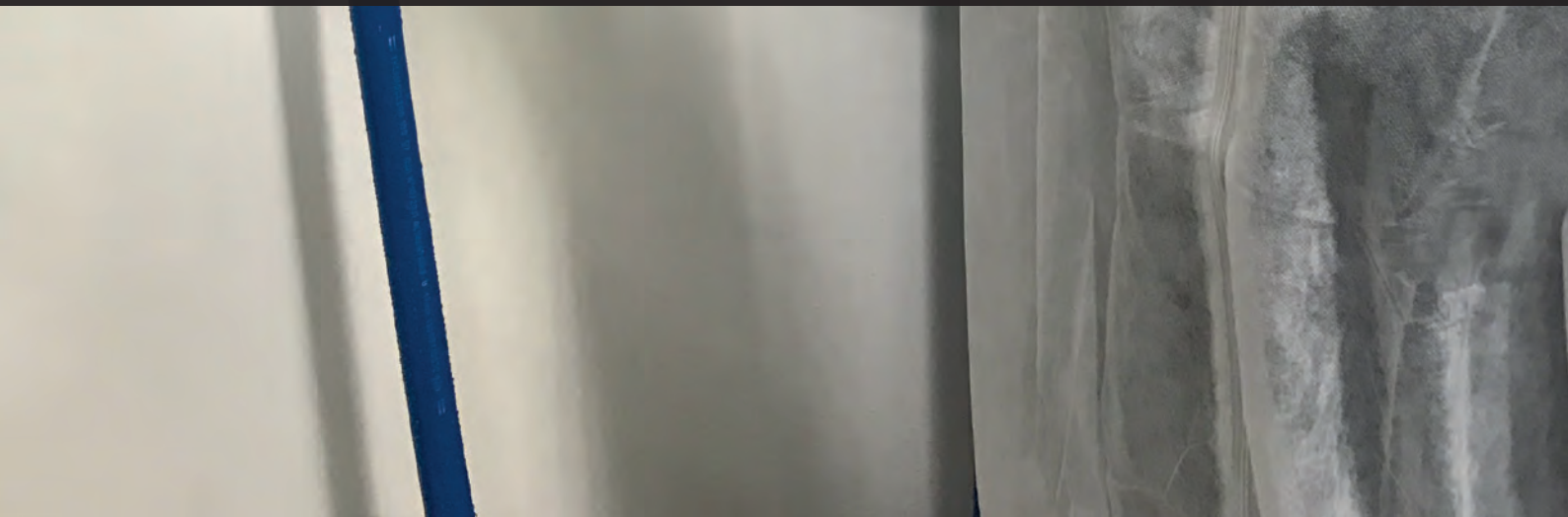
US-Straight-Way Valves without lever stop, without exhaust, on request with exhaust

Inlet	Outlet	L	SW	B	L1	Passage	Weight	Type No.
NPT 1/2 m	NPT 1/2 m	85	25	80	17	13	430	ADA 12
NPT 3/4 m	NPT 3/4 m	95	37	96	18	16	700	ADA 34
NPT 1 m	NPT 1 m	95	37	96	22	16	750	ADA 10





Processing Industry





Quick Connect Couplings



Temperature Regulation Quick Connect Couplings



Quick Connect Couplings and Fittings for Cleaning Applications



Claw Couplings



Chemical and Industrial Fittings



Fittings for Snow Pump Installations



Water Fittings



Hose Clamps and Hose Clips



Clean Connect
by LUDECKE

Snow Master
by LUDECKE

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High Quality Coupling Systems for Applications with Elevated Hygienic Requirements and for Lines with Aggressive Media

**Clean
Connect**
by **LUDECKE**



In applications with specific hygienic standards or in lines with aggressive media (i.e. gaseous, chemicals, pharmaceuticals or varnish products), premium couplings and fittings are required. These products allow a safe and reliable process within the connected system machinery or tool.

The **LUDECKE** product portfolio made of stainless steel 1.4305, 1.4401 and 1.4404 (1.4571 on request), allows the utilization in various applications and markets, such as:



- Pharmaceutical and medical technology
- Chemical technology
- Food & beverage industry
- Temperature regulation and plastics industry
- Clean room applications
- Pneumatic applications
- High quality control, measurement and regulation technology
- Snow making machines
- Machine and plant manufacturing

Especially for high purity surroundings, we offer materials and surfaces which are easy to clean and exempt of notches or grooves.





Wide Selection

<p>Quick Connect Couplings</p> 	<p>Temperature Regulation Quick Connect Couplings</p> 	<p>NEW! Quick Connect Couplings and Fittings for Cleaning Applications</p> 	<p>Claw Couplings</p> 
<p>Chemical and Industrial Fittings</p> 	<p>Fittings for Snow Pump Installations</p> 	<p>Water Fittings</p> 	<p>Hose Clamps and Hose Clips</p> 

A Superior Product Range for the Processing Industry

From the classic claw couplings and quick connect couplings up to high pressure quick couplings - you will find the right product for nearly any application.





Quick Connect Couplings

The Right System for Every Area of Application

**Clean
Connect**
by **LUDECKE**



A service free and efficient connection is the basis for all manufacturing processes.

The Original **LUDECKE** CleanConnect quick connect couplings guarantee an easy and safe connection and disconnection of tools, machines and hoses whilst offering an ultimate sealing performance.

The **LUDECKE** quick connect coupling systems made of stainless steel include a wide range of micro, mini, standard and industrial quick connect couplings. With the **OptiFlow-Line** we also offer a series which is characterized by its high energy efficiency.

Advantages

- High-quality materials (Stainless steel 1.4305 or 1.4404)
- Robust, reliable, absolutely tight and durable
- Easy to connect
- Different sizes, connection and valve types as well as surface quality (knurled sleeve / smooth sleeve)
- **OptiFlow-Line**: High energy efficiency because of low pressure drop and efficient valve technology (page 54/ 298)
- **NEW**: Compressed air range for the food industry

Connected in Seconds

All **LUDECKE** quick connect couplings for the processing industry offer the same typical one-hand quick connect coupling function.





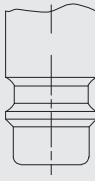
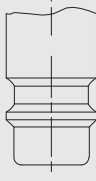
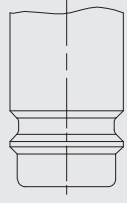
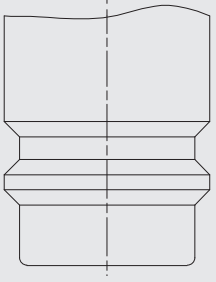












One-hand operation: Push the plug into the coupling and it locks automatically.



To disconnect, slide the sleeve back, whilst the locking mechanism opens automatically and releases the plug.

Overview Quick Connect Couplings made of Stainless Steel

OptiFlow-Line

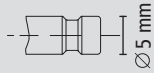
Series	ESMCE DN 2.7*	ESME DN 5*	ESE DN 7.2*	ESIE DN 7.8*	ESIGE DN 10*	ESGE DN 19
Plug Profile (original size)	 Ø 5 mm	 Ø 9 mm	 Ø 12 mm	 Ø 12 mm	 Ø 15 mm	 Ø 27 mm
						
						
Materials:						
Body:	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4404
Sleeve:	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4404
Valve body:	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4404
Valve:	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4404
Springs, Retaining ring:	Stainless Steel 1.4310 Stainless Steel 1.4571	Stainless Steel 1.4310 Stainless Steel 1.4571	Stainless Steel 1.4310 Stainless Steel 1.4571	Stainless Steel 1.4310 Stainless Steel 1.4571	Stainless Steel 1.4310 Stainless Steel 1.4571	Stainless Steel 1.4571
Balls:	Stainless Steel 1.3541 Stainless Steel 1.4404	Stainless Steel 1.3541 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4034 Stainless Steel 1.4404	Stainless Steel 1.4034 Stainless Steel 1.4404	Stainless Steel 1.4404
O-rings:	FKM	FKM	FKM	FKM	FKM	FKM
Special seals for other media on request:	EPDM, FFKM	EPDM, FFKM	EPDM, FFKM	EPDM, FFKM	Buna N	EPDM, FFKM
Plug:	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4404
Max. Working Pressure:	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar
Temperature**:	-15°C – + 150°C	-15°C – + 200°C	-15°C – + 200°C	-15°C – + 200°C	-15°C – + 150°C	-15°C – + 150°C
Thread Types:	ISO 228/ DIN 13	ISO 22/ DIN 13	ISO 228	ISO 228	ISO 228	ISO 228
Flow Capacity: (Air – 6 bar/ 0.5 bar pressure drop)	165 l/min	510 l/min	1150 l/min	1850 l/min	2150 l/min	8000 l/min
Type of Valve: single shut-off:	single shut-off/ double shut-off	single shut-off/ double shut-off	single shut-off/ double shut-off	single shut-off/ double shut-off	single shut-off/ double shut-off	single shut-off/ double shut-off
Operation:	One-hand	One-hand	One-hand	One-hand	One-hand	One-hand
Page:	284	289	294	298	300	302

*This stainless steel serie is available in two versions on request (1.4305 and 1.4404). Therefore, also component materials are different of Springs/Retaining Rings, Balls/Pins as well as plugs
Example: Body, etc.: Stainless Steel 1.4305 → Springs/Retaining ring: Stainless Steel 1.4310 → Balls: Stainless steel 1.3541 → Plugs: 1.4305, but: Body, etc.: Stainless Steel 1.4404 → Springs/Retaining rings: Stainless Steel 1.4571 → Balls: Stainless steel 1.4404 → Plugs: Stainless steel 1.4404 **Max. Temperature resistance is subject to the suitable media and sealing material

Micro Quick Connect Couplings

Series ESMCE single shut-off

DN 2.7



Plug Profile (original size)

Clean Connect
by LUDECKE



- High quality one-hand quick connect couplings with smallest dimensions made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Several fields of application, above all for liquid media in pharmacy, medical industry, chemical industry, food & beverage applications, clean-room applications, for high quality measure, control and regulation technique or hygienic requirements
- Maximum working temperature subject to the chosen media and sealing material

Materials

- Body, sleeve, valve body, valve, plug: Stainless steel 1.4305
- Spring, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- O-rings: FKM (EPDM or FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of Valve	Media	Area	
PN 35 bar	-15°C – +150°C	2.7	ISO 228 / DIN 13	165 l/min	One-hand	Single shut-off	different	Europe	Coupl. 1/ Plug 5

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
M 5 m	26	9	10.5	5	9	ESMCE 5 A
G 1/8 m	28	11	10.5	7	12	ESMCE 18 A

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
M 5 f	25	9	10.5	5	10	ESMCE 5 I
G 1/8 f	28	12	10.5	7	14	ESMCE 18 I

Couplings with Hose stem

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 3	34.5	10.5	13	9	ESMCE 3 T
Hose i.D. 4	34.5	10.5	13	10	ESMCE 4 T
Hose i.D. 5	34.5	10.5	13	10	ESMCE 5 T

For hose clips type HSE (© page 416)

Couplings with hose squeeze nut

Hose connection	L	SW	D	Weight	Type No.
Hose 3x4	34	9	10.5	15	ESMCE 34 TQ
Hose 3x5	34	9	10.5	15	ESMCE 3 TQ
Hose 4x6	34	9	10.5	15	ESMCE 4 TQ

Couplings with hose squeeze nut and bulkhead screwing

Hose connection	L	SW	D	L1	SW1	G	Weight	Type No.
Hose 3x4	45	12	10.5	17	11	M 7x0.5 m	26	ESMCE 34 TQSV
Hose 3x5	45	12	10.5	17	11	M 7x0.5 m	26	ESMCE 35 TQSV
Hose 4x6	45	12	10.5	17	12	M 8x0.5 m	26	ESMCE 4 TQSV

Couplings with bulkhead screwing

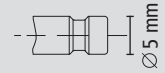
Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No.
Hose i.D. 3	51	12	10.5	13	17	11	M 7x0.5 m	24	ESMCE 3 TSV
Hose i.D. 4	51	12	10.5	13	17	11	M 7x0.5 m	24	ESMCE 4 TSV
Hose i.D. 5	51	12	10.5	13	17	12	M 8x0.5 m	24	ESMCE 5 TSV

For hose clips type HSE (© page 416)

Micro Quick Connect Couplings

single shut-off Series ESMCE

DN2.7



Plug Profile (original size)

Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
M 5 m	18	7	5	10	3	ESMCE 5 NA
G 1/8 m	20	11	7	10	6	ESMCE 18 NA

Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
M 5 f	17	7	5	10	3	ESMCE 5 NI
G 1/8 f	19	12	7	10	6	ESMCE 18 NI

Plugs with hose stem

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 3	24	7	13	10	2	ESMCE 3 S
Hose i.D. 4	24	7	13	10	3	ESMCE 4 S
Hose i.D. 5	24	9	13	10	3	ESMCE 5 S

For hose clips type HSE (☺ page 416)

Plugs with hose squeeze nut

Hose connection	L	SW	L1	Weight	Type No.
Hose 3x4	25	8	10	12	ESMCE 34 SQ
Hose 3x5	25	8	10	12	ESMCE 3 SQ
Hose 4x6	25	8	10	12	ESMCE 4 SQ

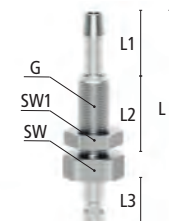
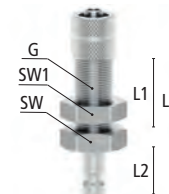
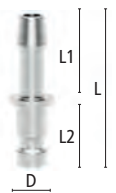
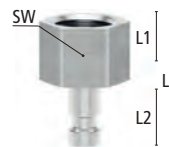
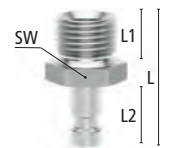
Plugs with hose squeeze nut and bulkhead screwing

Hose connection	L	SW	L1	L2	SW1	G	Weight	Type No.
Hose 3x4	38	12	17	10	11	M 7x0.5 m	23	ESMCE 34 SQSV
Hose 3x5	38	12	17	10	11	M 7x0.5 m	23	ESMCE 35 SQSV
Hose 4x6	38	12	17	10	12	M 8x0.5 m	23	ESMCE 4 SQSV

Plugs with bulkhead screwing

Hose connection	L	SW	L1	L2	L3	SW1	G	Weight	Type No.
Hose i.D. 3	45	12	13	17	10	11	M 7x0.5 m	21	ESMCE 3 SSV
Hose i.D. 4	45	12	13	17	10	11	M 7x0.5 m	21	ESMCE 4 SSV
Hose i.D. 5	45	12	13	17	10	12	M 8x0.5 m	21	ESMCE 5 SSV

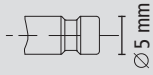
For hose clips type HSE (☺ page 416)



Micro Quick Connect Couplings

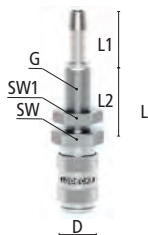
Series ESMCE double shut-off

DN 2.7



Plug Profile (original size)

Clean Connect
by LUDECKE



- High quality one-hand quick connect couplings with smallest dimensions made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Double shut-off to avoid the escape of media when disconnecting. Robust, safe and reliable.
- Attention: Couplings can be connected with straight-through plugs DN 2.7, but shut-off plugs cannot be connected with standard couplings DN 2.7
- Several fields of application, above all for liquid media in pharmacy, medical industry, chemical industry, food & beverage applications, clean-room applications, for high quality measure, control and regulation technique or hygienic requirements
- Maximum working temperature subject to the chosen media and sealing material

Materials

- Body, sleeve, valve body, valve, plug: Stainless steel 1.4305
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- O-rings: FKM (EPDM or FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of Valve	Media	Area	
PN 35 bar	-15°C – +150°C	2.7	ISO 228 / DIN 13	150 L/min	One-hand	Double shut-off	different	Europe	Coupl. 1/ Plug 5

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
M 5 m	26	9	10.5	5	9	ESMCE 5 AAB
G 1/8 m	28	11	10.5	7	12	ESMCE 18 AAB

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
M 5 f	25	9	10.5	5	10	ESMCE 5 IAB
G 1/8 f	28	12	10.5	7	14	ESMCE 18 IAB

Couplings with hose stem

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 3	34.5	10.5	13	9	ESMCE 3 TAB
Hose i.D. 4	34.5	10.5	13	10	ESMCE 4 TAB
Hose i.D. 5	34.5	10.5	13	10	ESMCE 5 TAB

For hose clips type HSE (© page 416)

Couplings with hose squeeze nut

Hose connection	L	SW	D	Weight	Type No.
Hose 3x4	34	9	10.5	15	ESMCE 34 TQAB
Hose 3x5	34	9	10.5	15	ESMCE 3 TQAB
Hose 4x6	34	9	10.5	15	ESMCE 4 TQAB

Couplings with hose squeeze nut and bulkhead screwing

Hose connection	L	SW	D	L1	SW1	G	Weight	Type No.
Hose 3x4	45	12	10.5	17	11	M 7x0.5 m	26	ESMCE 34 TQSVAB
Hose 3x5	45	12	10.5	17	11	M 7x0.5 m	26	ESMCE 35 TQSVAB
Hose 4x6	45	12	10.5	17	12	M 8x0.5 m	26	ESMCE 4 TQSVAB

Couplings with bulkhead screwing

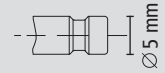
Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No.
Hose i.D. 3	51	12	10.5	13	17	11	M 7x0.5 m	24	ESMCE 3 TSVAB
Hose i.D. 4	51	12	10.5	13	17	11	M 7x0.5 m	24	ESMCE 4 TSVAB
Hose i.D. 5	51	12	10.5	13	17	12	M 8x0.5 m	24	ESMCE 5 TSVAB

For hose clips type HSE (© page 416)

Micro Quick Connect Couplings

double shut-off Series ESMCE

DN2.7



Plug Profile (original size)

Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
M 5 m	28	9	5	10	10	ESMCE 5 NAAB
G 1/8 m	30	11	7	10	12	ESMCE 18 NAAB

Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
M 5 f	26.5	9	5	10	11	ESMCE 5 NIAB
G 1/8 f	30	12	7	10	14	ESMCE 18 NIAB

Plugs with hose stem

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 3	36.5	9	13	10	9	ESMCE 3 SAB
Hose i.D. 4	36.5	9	13	10	10	ESMCE 4 SAB
Hose i.D. 5	36.5	9	13	10	10	ESMCE 5 SAB

For hose clips type HSE (☺ page 416)

Plugs with hose squeeze nut

Hose connection	L	SW	L1	Weight	Type No.
Hose 3x4	36	9	10	10	ESMCE 34 SQAB
Hose 3x5	36	9	10	10	ESMCE 3 SQAB
Hose 4x6	36	9	10	11	ESMCE 4 SQAB

Plugs with hose squeeze nut and bulkhead screwing

Hose connection	L	SW	L1	L2	SW1	G	Weight	Type No.
Hose 3x4	47	12	17	10	11	M 7x0.5 m	13	ESMCE 34 SQSVAB
Hose 3x5	47	12	17	10	11	M 7x0.5 m	13	ESMCE 35 SQSVAB
Hose 4x6	47	12	17	10	12	M 8x0.5 m	17	ESMCE 4 SQSVAB

Plugs with bulkhead screwing

Hose connection	L	SW	L1	L2	L3	SW1	G	Weight	Type No.
Hose i.D. 3	53	12	13	17	10	11	M 7x0.5 m	14	ESMCE 3 SSVAB
Hose i.D. 4	53	12	13	17	10	11	M 7x0.5 m	14	ESMCE 4 SSVAB
Hose i.D. 5	53	12	13	17	10	12	M 8x0.5 m	16	ESMCE 5 SSVAB

For hose clips type HSE (☺ page 416)





Mini Quick Connect Couplings

single shut-off Series ESME

- Miniature one-hand quick connect couplings made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- For the use of compressed air at demanding pureness and hygiene regulations or for applications with most different media (gases, chemicals, lacquers, pharmaceuticals)
- Numerous application sectors for pharmacy, chemistry, medical engineering, food industry, clean-rooms, high-grade pneumatic applications
- Maximum operation temperature subject to media used and sealing material

Materials

- Body, sleeve, valve body, valve, plug: Stainless steel 1.4305
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- O-rings: FKM (EPDM or FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of Valve	Media	Area	
PN 35 bar	-15°C – +200°C	5	ISO 228 / DIN 13	510 l/min	One-hand	Single shut-off	different	Europe	Coupl. 1/ Plug 5

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/8 m	36	14	16	7	27	ESME 18 A
G 1/4 m	38	17	16	9	36	ESME 14 A
G 3/8 m	38	19	16	9	42	ESME 38 A
M 12x1.5 m	38	14	16	9	30	ESME 1215 A
M 14x1.5 m	38	17	16	9	38	ESME 1415 A

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/8 f	38	14	16	9	31	ESME 18 I
G 1/4 f	38	17	16	9	31	ESME 14 I
G 3/8 f	38	19	16	9	43	ESME 38 I
M 12x1.5 f	38	17	16	9	41	ESME 1215 I
M 14x1.5 f	38	17	16	9	38	ESME 1415 I

Couplings with hose stem

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 4	47	14	16	17	27	ESME 4 T
Hose i.D. 6	47	14	16	17	28	ESME 6 T
Hose i.D. 8	47	14	16	17	28	ESME 8 T
Hose i.D. 9	47	14	16	17	30	ESME 9 T
Hose i.D. 10	47	14	16	17	30	ESME 10 T

For hose clips type HSE (☺ page 416)

Couplings with hose squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No.
Hose 4x6	43	14	16	12	34	ESME 4 TQ
Hose 6x8	43	14	16	14	36	ESME 6 TQ

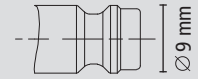
Couplings with hose squeeze nut and bulkhead screwing

Hose connection	L	SW	D	L1	SW1	SW2	G	Weight	Type No.
Hose 4x6	54	14	16	18	12	12	M 10x1 m	41	ESME 4 TQSV
Hose 6x8	54	14	16	18	14	14	M 12x1 m	49	ESME 6 TQSV

Special versions on request.

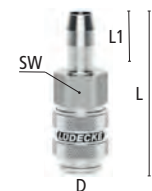


DN5



Plug Profile (original size)

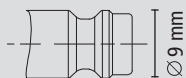
Clean Connect
by LUDECKE



Mini Quick Connect Couplings

Series ESME single shut-off

DN5



Plug Profile (original size)



Couplings with bulkhead screwing

Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No.
Hose i.D. 5	60	17	16	17	14	17	M 12x1 m	45	ESME 5 TSV
Hose i.D. 6	60	17	16	17	14	17	M 12x1 m	45	ESME 6 TSV
Hose i.D. 8	60	17	16	17	14	17	M 12x1 m	45	ESME 8 TSV

For hose clips type HSE (☺ page 416)

Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m	25	14	7	14	11	ESME 18 NA
G 1/4 m	28	17	9	14	19	ESME 14 NA
G 3/8 m	28	19	9	14	21	ESME 38 NA
M 10x1 m	25	14	7	14	11	ESME 101 NA
M 12x1.5 m	28	17	10	14	17	ESME 1215 NA
M 14x1.5 m	28	17	10	14	20	ESME 1415 NA

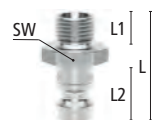
Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	25	14	8	14	14	ESME 18 NI
G 1/4 f	25	17	9	14	15	ESME 14 NI
G 3/8 f	26	19	9	14	19	ESME 38 NI
M 10x1 f	26	14	9	14	18	ESME 101 NI
M 12x1.5 f	27	17	10	14	22	ESME 1215 NI
M 14x1.5 f	27	17	10	14	19	ESME 1415 NI

Plugs with hose stem

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 4	32	9	17	14	7	ESME 4 S
Hose i.D. 5	32	9	17	14	8	ESME 5 S
Hose i.D. 6	32	9	17	14	9	ESME 6 S
Hose i.D. 8	32	9	17	14	9	ESME 8 S
Hose i.D. 9	33	10	17	14	9	ESME 9 S
Hose i.D. 10	33	12	17	14	12	ESME 10 S

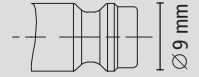
For hose clips type HSE (☺ page 416)



Mini Quick Connect Couplings

single shut-off Series ESME

DN5



Plug Profile (original size)

Plugs with hose squeeze nut

Hose connection	L	SW	L1	SW1	Weight	Type No.
Hose 4x6	32	12	14	12	17	ESME 4 SQ
Hose 6x8	32	14	14	14	21	ESME 6 SQ

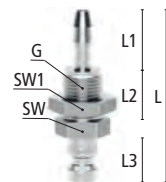
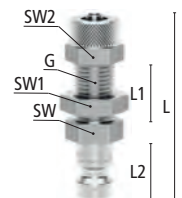
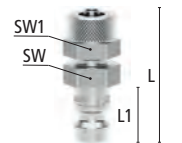
Plugs with hose squeeze nut and bulkhead screwing

Hose connection	L	SW	L1	L2	SW1	SW2	G	Weight	Type No.
Hose 4x6	44	12	18	14	14	14	M 10x1 m	27	ESME 4 SQSV
Hose 6x8	44	14	18	14	17	14	M 12x1 m	35	ESME 6 SQSV

Plugs with bulkhead screwing

Hose connection	L	SW	L1	L2	L3	SW1	G	Weight	Type No.
Hose i.D. 5	50	14	17	14	14	17	M 12x1 m	28	ESME 5 SSV
Hose i.D. 6	50	14	17	14	14	17	M 12x1 m	28	ESME 6 SSV
Hose i.D. 8	50	14	17	14	14	17	M 12x1 m	28	ESME 8 SSV

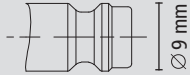
For hose clips type HSE (© page 416)



Mini Quick Connect Couplings

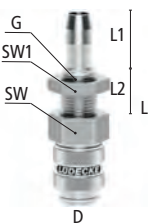
Series ESME double shut-off

DN5



Plug Profile (original size)

Clean Connect
by **LUDECKE**



- Miniature one-hand quick connection couplings made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Double shut-off to avoid leaking of media when disconnecting. Robust, safe and reliable.
- Attention: Couplings can be connected with straight-through plugs DN 5, but valved plugs cannot be connected with standard couplings DN 5
- Numerous application sectors, above all for liquid media in pharmacy, chemistry, food industry, clean-rooms, high-grade control, measuring and regulation technology, at demanding purity and hygiene regulations
- Maximum operation temperature subject to media used and sealing material

Materials

- Body, sleeve, valve body, valve, plug: Stainless steel 1.4305
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- O-rings: FKM (EPDM or FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of Valve	Media	Area	
PN 35 bar	-15°C – +200°C	5	ISO 228 / DIN 13	330 l/min	One-hand	Double shut-off	different	Europe	Coupl. 1/ Plug 5

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/8 m	36	14	16	7	28	ESME 18 AAB
G 1/4 m	38	17	16	9	37	ESME 14 AAB
G 3/8 m	38	19	16	9	43	ESME 38 AAB

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/8 f	38	14	16	9	32	ESME 18 IAB
G 1/4 f	38	17	16	9	32	ESME 14 IAB
G 3/8 f	38	19	16	9	44	ESME 38 IAB

Couplings with hose stem

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 4	47	14	16	17	28	ESME 4 TAB
Hose i.D. 6	47	14	16	17	29	ESME 6 TAB
Hose i.D. 8	47	14	16	17	29	ESME 8 TAB
Hose i.D. 9	47	14	16	17	31	ESME 9 TAB
Hose i.D. 10	47	14	16	17	31	ESME 10 TAB

For hose clips type HSE (☺ page 416)

Couplings with hose squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No.
Hose 4x6	43	14	16	12	35	ESME 4 TQAB
Hose 6x8	43	14	16	14	37	ESME 6 TQAB

Couplings with hose squeeze nut and bulkhead screwing

Hose connection	L	SW	D	L1	SW1	SW2	G	Weight	Type No.
Hose 4x6	54	14	16	18	12	12	M 10x1 m	42	ESME 4 TQSVAB
Hose 6x8	54	14	16	18	14	14	M 12x1 m	50	ESME 6 TQSVAB

Couplings with bulkhead screwing

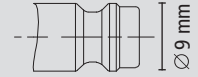
Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No.
Hose i.D. 5	60	17	16	17	14	17	M 12x1 m	46	ESME 5 TSVAB
Hose i.D. 6	60	17	16	17	14	17	M 12x1 m	46	ESME 6 TSVAB
Hose i.D. 8	60	17	16	17	14	17	M 12x1 m	47	ESME 8 TSVAB

For hose clips type HSE (☺ page 416)

Mini Quick Connect Couplings

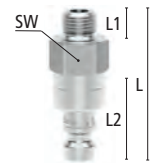
double shut-off Series ESME

DN5



Plug Profile (original size)

Clean Connect
by **LUDECKE**



Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m	40	14	7	14	22	ESME 18 NAAB
G 1/4 m	42	17	9	14	31	ESME 14 NAAB
G 3/8 m	42	19	9	14	37	ESME 38 NAAB
M 14x1.5 m	42	17	9	14	33	ESME 1415 NAAB

Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	42	14	9	14	26	ESME 18 NIAB
G 1/4 f	42	17	9	14	35	ESME 14 NIAB
G 3/8 f	42	19	9	14	37	ESME 38 NIAB
M 10x1 f	42	14	9	14	26	ESME 101 NIAB
M 12x1.5 f	42	17	9	14	36	ESME 1215 NIAB
M 14x1.5 f	42	17	9	14	33	ESME 1415 NIAB

Plugs with hose stem

Hose connection	L	SW	L1	L2	Weight	Type No.
Hose i.D. 4	50	14	17	14	21	ESME 4 SAB
Hose i.D. 6	50	14	17	14	22	ESME 6 SAB
Hose i.D. 8	50	14	17	14	23	ESME 8 SAB
Hose i.D. 9	50	14	17	14	23	ESME 9 SAB
Hose i.D. 10	50	14	17	14	24	ESME 10 SAB

For hose clips type HSE (© page 416)

Plugs with hose squeeze nut

Hose connection	L	SW	L1	SW1	Weight	Type No.
Hose 4x6	46	14	14	12	29	ESME 4 SQAB
Hose 6x8	46	14	14	14	31	ESME 6 SQAB

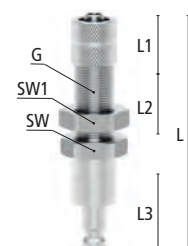
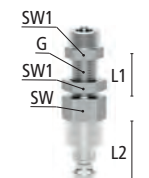
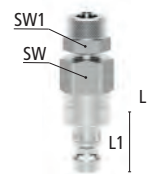
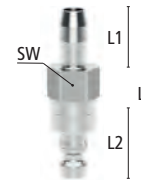
Plugs with hose squeeze nut and bulkhead screwing

Hose connection	L	SW	L1	L2	SW1	SW2	G	Weight	Type No.
Hose 4x6	58	14	18	14	14	12	M 10x1 m	36	ESME 4 SQSVAB
Hose 6x8	58	14	18	14	17	14	M 12x1 m	43	ESME 6 SQSVAB

Plugs with bulkhead screwing

Hose connection	L	SW	L1	L2	L3	SW1	G	Weight	Type No.
Hose i.D. 5	63	17	14	14	14	17	M 12x1 m	38	ESME 5 SSVAB
Hose i.D. 6	63	17	14	14	14	17	M 12x1 m	38	ESME 6 SSVAB
Hose i.D. 8	63	17	14	14	14	17	M 12x1 m	38	ESME 8 SSVAB

For hose clips type HSE (© page 416)



Quick Connect Couplings

Series ESE single shut-off

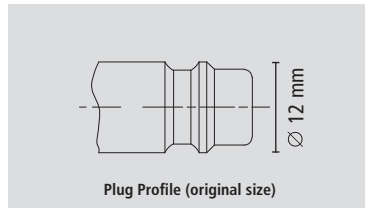
DN 7.2

- Standard one-hand quick connect couplings made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- For the use of compressed air at demanding pureness and hygiene regulations or for applications with most different media (gases, chemicals, lacquers, pharmaceuticals)
- Numerous application sectors in pharmacy, chemistry, medical engineering, food industry, clean-rooms, high-grade pneumatic applications
- Maximum operation temperature subject to media used and sealing material

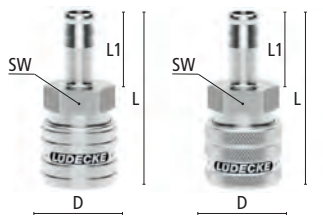
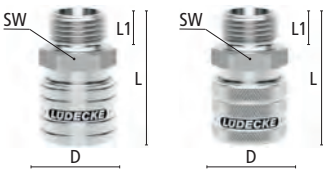
Materials

- Body, sleeve, valve body, valve, pins, plug: Stainless steel 1.4305
- Springs, retaining ring: Stainless steel 1.4310
- O-rings: FKM (EPDM or FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of Valve	Media	Area	
PN 35 bar	-15°C – +200°C	7.2	ISO 228	1150 l/min	One-hand	single shut-off	different	worldwide	Coupl. 1/ Plug 5



Clean Connect
by **LUDECKE**



Couplings with parallel male thread

Thread connection	L	SW	D	L1	Weight	sleeve	
						Type No. flat	Type No. knurled
G 1/4 m	41	22	27	9	82	ESEG 14 A	ESER 14 A
G 3/8 m	42	22	27	10	82	ESEG 38 A	ESER 38 A
G 1/2 m	44	24	27	12	95	ESEG 12 A	ESER 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	sleeve	
						Type No. flat	Type No. knurled
G 1/4 f	41.5	22	27	10.5	83	ESEG 14 I	ESER 14 I
G 3/8 f	41.5	22	27	10.5	83	ESEG 38 I	ESER 38 I
G 1/2 f	43	24	27	12	92	ESEG 12 I	ESER 12 I

Couplings with hose stem

Hose connection	L	SW	D	L1	Weight	sleeve	
						Type No. flat	Type No. knurled
Hose i.D. 6	56	22	27	25	92	ESEG 6 T	ESER 6 T
Hose i.D. 8	56	22	27	25	92	ESEG 8 T	ESER 8 T
Hose i.D. 9	56	22	27	25	92	ESEG 9 T	ESER 9 T
Hose i.D. 10	56	22	27	25	93	ESEG 10 T	ESER 10 T
Hose i.D. 13	56	22	27	25	95	ESEG 13 T	ESER 13 T

For hose clips type HSE (☺ page 416)

NEW! Couplings with bulkhead screwing

Hose connection	L	SW	D	L1	SW1	Weight	Type No.
Hose 8x12	48	22	27	9.5	17	107	ESEG 812 TQ

O-rings approved for the food industry

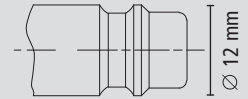
Available either with ergonomically flat sleeve contour to avoid dirt nests for demanding hygiene regulations or with handy knurled sleeve



Quick Connect Couplings

single shut-off Series ESE

DN7.2



Plug Profile (original size)

Clean Connect
by **LUDECKE**



Plug with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 m	33	17	9	20	22	ESE 14 NA
G 3/8 m	33	19	9	20	25	ESE 38 NA
G 1/2 m	37	24	12	20	45	ESE 12 NA

Plug with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	32	17	10	20	20	ESE 14 NI
G 3/8 f	32	19	10	20	25	ESE 38 NI
G 1/2 f	35	24	12	20	36	ESE 12 NI

Plug with hose stem

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	46	12	25	20	13	ESE 6 S
Hose i.D. 8	46	12	25	20	15	ESE 8 S
Hose i.D. 9	46	12	25	20	14	ESE 9 S
Hose i.D. 10	46	12	25	20	17	ESE 10 S
Hose i.D. 13	46	12	25	20	24	ESE 13 S

For hose clips type HSE (© page 416)

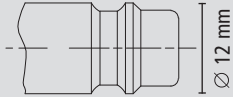
NEW! **Plugs with bulkhead screwing**

Hose connection	L	SW	L1	L2	SW1	Weight	Type No.
Hose 8x12	42	17	9.5	20	19	51	ESE 812 SQ

Quick Connect Couplings

Series ESE double shut-off

DN 7.2



Plug Profile (original size)

Clean Connect
by **LUDECKE**

- Standard one-hand quick connect couplings made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Double shut-off to avoid leaking of media when disconnecting. Robust, safe and reliable
- Attention: Couplings can be connected with straight-through plugs DN 7.2, but shut-off plugs cannot be connected with standard couplings DN 7.2
- Numerous application sectors, above all for liquid media in pharmacy, chemistry, medical engineering, food industry, clean-rooms, high-grade control, measuring and regulation technology, at demanding pureness and hygiene regulations
- Maximum operation temperature subject to media used sealing material

Materials

- Body, sleeve, valve body, valve, pins, plug: Stainless steel 1.4305
- Springs, retaining rings: Stainless Steel 1.4310
- O-rings: FKM (EPDM or FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of Valve	Media	Area	
PN 35 bar	-15°C – +200°C	7.2	ISO 228	660 l/min	One-hand	double shut-off	different	worldwide	Coupl. 1/ Plug 5

Couplings with parallel male thread

Thread connection	L	SW	D	L1	Weight	sleeve	
						Type No. flat	Type No. knurled
G 1/4 m	41	22	27	9	82	ESEG 14 AAB	ESER 14 AAB
G 3/8 m	42	22	27	10	82	ESEG 38 AAB	ESER 38 AAB
G 1/2 m	44	24	27	12	95	ESEG 12 AAB	ESER 12 AAB

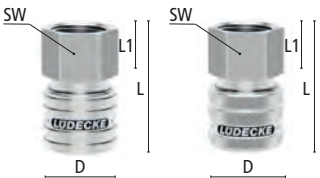
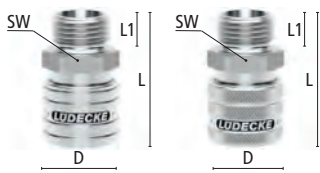
Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	sleeve	
						Type No. flat	Type No. knurled
G 1/4 f	41.5	22	27	10.5	83	ESEG 14 IAB	ESER 14 IAB
G 3/8 f	41.5	22	27	10.5	83	ESEG 38 IAB	ESER 38 IAB
G 1/2 f	43	24	27	12	92	ESEG 12 IAB	ESER 12 IAB

Couplings with hose stem

Hose connection	L	SW	D	L1	Weight	sleeve	
						Type No. flat	Type No. knurled
Hose i.D. 6	56	22	27	25	92	ESEG 6 TAB	ESER 6 TAB
Hose i.D. 8	56	22	27	25	92	ESEG 8 TAB	ESER 8 TAB
Hose i.D. 9	56	22	27	25	92	ESEG 9 TAB	ESER 9 TAB
Hose i.D. 10	56	22	27	25	93	ESEG 10 TAB	ESER 10 TAB
Hose i.D. 13	56	22	27	25	95	ESEG 13 TAB	ESER 13 TAB

For hose clips type HSE (© page 416)



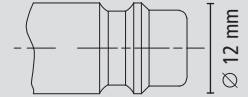
Available either with ergonomically flat sleeve contour to avoid dirt nests for elevated hygiene regulations or with handy knurled sleeve



Quick Connect Couplings

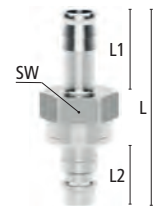
double shut-off Series ESE

DN7.2



Plug Profile (original size)

Clean Connect
by **LUDECKE**



Plugs with parallel male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 m	43	22	9	20	52	ESE 14 NAAB
G 3/8 m	45	22	10	20	55	ESE 38 NAAB
G 1/2 m	47	24	12	20	62	ESE 12 NAAB

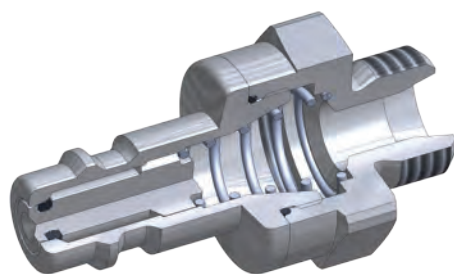
Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	44	22	10.5	20	55	ESE 14 NIAB
G 3/8 f	44	22	10.5	20	55	ESE 38 NIAB
G 1/2 f	45.5	24	12	20	62	ESE 12 NIAB

Plugs with hose stem

Hose connection	L	SW	L1	L2	Weight	Type No.
Hose i.D. 6	54	22	25	20	55	ESE 6 SAB
Hose i.D. 8	54	22	25	20	55	ESE 8 SAB
Hose i.D. 9	54	22	25	20	55	ESE 9 SAB
Hose i.D. 10	54	22	25	20	56	ESE 10 SAB
Hose i.D. 13	54	22	25	20	57	ESE 13 SAB

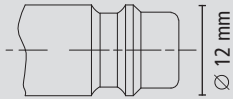
For hose clips type HSE (© page 416)



Industrial Quick Connect Couplings

Series ESIE single shut-off and double shut-off

DN7.8



Plug Profile (original size)

Clean Connect
by **LUDECKE**



- High quality and robust one-hand quick connect couplings made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Front body protected by collar design
- High flow rates of low pressure drop due to energy efficient valve design
- Coupling also to be used with shut-off plugs
- To be used in various applications such as fluid medias in motion and control, pharmaceutical, medical, chemical, food and beverage industry, as well as for high purity operations.
- Temperature subject to media and sealing compound

Materials

- Body, sleeve, valve body, valve, plug: Stainless steel 1.4305
- Springs: Stainless Steel 1.4310
- Balls: Stainless Steel 1.4034
- O-rings: FKM (EPDM, FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +200°C	7.8	ISO 228	1850/ 750 l/min	One-hand	single shut-off/ double shut-off	different	Europe	Coupl. 1/ Plug 5

Couplings with male thread (valved)

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 m	57.5	19	23.5	9	97	ESIE 14 AAB
G 3/8 m	58.5	19	23.5	10	101	ESIE 38 AAB
G 1/2 m	60.5	24	23.5	12	130	ESIE 12 AAB

Couplings with female thread (valved)

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	57.5	19	23.5	10	106	ESIE 14 IAB
G 3/8 f	57.5	19	23.5	10	100	ESIE 38 IAB
G 1/2 f	59.5	24	23.5	12	133	ESIE 12 IAB

Couplings with hose stem (valved)

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	73.5	19	23.5	25	97	ESIE 6 TAB
Hose i.D. 8	73.5	19	23.5	25	98	ESIE 8 TAB
Hose i.D. 9	73.5	19	23.5	25	99	ESIE 9 TAB
Hose i.D. 10	73.5	19	23.5	25	99	ESIE 10 TAB
Hose i.D. 13	73.5	19	23.5	25	101	ESIE 13 TAB

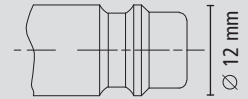
For hose clips type HSE (© page 416)



Industrial Quick Connect Couplings

single shut-off and double shut-off Series ESIE

DN7.8



Plug Profile (original size)

Clean Connect
by **LUDECKE**



Plugs with male thread (non-valved)

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 m	33	17	9	20	22	ESE 14 NA
G 3/8 m	33	19	9	20	25	ESE 38 NA
G 1/2 m	37	24	12	20	45	ESE 12 NA

Plugs with female thread (non-valved)

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	32	17	10	20	20	ESE 14 NI
G 3/8 f	32	19	10	20	25	ESE 38 NI
G 1/2 f	35	24	12	20	36	ESE 12 NI

Plugs with hose stem (non-valved)

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	46	12	25	20	13	ESE 6 S
Hose i.D. 8	46	12	25	20	15	ESE 8 S
Hose i.D. 9	46	12	25	20	14	ESE 9 S
Hose i.D. 10	46	12	25	20	17	ESE 10 S
Hose i.D. 13	46	12	25	20	24	ESE 13 S

For hose clips type HSE (© page 416)

Plugs with tapered male thread (valved)

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 m	43	22	9	20	52	ESE 14 NAAB
G 3/8 m	45	22	10	20	55	ESE 38 NAAB
G 1/2 m	47	24	12	20	62	ESE 12 NAAB

Plugs with tapered female thread (valved)

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	44	22	10.5	20	55	ESE 14 NIAB
G 3/8 f	44	22	10.5	20	55	ESE 38 NIAB
G 1/2 f	45.5	24	12	20	62	ESE 12 NIAB

Plugs with hose stem (valved)

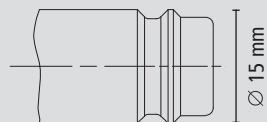
Hose connection	L	SW	L1	L2	Weight	Type No.
Hose i.D. 6	54	22	25	20	55	ESE 6 SAB
Hose i.D. 8	54	22	25	20	55	ESE 8 SAB
Hose i.D. 9	54	22	25	20	55	ESE 9 SAB
Hose i.D. 10	54	22	25	20	56	ESE 10 SAB
Hose i.D. 13	54	22	25	20	57	ESE 13 SAB

For hose clips type HSE (© page 416)

Industrial Quick Connect Couplings

Series ESIGE single shut-off and double shut-off

DN 10



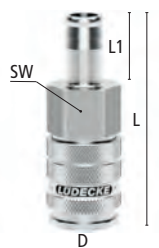
Plug Profile (original size)

- High quality and robust one-hand quick connect couplings made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- High flow rates at low pressure drop due to energy efficient valve design
- Couplings also to be used with shut-off plugs
- Front body protected by collar design
- To be used in various applications such as fluid medias in motion and control, pharmaceutical, medical, chemical, food and beverage industry, as well as for high purity operations
- Temperature subject to media and sealing compound

Materials

- Body, sleeve, valve body, valve, plug: Stainless steel 1.4305
- Springs: Stainless Steel 1.4310
- Balls: Stainless Steel 1.4034
- O-rings: FKM (Buna N on request)

Clean Connect
by **LUDECKE**



Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of Valve	Media	Area	
PN 35 bar	-15°C – +150°C	10	ISO 228	2150/ 1020 l/min	One-hand	single/double shut-off	different	Europe	Coupl. 1/ Plug 5

Couplings with male thread (valved)

Thread connection	L	SW	L1	D	Weight	Type No.
G 3/8 m	61.5	24	10	27	144	ESIGE 38 AAB
G 1/2 m	63.5	24	12	27	148	ESIGE 12 AAB
G 3/4 m	67.5	32	16	27	213	ESIGE 34 AAB

Couplings with female thread (valved)

Thread connection	L	SW	L1	D	Weight	Type No.
G 3/8 f	56.5	24	11	27	146	ESIGE 38 IAB
G 1/2 f	56.5	24	12	27	138	ESIGE 12 IAB
G 3/4 f	67.5	32	16	27	213	ESIGE 34 IAB

Couplings with hose stem (valved)

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 9	76.5	24	27	25	145	ESIGE 9 TAB
Hose i.D. 10	76.5	24	27	25	144	ESIGE 10 TAB
Hose i.D. 13	76.5	24	27	25	147	ESIGE 13 TAB
Hose i.D. 16	76.5	24	27	25	149	ESIGE 16 TAB
Hose i.D. 19	76.5	24	27	25	151	ESIGE 19 TAB

For hose clips type HSE (☺ page 416)

Plugs with male thread (non-valved)

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 m	35.5	19	9	21	30	ESIGE 38 NA
G 1/2 m	38.5	24	12	21	50	ESIGE 12 NA
G 3/4 m	43	32	16	21	83	ESIGE 34 NA

Plugs with female thread (non-valved)

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 f	36	19	12	21	28	ESIGE 38 NI
G 1/2 f	37	24	12	21	45	ESIGE 12 NI
G 3/4 f	42	32	16	21	92	ESIGE 34 NI

Plugs with hose barb (non-valved)

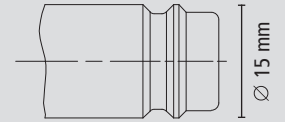
Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 9	46.5	15	25	21	21	ESIGE 9 S
Hose i.D. 10	46.5	15	25	21	21	ESIGE 10 S
Hose i.D. 13	46.5	15	25	21	28	ESIGE 13 S
Hose i.D. 16	48	20	25	21	33	ESIGE 16 S
Hose i.D. 19	48	24	25	21	39	ESIGE 19 S

For hose clips type HSE (☺ page 416)

Industrial Quick Connect Couplings

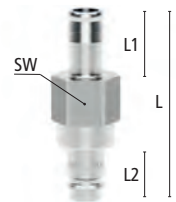
double shut-off Series ESIGE

DN 10



Plug Profile (original size)

Clean Connect
by **LUDECKE**



Plugs with male thread (valved)

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 m	59.5	24	10	21	88	ESIGE 38 NAAB
G 1/2 m	61.5	24	12	21	93	ESIGE 12 NAAB
G 3/4 m	65.5	32	16	21	157	ESIGE 34 NAAB

Plugs with female thread (valved)

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 f	54.5	24	11	21	90	ESIGE 38 NIAB
G 1/2 f	54.5	24	12	21	82	ESIGE 12 NIAB
G 3/4 f	58.5	32	16	21	145	ESIGE 34 NIAB

Plugs with hose stem (valved)

Hose connection	L	SW	L1	L2	Weight	Type No.
Hose i.D. 9	74.5	24	25	21	89	ESIGE 9 SAB
Hose i.D. 10	74.5	24	25	21	88	ESIGE 10 SAB
Hose i.D. 13	74.5	24	25	21	91	ESIGE 13 SAB
Hose i.D. 16	74.5	24	25	21	94	ESIGE 16 SAB
Hose i.D. 19	74.5	24	25	21	95	ESIGE 19 SAB

For hose clips type HSE (© page 416)

Industrial Quick Connect Couplings

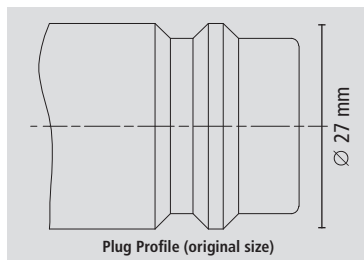
Serie ESGE single shut-off and double shut-off

DN 19

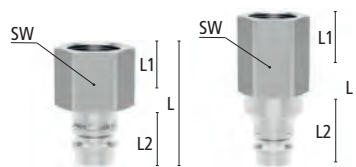
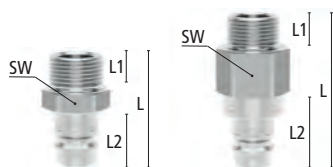
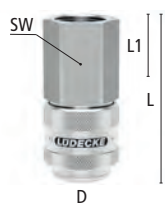
- High quality, robust one-hand quick connect couplings made of stainless steel 1.4404
- High flow rates with low pressure drop due to energy efficient valve design for high volume media flow in connection with connecting function by one-hand operation
- Couplings also to be used with shut-off plug
- To be used in various applications with fluid media, such as compressed air, craftsmanship, high capacity tools and machinery
- According to TA-Luft for industrial production plants

Materials

- Body, sleeve, valve body, valve, balls, plug: Stainless steel 1.4404
- Springs, retaining ring: Stainless steel 1.4571
- O-rings: FKM



Clean Connect
by **LUDECKE**



Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of Valve	Media	Area
PN 35 bar	-20°C – +150°C	19	ISO 228	8000/ 2600 l/min	One-hand	single-/double shut-off	different	Europe

Coupling with Male thread (valved)

Thread Connection	L	SW	D	L1	⊗	Weight	Type No.
G 3/4 m	95	41	46	16	1	575	ESGE 34 AAB
G 1 m	98	41	46	19	1	606	ESGE 10 AAB
G 1 1/4 m	98	46	46	19	1	695	ESGE 54 AAB

Coupling with female thread (valved)

Thread Connection	L	SW	D	L1	⊗	Weight	Type No.
G 3/4 f	99	41	46	20	1	694	ESGE 34 IAB
G 1 f	99	41	46	21	1	641	ESGE 10 IAB
G 1 1/4 f	104	50	46	22	1	884	ESGE 54 IAB

Coupling with hose stem (valved)

Hose connection	L	D	L1	⊗	Weight	Type No.
Hose i.D. 19	128	46	36	1	613	ESGE 19 TAB
Hose i.D. 25	129	46	48	1	640	ESGE 25 TAB

For hose clips type HSE (⊗ page 416)

Plugs with male thread (non-valved / valved)

Thread connection	L	SW	L1	L2	Type of Valve	⊗	Weight	Type No.
G 3/4 m	60	32	16	34	valved	5	142	ESGE 34 NA
G 1 m	65	36	19	34	valved	5	194	ESGE 10 NA
G 1 1/4 m	68	46	19	34	valved	5	307	ESGE 54 NA
G 3/4 m	92	41	16	34	non-valved	1	372	ESGE 34 NAAB
G 1 m	95	41	19	34	non-valved	1	403	ESGE 10 NAAB
G 1 1/4 m	95	46	19	34	non-valved	1	492	ESGE 54 NAAB

Plugs with female thread (non-valved/ valved)

Thread connection	L	SW	L1	L2	Type of Valve	⊗	Weight	Type No.
G 3/4 f	58	32	20	34	valved	5	151	ESGE 34 NI
G 1 f	68	41	24	34	valved	5	297	ESGE 10 NI
G 1 1/4 f	70	50	26	34	valved	5	413	ESGE 54 NI
G 3/4 f	96	41	20	34	non-valved	1	491	ESGE 34 NIAB
G 1 f	96	41	21	34	non-valved	1	438	ESGE 10 NIAB
G 1 1/4 f	101	50	22	34	non-valved	1	681	ESGE 54 NIAB

Plugs with hose stem (non-valved/ valved)

Hose connection	L	SW	D	L1	L2	Type of Valve	⊗	Weight	Type No.
Hose i.D. 19	75	-	30	36	34	valved	5	161	ESGE 19 S
Hose i.D. 25	87	-	35	48	34	valved	5	175	ESGE 25 S
Hose i.D. 19	116	41	-	36	34	non-valved	1	410	ESGE 19 SAB
Hose i.D. 25	126	41	-	48	34	non-valved	1	437	ESGE 25 SAB

For hose clips type HSE (⊗ page 416)

MODY CleanConnect Spiral Hoses made of Polyurethane

with Straight Sides for the Food Industry and Pharmacy

- High-abrasion, pressure and wear resistance as well as extreme and constant recoil of the spirals
- Perfect elasticity, flexibility, can be driven over, crush-resistant, free of taste and smell
- Resistant to microbes and hydrolysis, oil, gas and chemical resistant, good cold flexibility
- Polyurethane food-safe according to FDA 21 CFR 177.2600 and 178.2010, EU regulation 10/2011 and the newest regulation 2015/174
- Approved according to the EU regulation 1935/2004
- Production process according to GMP EC 2023/2006
- For applications in the pneumatic sector as well as for liquids, gases and abrasive solids
- For applications in the food industry (e.g. food conveying, dry, watery, acidic and fatty foods), pharmaceutical industry (FDA, EU regulation)

Materials

- Hose: Polyurethane (Polyether Polyurethane)
- Coupling, plug: Stainless steel 1.4305

Max. Working Pressure	Temperature	Media	Colours	Short End	Long End	
PN 12 bar	-40°C – +90°C	different	Transparent	100	500	1

Hose i.D./o.D.	Connection	Max. Working L.		Block Length		Weight	
		Hose Length		Outer Spiral \varnothing	Type. Nr.		
8/12	without	3000	4700	240	75	345	PUL 8123
8/12	without	6000	7600	400	75	555	PUL 8126
8/12	without	8000	9700	540	75	710	PUL 8128
8/12	ESE-coupling + plug	3000	4700	240	75	505	PUL 8123 ESE
8/12	ESE-coupling + plug	6000	7600	400	75	715	PUL 8126 ESE
8/12	ESE-coupling + plug	8000	9700	540	75	870	PUL 8128 ESE

MODY-CleanConnect-Hose of Polyurethane, non-spiraled (minimum quantity 10m/ type)

Hose i.D./o.D.	Weight g/m	Type. Nr.
8/12	80	PUL 812

Food-Safe

Clean Connect
by LUDECKE



Compressed air Blow-off Valve

made of Stainless Steel

- Blow-off valve made of stainless steel for permanent use under heavy working conditions
- For cleaning of working areas and parts at applications with elevated hygiene regulations

Materials

- Blow-off valve: Stainless steel 1.4305
- Handle: Stainless steel 1.4308

Max. Working Pressure	Temperature	Media	
PN 12 bar	-20°C – +100°C	Compressed Air	5

Compressed Air Blow-off Valve made of Stainless Steel

Connection	Version	Nozzle bore	L	D	Weight	Type No.
Plug ESE	with nozzle HE2	2	108	22	277	AHLE ESE

Clean Connect
by LUDECKE





Temperature Regulation Quick Connect Couplings



For Safe and Quick Connections in Temperature Regulation Applications



Stainless steel temperature regulation quick connect couplings are ideally used for applications where cold and hot water lines or tempered oils are operated in cleanroom areas or when elevated hygiene regulations are required.

Advantages:

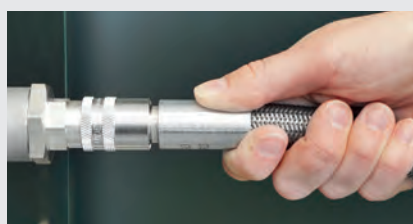
- High-quality stainless steel 1.4305
- Robust, safe and reliable
- Absolutely tight and durable
- Easy to connect (one-hand operation)
- To connect temperature regulation lines for different media (e.g. water, steam, oil)
- Different sizes, connection and valve types
- TempSecure®: patented temperature regulation quick connect coupling system with automatic locking mechanism (effective protection against unintended disconnection under pressure)

Connected in Seconds

The **LUDECKE** quick connect couplings for temperature regulation applications are characterized by their easy handling.



One-hand operation: to connect, simply push the plug into the coupling.



To disconnect, slide the sleeve back (with automatic locking mechanism)



TempSecure®

Visual color coding on the locking sleeve
Stainless steel plain = disconnected



green = connected

Safety without Compromise

The **LUDECKE** TempSecure® temperature regulation quick connect coupling system features an automatic safety locking mechanism that offers an effective solution for unintentional disconnection and unlocking.

The coupling is especially suited for the use with aggressive media, such as temperature regulation applications with hot or cold water as well as tempered oil between - 20°C and + 200°C*. High quality FKM-O-rings make the coupling an ideal media carrier especially with high temperature.

- Automatic locking mechanism
- Visual colour coding
- High temperature resistant
- Simple and intuitive coupling process with forced guidance
- Controlled, manual disconnection
- Different sizes, connection and valve types



*subject to the used media

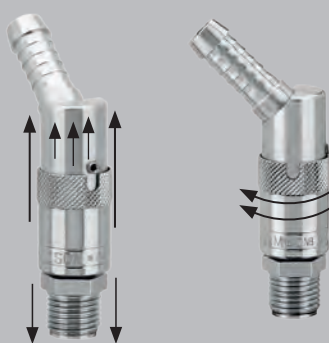
The Unlocking Safeguard

Safety for Man and Machine

The **LUDECKE** temperature regulation product range contains alongside the TempSecure® Series, also a simplified unlocking safeguard.

- Disconnection only possible with an exact engagement of the safety pin into sleeve notch
- Prevention of fluid or pressure loss in the circulation during operation
- Prevention of human injury and harm to the environment, machine and tool

Just add "S" on Type No. (e.g. ESHME 9 TLS)



Colour Coding

Easy to Differentiate

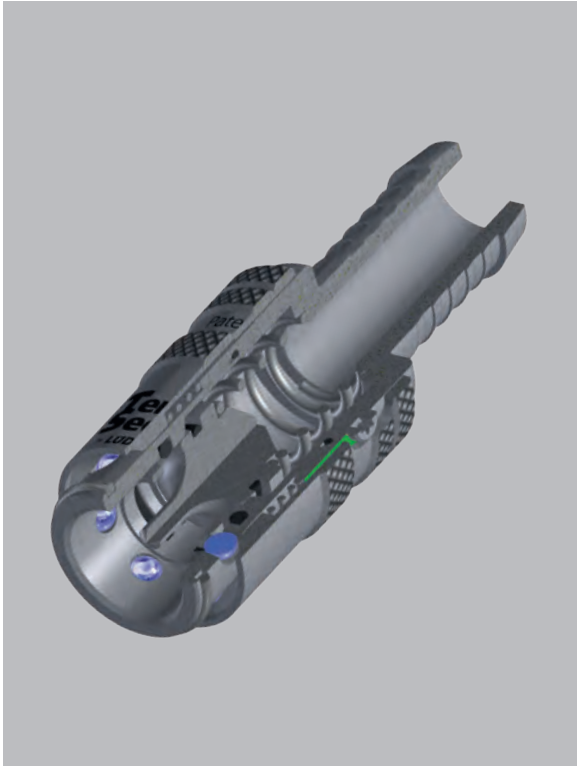
A red or blue anodized aluminium ring for the sleeve can be ordered for easy identification and distinction between flow and return lines of the tempered circuit for the series ESHME and ESHE.

The rings are also individually available for self-assembly. Simply slide the ring on the coupling sleeve for identification!



The new O-Ring-Generation made of FKM

Even more Resistant and Durable



LUDECKE offers especially for temperature regulation applications high-performance seals made of FKM.

Advantages:

- Heat resistant up to 200°C
- High resistance against all common tempered media*
- FKM-O-rings are generally PTFE coated, therefore significantly better gliding properties and minimum wear
- High elasticity (no crack formation) according to DIN 53504
- High abrasion resistance of the O-ring according to DIN 54021
- Prevents bonding of the O-ring and the plug during high temperature application
- Significantly higher operation time of the coupling

Now standard in every coupling

High-Performance Special Seals for Temperature Regulation Quick Connect Couplings

High Resistance for Extreme Exposure

For the temperature regulation quick connect coupling series ESHME and ESH new high-performance special seals are alternatively offered for highly aggressive tempered fluids.

FKM-O-Ring

- Extreme heat resistance up to 200°C continual temperature*
- High resistance against synthetic oils used as tempered media
- Very good chemical resistance and high resistance against aliphatic hydrocarbons (fuels)
- Steam/hot water optimized
- For easy differentiation, the coupling sleeve is marked with a green anodized aluminium ring

When ordering, simply add to the standard Type No. "HV" (e.g. ESHME 9 TLABHV)

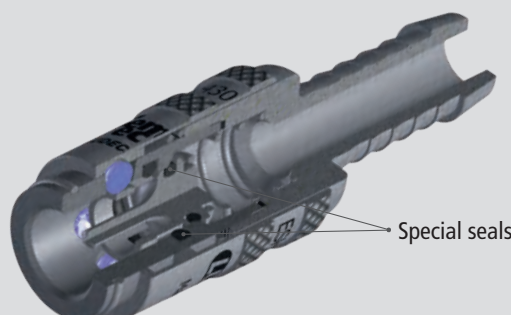
HITEC®-EPDM-O-Ring

- Extreme heat resistance up to 160°C continual temperature
- High resistance against hot water, ultrapure water and steam used as tempered media
- Aging and weather resistant
- Possesses a KTW certification for drinking water in Germany
- For easy differentiation the coupling sleeve is marked with a black anodized aluminium ring
- **Caution: This ring is not resistant to oils or grease**

When ordering, simply add to the standard Type No. "HE" (e.g. ESHM 9 TLABHE).

Minimum Order of 20 Pieces/ Type

For other coupling series on request!



*temperature resistance is subject to the suitable media

Overview Temperature Regulation Quick Connect Couplings of Stainless Steel

Temp Secure
by LUDECKE

Temp Secure
by LUDECKE

Series

ESHME
DN 6

NEW!

ESHMTE
DN 6

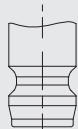
ESHE
DN 9

NEW!

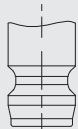
ESHTe
DN 9

Manifolds for
Temperature Regulation
Lines

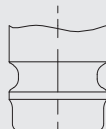
Plug Profile
(original size)



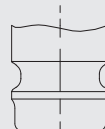
∅ 9 mm



∅ 9 mm



∅ 13 mm



∅ 13 mm



Materials:

Body:	Stainless Steel 1.4305	Stainless Steel 1.4305	Stainless Steel 1.4305	Stainless Steel 1.4305
Sleeve:	Stainless Steel 1.4305	Stainless Steel 1.4305	Stainless Steel 1.4305	Stainless Steel 1.4305
Valve body:	Stainless Steel 1.4305	Stainless Steel 1.4305	Stainless Steel 1.4305	Stainless Steel 1.4305
Valve:	Stainless Steel 1.4305	Stainless Steel 1.4305	Stainless Steel 1.4305	Stainless Steel 1.4305
Springs, retaining rings:	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310
Balls:	Stainless Steel 1.4034	Stainless Steel 1.4034	Stainless Steel 1.4034	Stainless Steel 1.4034
O-rings:	FKM (PFTE coated)	Special-Hitec-FKM-O-Ring	FKM (PFTE coated)	Special-Hitec-FKM-O-Ring
Special seals for other media on request:	FFKM	EPDM, FFKM	FFKM	EPDM, FFKM
Plug:	Stainless Steel 1.4305	Stainless Steel 1.4305	Stainless Steel 1.4305	Stainless Steel 1.4305
Max. Working Pressure:	PN 15 bar	PN 15 bar	PN 15 bar	PN 15 bar
Temperature*:	-20°C – + 200°C	-20°C – + 200°C	-20°C – + 200°C	-20°C – + 200°C
Thread Types:	ISO 228/ DIN 13	ISO 228/ DIN 13	ISO 228/ DIN 13	ISO 228/ DIN 13
Flow capacity: single shut-off:	Kv = 0.72	Kv = 0.72	Kv = 1.8	Kv = 1.8
Version:	straight/45°/90°	straight/45°/90°	straight/45°/90°	straight/45°/90°
Type of Valve:	single shut-off/ double shut-off/ straight-through	single shut-off/ double shut-off/ straight-through	single shut-off/ double shut-off/ straight-through	single shut-off/ double shut-off/ straight-through
Operation:	One-hand	One-hand	One-hand	One-hand
Page:	308	310	311	313

Material:	Stainless Steel 1.4401
Max. Working Press.:	PN 15 bar
Temperature:	-20°C – + 200°C
Thread connections:	ISO 228
Page:	314

*subject to the suitable media (Oil: 200°C, Water: 150°C, Air: 200°C)

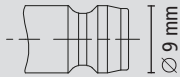
Temperature Regulation Quick Connect Couplings

Series ESHME plug size 9 mm - Stainless Steel 1.4305

- For temperature regulation applications with hot or cold water as well as tempered oil i.e. in clean-room production
- Optional with straight-through, single or double shut-off
- All couplings available with disconnect-protection with a surcharge. Just add "S" on Type No.

Materials

- Body, sleeve, valve body, valve, plug: Stainless steel 1.4305
- Springs, retaining rings: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: FKM (PTFE-coated)



Plug Profile (original size)

European Plug Profile



Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	6	ISO 228 / DIN 13	One-hand	single/double/straight-thr.	Tempered media	Coupl. 1 / Plug 5

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	53	17	22.5	9	6	45	ESHME 9 TL	ESHME 9 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	42.5	17	25.5	9	6	62	ESHME 9 TL-45	ESHME 9 TL-45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	42.5	17	25.5	9	6	62	ESHME 9 TL-90	ESHME 9 TL-90AB

Couplings with thread connection

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	48	17	17	9	9	6	60	ESHME 14 A	ESHME 14 AAB
M 14x1.5 m	48	17	17	9	9	6	60	ESHME 1415 A	ESHME 1415 AAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	47	16	17	9	9	6	65	ESHME 14 A-45	ESHME 14 A-45AB
M 14x1.5 m	47	16	17	9	9	6	65	ESHME 1415 A-45	ESHME1415A-45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	47	16	17	9	9	6	75	ESHME 14 A-90	ESHME 14 A-90AB
M 14x1.5 m	47	16	17	9	9	6	75	ESHME 1415 A-90	ESHME1415A-90AB

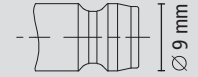
Safe connection of individual coupling parts due to special glue and additional FKM-O-ring sealing.

Other types / sizes on request!

Suitable hose clips (☺ page 416), double-ear hose clips (☺ page 414) or crimping ferrules for standard hoses (☺ page 418)

Temperature Regulation Quick Connect Couplings

plug size 9 mm - Stainless Steel 1.4305 Series ESHME

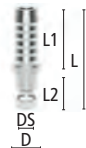


Plug Profile (original size)

Plugs

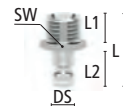
Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 9	39.5	12	22.5	14	9	6	13	ESHME 9 SL



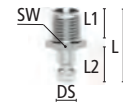
Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	24	11	7	14	9	6	10	ESHME 18 NA
G 1/4 m	26	15	9	14	9	6	14	ESHME 14 NA
G 3/8 m	27	17	9	14	9	6	18	ESHME 38 NA
M 8x0.75 m	24	11	7	14	9	4.5	9	ESHME 875 NA
M 10x1 m	24	11	7	14	9	6	8	ESHME 101 NA
M 14x1.5 m	26	15	9	14	9	6	14	ESHME 1415 NA
M 16x1.5 m	26	17	9	14	9	6	18	ESHME 1615 NA



Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	29	15	12	14	9	6	14	ESHME 14 NAAB
G 3/8 m	30	17	12	14	9	6	22	ESHME 38 NAAB
M 14x1.5 m	29	15	12	14	9	6	15	ESHME 1415 NAAB



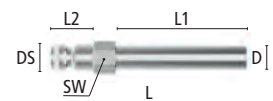
Plug System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 6 - DN 6	34	12	14	14	9	9	6	15	ESHME-ESHME
DN 6 - DN 9	34	14	14	14	9	13	6	19	ESHME-ESHE



Plug Tubes for countersunk mould threads

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
8	63	9	42	14	9	6	14	ESHME 63 R
8	100	9	79	14	9	6	20	ESHME 100 R
10	120	11	99	14	9	6	49	ESHME 120 R

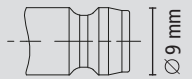


NEW!

Temperature Regulation Quick Connect Couplings

Series ESHMTE plug size 9 mm – Stainless Steel with Automatic Locking Mechanism

DN6



Plug Profile (original size)

Temp Secure
by **LUDECKE**



European Plug Profile



- Forced guidance design with visual colour coding at the locking sleeve
- Combined pressure-torsion spring and very robust locking sleeve made of stainless steel
- For temperature regulation applications with hot or cold water as well as oil tempered i.e. in clean-room production
- Optional with straight-through, single or double shut-off
- Versions with additional O-ring sealing at connection port to prevent leakage in high temperature applications

Materials

- Body, sleeve, valve body, valve, plug: stainless steel 1.4305
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: Special-Hitec-FKM-O-ring

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	6	ISO 228/ DIN 13	One-hand	single/double/straight-thr.	Tempered media	5

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	61	18	22.5	9	6	54	ESHMTE 9 TL	ESHMTE 9 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	54	18	22.5	9	6	79	ESHMTE 9 TL45	ESHMTE 9 TL45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	56	18	22.5	9	6	88	ESHMTE 9 TL90	ESHMTE 9 TL90AB

Couplings with male threads

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	56.5	17	18	11	9	6	67	ESHMTE14AL	ESHMTE14ALAB
M 14x1.5 m	56.5	17	18	11	9	6	68	ESHMTE1415AL	ESHMTE1415ALAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	52	17	18	11	9	6	83	ESHMTE14AL45	ESHMTE14AL45AB
M 14x1.5 m	52	17	18	11	9	6	84	ESHMTE1415AL45	ESHMTE1415AL45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	56	17	18	11	9	6	92	ESHMTE14AL90	ESHMTE14AL90AB
M 14x1.5 m	56	17	18	11	9	6	93	ESHMTE1415AL90	ESHMTE1415AL90AB

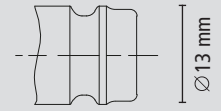
other types / sizes on request!

Temperature Regulation Quick Connect Couplings

plug size 13 mm – Stainless Steel 1.4305 Series ESHE

- For temperature regulation applications with hot or cold water as well as oil tempered i.e. in clean-room production
- Optional with straight-through, single or double shut-off
- All couplings available with disconnect-protection with a surcharge. Just add "S" on Type No.

DN9



Plug Profile (original size)

Materials

- Body, sleeve, valve body, valve, plug: Stainless steel 1.4305
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: FKM (PTFE-coated)

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	9	ISO 228 / DIN 13	One-hand	single/double/straight-thr.	Tempered media	Coupl. 1 / Plug 5

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	61.5	22	25	13	9	81	ESHE 13 TL	ESHE 13 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	51	22	30	13	9	109	ESHE 13 TL-45	ESHE 13 TL-45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	51	22	30	13	9	111	ESHE 13 TL-90	ESHE 13 TL-90AB

Couplings with thread connection

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	52	22	22	9	13	9	94	ESHE 38 A	ESHE 38 AAB
M 16x1.5 m	52	22	22	9	13	9	93	ESHE 1615 A	ESHE 1615 AAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	54	19	22	9	13	9	114	ESHE 38 A-45	ESHE 38 A-45AB
M 16x1.5 m	54	19	22	9	13	9	114	ESHE 1615 A-45	ESHE 1615 A-45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	54	19	22	9	13	9	126	ESHE 38 A-90	ESHE 38 A-90AB
M 16x1.5 m	54	19	22	9	13	9	126	ESHE 1615 A-90	ESHE 1615 A-90AB

Couplings with straight female thread without/ with valve

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	44.5	17	22	9	13	9	102	ESHE 14 I	ESHE 14 IAB
G 3/8 f	46	22	22	9	13	9	104	ESHE 38 I	ESHE 38 IAB

Safe connection of individual coupling parts due to special glue and additional FKM-O-ring sealing.

Other types / sizes on request!

Suitable hose clips (☺ page 416), double-ear hose clips (☺ page 414) or crimping ferrules for standard hoses (☺ page 418)

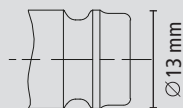
**European
Plug Profile**



Temperature Regulation Quick Connect Couplings

Series ESHE plug size 13 mm – stainless steel 1.4305

DN9



Plug Profile (original size)



Plugs

Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 13	39.5	16	25	14	13	9	25	ESHE 13 SL

Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	26	15	9	14	13	9	17	ESHE 14 NA
G 3/8 m	26	17	9	14	13	9	22	ESHE 38 NA
G 1/2 m	31	22	12	14	13	9	22	ESHE 12 NA
M 14x1.5 m	26	15	9	14	13	9	16	ESHE 1415 NA
M 16x1.5 m	26	17	9	14	13	9	20	ESHE 1615 NA

Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	30	15	11	14	13	9	21	ESHE 14 NAAB
G 3/8 m	29	17	12	14	13	9	23.5	ESHE 38 NAAB
M 16x1.5 m	29	17	12	14	13	9	23	ESHE 1615 NAAB

Plug System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 6 – DN 9	34	14	14	14	9	13	6	19	ESHME-ESHE
DN 9 – DN 9	34	14	14	14	13	13	9	25	ESHE-ESHE

Plug Tubes for countersunk mould threads

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
14	150	15	127	14	13	9	109	ESHE 150 R

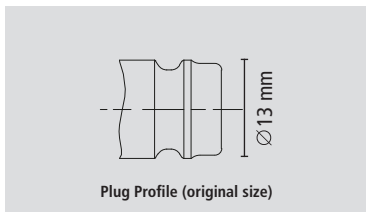


Temperature Regulation Quick Connect Couplings

plug size 13 mm – Stainless Steel with Automatic Locking Mechanism Series ESHT

- Forced guidance design with visual colour coding at the locking sleeve
- Combined pressure-torsion spring and very robust locking sleeve made of stainless steel
- For Temperature Regulation applications with hot or cold water as well as tempered oil i.e. in clean-room production
- Optional with straight-through, single or double shut-off
- Versions with additional O-ring sealing at connection port to prevent leakage in high temperature applications

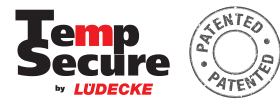
DN9



Materials

- Body, locking sleeve, valve body, valve, plug: Stainless steel 1.4305
- Spring, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-Rings: Special-Hitec-FKM-O-ring

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	9	ISO 228/ DIN 13	One-hand	single/double/straight-thr.	Tempered media	5



European Plug Profile

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	63	23.5	25	13	9	77	ESHT 13 TL	ESHT 13 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	55.5	22	23.5	25	13	9	134	ESHT 13 TL45	ESHT 13 TL45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	55.5	22	23.5	25	13	9	134	ESHT 13 TL90	ESHT 13 TL90AB

Couplings with male thread

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	56	22	23.5	12.5	13	9	95	ESHT 38AL	ESHT 38ALAB
M 16x1.5 m	56	22	23.5	12.5	13	9	94	ESHT 1615AL	ESHT 1615ALAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	55.5	22	23.5	12.5	13	9	131	ESHT 38AL45	ESHT 38AL45AB
M 16x1.5 m	55.5	22	23.5	12.5	13	9	129	ESHT 1615AL45	ESHT 1615AL45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	55.5	22	23.5	12.5	13	9	131	ESHT 38AL90	ESHT 38AL90AB
M 16x1.5 m	55.5	22	23.5	12.5	13	9	129	ESHT 1615AL90	ESHT 1615AL90AB

Other sizes on request

*depends on media (Oil: 200°C, Water: 160°C, Air: 200°C)



Manifolds for Temperature Regulation Lines

of Stainless Steel 1.4401

- For a clearly arranged composition of flow and reflux as close as possible to the mould tool, for a direct assembly to the machine
- Increases the working and production safety through its clearly arranged composition of temperature regulation lines, saves energy and hose lines because of central inlet of the temperature regulation media into the machine
- A central inflow from and outflow to the temperature regulation tool, as many outlets as necessary to the mould tool because of the modular construction and different lengths
- Profile can be extended or combined as often as desired due to the bar connector system
- Stainless steel manifolds mainly for applications with aggressive media
- Lateral inlet thread G 3/4 f, top outlet thread 1/4 f for coupling Series DN 6 and DN 9
- Other types / measures on demand!

Materials:

- Manifold: Stainless Steel 1.4401
- Blank End Plug: Brass MS 58

Max. Working Pressure	Temperature	Thread	Media	⊞
PN 15 bar	-20°C – +200°C	ISO 228	Tempered media	1

Manifold made of Stainless Steel 1.4401

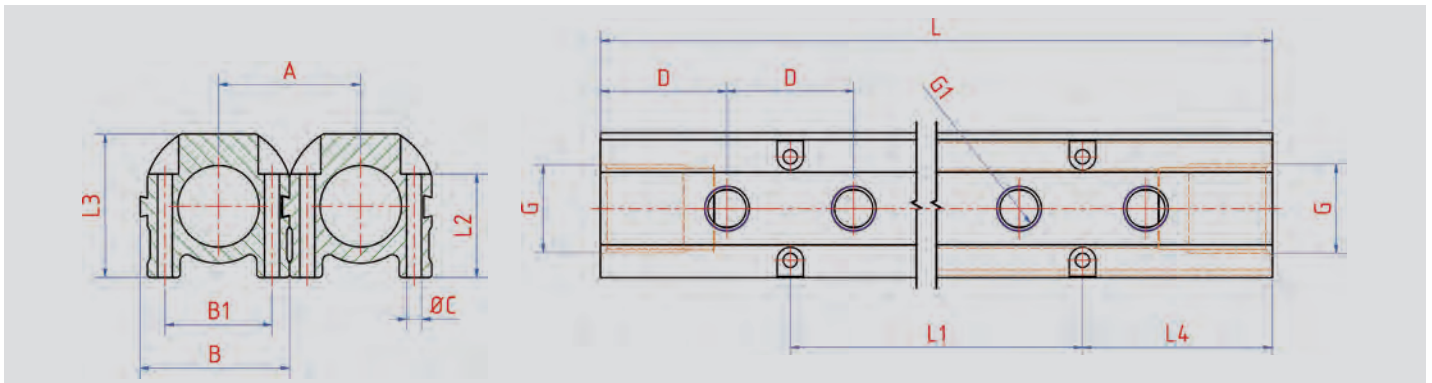
G*	G1**	L	B	L1	L2	L3	L4	∅C	A	D	B1	Weight	Type No.
2 x G 3/4 f	4 x G 1/4 f	190	43.5	75.6	30	41.5	57.2	4.5	41.3	38	31	1490	VBE 34144-190

Blank End Plug for Manifolds

Thread connection	Inner Hexagon	⊞	Weight	Type No.
G 3/4 m	SW 12	5	80	VBS-34

*Thread connection on the side

**Thread connection on the top

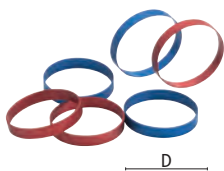


Colour Coding

- Easy identification and distinction between flow and return lines of the tempered circuit with red or blue anodised colour coding (for the series ESHME and ESHE)
- Surcharge per piece and a minimum order quantity of 20 pieces/type. When ordering, simply add to a standard article number "R" or "B" (e.g. ESHE 13 TLR or ESHME 9 TALBB)
- The rings are also available for self-assembly. Simply slide the ring on the coupling sleeve for identification!

Materials

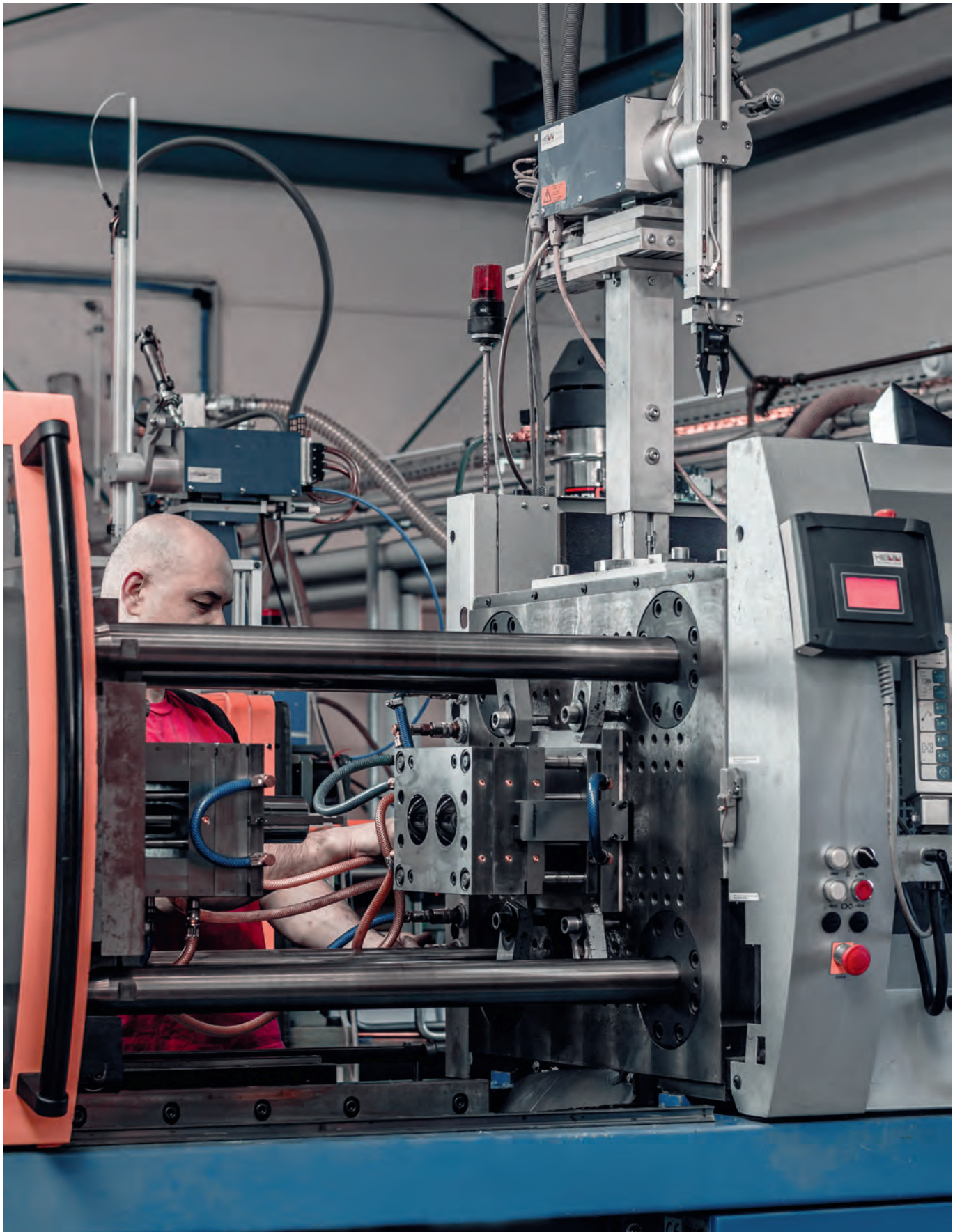
- Colour coding: Aluminium anodised



Marking rings for temperature regulation couplings

for coupling type	D	Colour	⊞	Weight	Type No.
ESHME (DN 6)	17	red	50	1	ESHM-CR-R
ESHME (DN 6)	17	blue	50	1	ESHM-CR-B
ESHE (DN 9)	22	red	50	2	ESH-CR-R
ESHE (DN 9)	22	blue	50	2	ESH-CR-B

Other coupling series available on request.





Quick Connect Couplings and Fittings for Cleaning Applications

Innovative Systems for Efficient Working



For food processors, hygiene has first priority. Therefore, working surfaces, machines and premises need to be cleaned very often.

The used devices must meet high requirements due to rough operating conditions, cleaning agents and the strict hygiene guidelines.

LUDECKE offers a high quality system adapted to these special requirements. It consists of different fittings (screwing/ quick connect coupling system*) which will be especially adapted to the hoses used for cleaning applications.

**Clean
Connect**
by **LUDECKE**

DVGW
approval
pending

Easy & Efficient

- Ergonomic design for an optimum ease of use
- Easy handling
- High flow rate due to maximum bore

Safe

- Extremely robust, secure and reliable
- High sealing characteristic and durable (ensures high operation times)
- Permanent and leakage-free hose assembly
- No risk of injury due to unsuitable assembly

Hygienic

- Completely made of stainless steel
- High corrosion resistance
- Hygienic smooth surfaces as well as free and clean passage to prevent dirt accumulation
- O-rings which are especially approved for the food industry (VO 1935/2004)

*this hose unit has been developed together with Altmann Industrietechnik



Fittings for Preliminary Cleaning

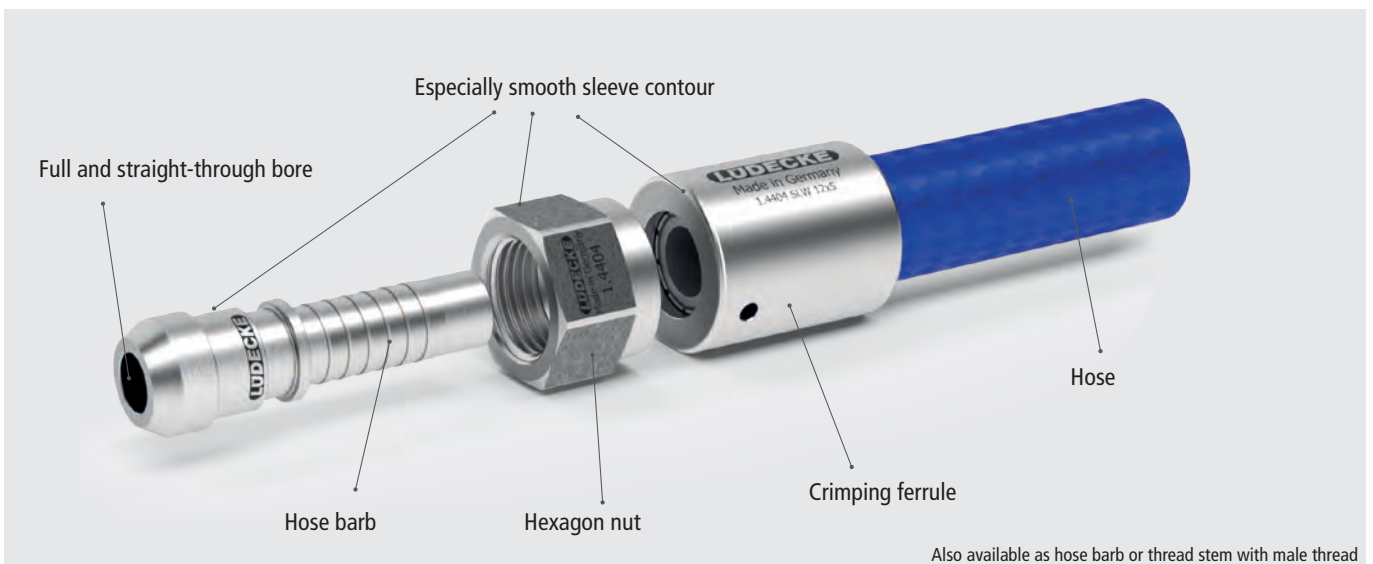


The **LUDECKE** CleanConnect fitting is outstandingly suitable for the use of cleaning agents and high water pressure. It's a high quality and robust fitting for a safe hose assembly.

- High quality hose fitting made of stainless steel 1.4404
- Permanent assembly by hose crimping or re-usable hose squeeze nut
- Full and straight-through passage
- For applications with aggressive cleaning agents (e.g. for the preliminary cleaning)
- For a working pressure of 40 bar as well as operating temperatures up to 150°C

Quality in Every Component

We recommend for the hose fitting a suitable hose, which meets the high requirements of the food industry. To offer you a perfect solution (subject to application) we advise a conversation with our competent sales and technical team.



Also available as hose barb or thread stem with male thread



Flexible Quick Connect Coupling System for Rinsing with Water

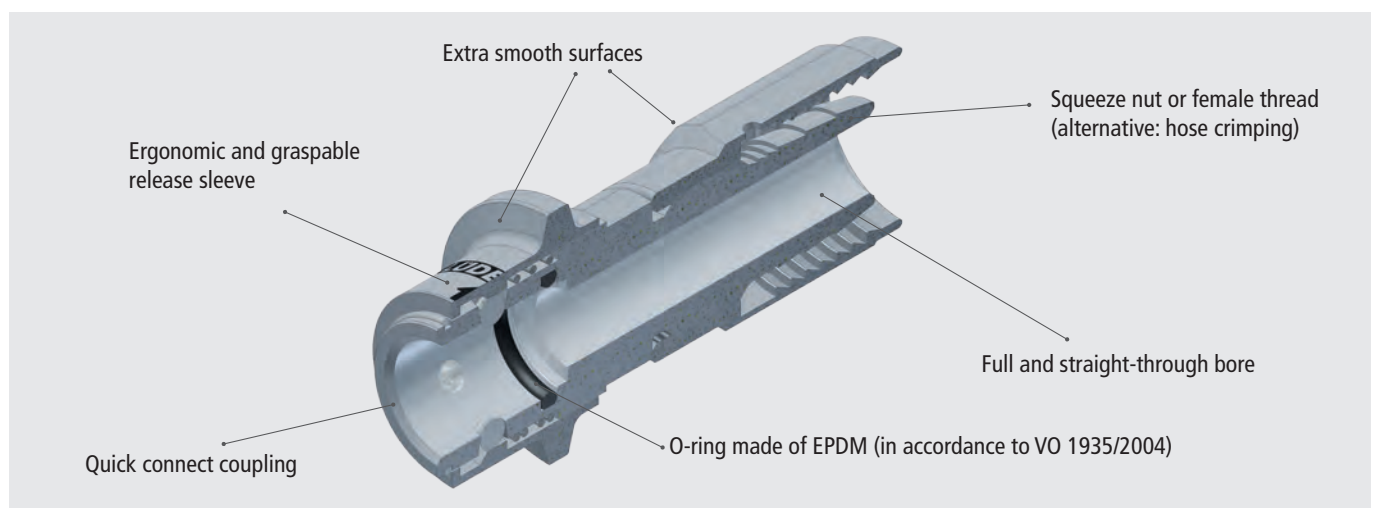


The **LUDECKE** CleanConnect quick connect coupling system is used for applications which require high flexibility (e.g. for rinsing with water). The quick connect coupling contains O-rings which are especially approved for the food industry (VO 1935/2004) and is so designed that it still remains graspable when the surface is wet or when wearing heavy gloves.

- High quality quick connect coupling system of stainless steel 1.4404
- Different connection types (re-usable squeeze nut, permanent hose crimping, female and male threads)
- Full and straight-through bore
- Fast and easy coupling or decoupling
- O-rings in accordance to VO 1935/2004
- For an operating pressure up to 40 bar (subject to temperature and assembly) and operating temperatures up to 140°C

First-Class Materials

We recommend for the quick connect coupling system, a suitable hose, which meets the high requirements of the food industry. To offer you a perfect solution (subject to application) we advise a conversation with our competent sales and technical team.





Simple - Hygienic - Fast



The CleanConnect quick connect coupling is characterized by an especially easy coupling process.

Connect (two-hand operation):

To connect, push the locking sleeve in direction of the hose connection. Press the plug coaxially up to the stop in the coupling. Afterwards the locking sleeve can be released - it locks automatically without support in direction of the plug.

Disconnect:

To disconnect, grasp the plug firmly with one hand. With the other hand push the locking sleeve in direction of the hose connection and separate the connection. The plug can be pulled out of the coupling. The locking sleeve slips automatically back to the starting position.



Overview Quick Connect Couplings / Fittings for Cleaning Applications

Fittings



Series / nominal diameter:

Hose barb:	Stainless Steel 1.4404
Hexagon nut:	Stainless Steel 1.4404
Crimping ferrule:	Stainless Steel 1.4404

Max. Working Pressure: PN 40 bar*

Temperature: up to +150°C

Thread Types: ISO 228

Type of Valve: Straight-through

Page: 320

Quick Connect Couplings



Series / nominal diameter:

ESLGE DN 13

Body:	Stainless Steel 1.4404
Sleeve:	Stainless Steel 1.4404
Springs, retaining ring:	Stainless Steel 1.4571
Balls:	Stainless Steel 1.4401
O-rings:	EPDM
Special seals on request:	FKM
Plug:	Stainless Steel 1.4404

Max. Working Pressure: PN 40 bar*

Temperature: up to + 140°C

Thread Types: ISO 228

Type of Valve: Straight-through

Operation: Two-hands

Page: 321

*Subject to temperature, assembly and hose

NEW!

Fittings for Cleaning Applications

made of Stainless Steel 1.4404



- High-quality hose fitting of stainless steel 1.4404
- Hose fitting for hose crimping consisting of: hose barb with 60° sealing cone and hexagon nut or hose barb with male thread and 60° sealing cone and crimping ferrule
- High pressure and temperature capabilities, absolutely tight and durable
- Hygienic smooth surfaces as well as free and clean passage to prevent dirt accumulation
- For cleaning applications in the food industry (e.g. for application with aggressive cleaning agents), etc.

Materials

- Hose barb, hexagon nut, crimping ferrule, thread stems, double nipple: Stainless steel 1.4404



Max.Working Pressure	Temperature	Thread	Media	
PN 40 bar**	up to +150°C	ISO 228	Water with cleaning agents / steam	5

Hose barbs with 60° sealing cone and hexagon nut for hose crimping

Thread connection	Hose connection	L	SW	L1	L2	Bore	Weight	Type No.
G 1/2 f	Hose i.D. 13	42	27	12	34	9.5	67	STE 1213 PH-...*
G 3/4 f	Hose i.D. 19	69.5	32	16	34	14.5	142	STE 3419 PH-...*

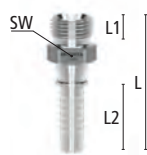
Hose connection with crimping ferrule type PHE (☉ page 320)



Hose barbs with male thread and 60° sealing cone according to ISO 8434-6 for hose crimping

Thread connection	Hose connection	L	SW	L1	L2	Bore	Weight	Type No.
G 1/2 m	Hose i.D. 13	63.5	22	14	34	9.5	57	TAE 1213 PH-...*
G 3/4 m	Hose i.D. 19	66.5	27	16	34	14.5	117	TAE 3419 PH-...*

Hose connection with crimping ferrule type PHE (☉ page 320)



Crimping ferrules (hydraulic crimping)

L	D	D1	Weight	Type No.
37	30	23	61	PHE-13-...*
37	36	29	75	PHE-19-...*



Thread stems with male thread and 60° sealing cone according to ISO 8434-6 and squeeze nut

Thread connection	Hose connection	L	SW	L1	L2	SW1	Bore	Weight	Type No.
G 1/2 m	Hose i.D. 13	71	22	25	14	27	10	168	TAE 1213 TQ-...*
G 3/4 m	Hose i.D. 19	73.5	27	25	16	32	13	245	TAE 3419 TQ-...*



Double Nipples with male threads on both sides

Thread connection	L	SW	L1	L2	Bore	Weight	Type No.
G 1/2 m - G 1/2 m	36	22	14	14	13	56	D 12 E
G 3/4 m - G 3/4 m	40	27	16	16	13	114	D 34 E
G 3/4 m - G 1/2 m	38	27	16	12	13	92	D 3412 E



*the exact article number can be determined upon selection of hose to be used and consulting our sales team

**subject to temperature, assembly and hose

Quick Connect Couplings for Cleaning Applications

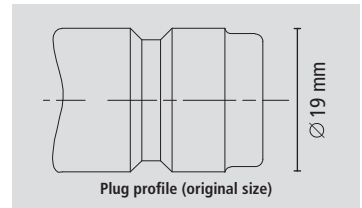
made of Stainless Steel 1.4404 Series ESLGE

- High-quality quick connect couplings made of stainless steel 1.4404
- Easy to couple, high-pressure and temperature capabilities, absolutely tight and durable
- Hygienic smooth surfaces as well as free and clean passage to prevent dirt accumulation
- O-rings which are especially approved for the food sector (VO 1935/2004) and for the drinking water sector (according to elastomer guide line, DVGW W 270, DVGW W 534)
- Different connection types (squeeze nut, hose crimping or female thread)
- For cleaning applications in the food industry, etc.

Materials

- Body, sleeve, plug, crimping ferrule: Stainless steel 1.4404
- Springs, retaining ring: Stainless steel 1.4571
- Balls: Stainless steel 1.4401
- O-Rings: EPDM (others on request)

DN 13



Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 40 bar**	up to +140°C	13	ISO 228	Two-Hand	straight-through	Water with cleaning agents / steam	5

Couplings with squeeze nut

Hose connection	L	SW	D	L1	SW1	Bore	Weight	Type No.
Hose i.D. 13	93.5	24	43	25	27	10	303	ESLGE 13 TQ-...*
Hose i.D. 19	92	27	43	25	32	13	345	ESLGE 19 TQ-...*

Couplings for hose crimping

Hose connection	L	D	L1	Bore	Weight	Type No.
Hose i.D. 13	79	43	34	9.5	187	ESLGE 13 TPH-...*
Hose i.D. 19	79	43	34	13	225	ESLGE 19 TPH-...*

Hose connection with crimping ferrule type PHE (☉ page 320)

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/2 f	50	27	43	10	200	ESLGE 12 I
G 3/4 f	53	32	43	10	220	ESLGE 34 I

Plugs with female thread

Thread connection	L	SW	L1	L2	DS	Weight	Type No.
G 1/2 f	42	27	10	27	19	72	ESLGE 12 NI
G 3/4 f	42.5	32	10	27	19	86	ESLGE 34 NI

Plugs with male thread and 60° sealing cone according to ISO 8434-6

Thread connection	L	SW	L1	L2	DS	Weight	Type No.
G 1/2 m	49	22	14	27	19	66	ESLGE 12 NA
G 3/4 m	51	27	16	27	19	101	ESLGE 34 NA

Plugs with squeeze nut

Hose connection	L	SW	L1	L2	DS	SW1	Weight	Type No.
Hose i.D. 13	84	22	25	27	19	27	173	ESLGE 13 SQ-...*
Hose i.D. 19	84.5	27	25	27	19	32	232	ESLGE 19 SQ-...*

Plugs for ferrule crimping

Hose connection	L	D	L1	DS	Bore	Weight	Type No.
Hose i.D. 13	70.5	22	34	19	9.5	53	ESLGE 13 SPH-...*
Hose i.D. 19	70.5	22	34	19	13	92	ESLGE 19 SPH-...*

Hose connection with crimping ferrule type PHE (☉ page 320)

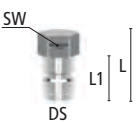
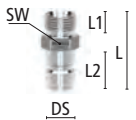
Cap plug

L	SW	L1	DS	Weight	Type No.
40	22	27	19	100	ESLGE-V

*the exact article number can be determined upon selection of hose to be used and consulting our sales team

**subject to temperature, assembly and hose

Clean Connect
by LUDECKE





Claw Couplings The Robust Classic



LUDECKE claw couplings are made of corrosion and acid resist stainless steel 1.4401 and 1.4305. They are manufactured according to investment casting (lost wax casting), which guarantees a smooth and plain surface finish.

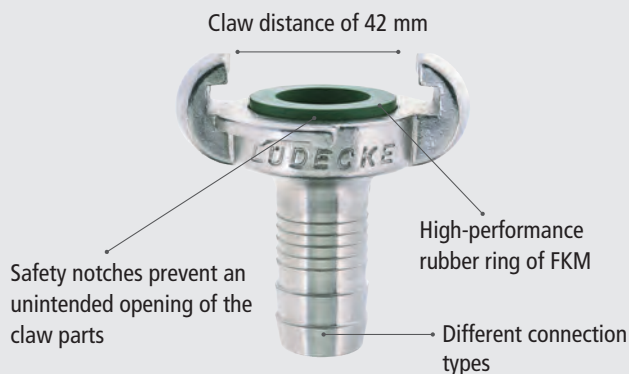
The **LUDECKE** stainless steel range of claw couplings are dedicated for the handling with tough and aggressive media (depending on mixture / concentration) in tank and container manufactures, chemical and petrochemical, as well as food and beverage applications.

Advantages

- High-quality stainless steel
- Robust, reliable, absolutely tight and durable
- Simple and fast handling
- High safety due to MODY-Safety Screwing Coupling
- Identical coupling head: the connection and sealing variations can be coupled among each other
- Optimized flow characteristics due to large bore
- Acid resistant FKM seal

Wide Selection

Hose Claw Coupling



MODY-Safety-Screwing Coupling



We recommend to use a standard claw coupling according to DIN 3489 on one end and a MODY Safety according to DIN 3238 version on the other end. This connection is absolutely safe, easy to couple and 100% tight.



The Coupling Concept: Simply Brilliant

Both claw heads are pushed together so the sealing surfaces are in touch. Then the two ends are turned until the claws are engaged.



To disconnect press the two ends together, twist them backwards to open and take off one end.



To ensure a proper locking, the MODY-Safety-Screwing Coupling is locked with an additional locking nut underneath the claw head.

Overview of the Claw Couplings made of Stainless Steel

Hose Claw Couplings Standard Version

Mody-Safety- Screwing Couplings



Series:

DIN 3489

DIN 3238

Coupling body:

Stainless Steel 1.4401

Stainless Steel 1.4401/
1.4404 / 1.4301

Seals:

FKM
TFEP, EPDM

FKM
TFEP, EPDM

Special seals on request:

Max. Working Pressure:

PN 16 bar

PN 16 bar

Temperature:

-30°C – + 200°C

-30°C – + 200°C

Thread Types:

ISO 228

ISO 228

Claw Distance:

42 mm

42 mm

Page:

324

325

Claw Couplings

Standard Version DIN 3489 made of Stainless Steel 1.4401

- High quality couplings of corrosion and acid-resistant steel 1.4401 with safety notches
- With acid-resistant rubber ring of FKM, other materials (☉ below)
- Couplings investment casted (low wax casting), perfect surface finish
- Maximum bore for maximum flow capacity
- Turned gasket seat, therefore 100 % tight
- Turned stem profile for perfect fit of the hose, 100 % couple-test and sight control
- For aggressive fluids (depending on mixture concentration) in chemical or petrochemical industry, in tank or container-construction, etc.
- For food or drinking water applications use rubber ring type GPOR (with approval for the food processing sector)

Materials:

- Claw, connector: Stainless steel 1.4401
- Thread ferrule: Brass MS 58 chromed
- Chain: Stainless steel 1.4301
- Seal: FKM

Max. Working Pressure	Temperature	Thread	Norm	Claw distance	Media	☉
PN 16 bar	-30°C – +200°C	ISO 228	DIN 3489	42 mm	Chemical media	1

Hose Claw Couplings (DIN 3489)

Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 10	65	63	40	6.5	125	EKT 10 V
Hose i.D. 13	65	63	40	9	129	EKT 13 V
Hose i.D. 19	65	63	40	15	142	EKT 19 V
Hose i.D. 25	65	63	40	20	165	EKT 25 V

Swivelling execution on request.

Female Claw Couplings (DIN 3489)*

Thread connection	L	B	L1	Passage	Weight	Type No.
G 3/8 f	41.5	63	14	15	173	EKI 38 V
G 1/2 f	41.5	63	15	15	163	EKI 12 V
G 3/4 f	41.5	63	16	20	158	EKI 34 V
G 1 f	41.5	63	18	20	160	EKI 10 V

*On request also available with NPT thread against extra charge!

Male Claw Couplings (DIN 3489) with thread protective cap*

Thread connection	L	B	L1	Passage	Weight	Type No.
G 3/8 m	39	63	12	10	148	EKA 38 V
G 1/2 m	39	63	14	14	151	EKA 12 V
G 3/4 m	41.5	63	15	19	155	EKA 34 V
G 1 m	41.5	63	15	20	180	EKA 10 V

*On request also available with NPT thread against extra charge!

Hose Claw Coupling with Thread Ferrule (according to DIN EN 14 424)

Hose connection	L	SW	B	Passage	Weight	Type No.
Hose 13x3	57	24	63	11	170	EKTQ 133 V
Hose 13x5	57	27	63	11	175	EKTQ 135 V
Hose 15x5	57	32	63	13	190	EKTQ 155 V
Hose 19x5	57	32	63	16	195	EKTQ 195 V
Hose 19x6	57	36	63	16	200	EKTQ 196 V
Hose 25x5	62	41	63	22	250	EKTQ 255 V
Hose 25x7	62	46	63	22	260	EKTQ 257 V

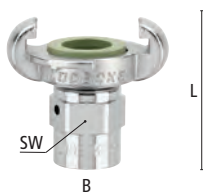
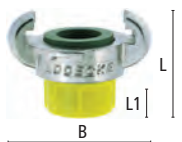
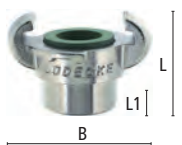
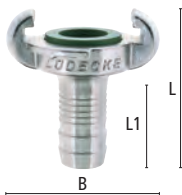
Assembly instructions for thread ferrules (☉ catalogue page 433)

Blank Ends (DIN 3489)

Version	L	B	☉	Weight	Type No.
without chain	42	63		144	EKO V
with chain	42	63		136	EKM V
chain (spare part)	200		10	7	EKMV-K

Original Rubber Ring

Resistance	L	D	D1	Material	Temp.°C	Colour	Shore A	☉	Weight	Type No.
Chem. media	10.5	34	20	FKM	-30 /+200	green	50°	10	9	GVOR
Steam	10	33	20	TFEP	-40 /+200	red	65°	10	6	GDOR
Foods	10.5	34	20	EPDM	-40 /+130	nature	70°	10	9	GPOR



Claw Couplings

MODY-Safety-Screwing Couplings made of Stainless Steel 1.4401

- High quality couplings of corrosion and acid-resistant steel 1.4401 with safety notches
- Easy to couple, secured against unintended opening by screwing the locking nut manually
- With acid-resistant rubber ring of FKM, other materials (☺ below)
- Couplings investment casted (low wax casting), perfect surface finish
- Maximum bore for maximum flow capacity
- Turned gasket seat, therefore 100 % tight
- Turned stem profile for perfect fit of the hose, 100 % couple-test and sight control
- For aggressive fluids (depending on mixture to concentration) in chemical or petrochemical industry, in tank or container-construction, etc.
- For food or drinking water applications use rubber ring type GPOR (with approval for the food processing sector)

Materials:

- Claw: Stainless steel 1.4401
- Connector: Stainless steel 1.4404
- Locking nut: Stainless steel 1.4305
- Crimping ferrule: Brass MS 58 plain
- O-rings: FKM, TFEP

Max. Working Pressure	Temperature	Thread	Norm	Claw distance	Media	☺
PN 16 bar	-30°C – +200°C	ISO 228	DIN 3238	42 mm	Chemical media	1

Mody-Safety-Hose Claw Couplings (DIN 3238)

Hose connection	L	SW	B	L1	Passage	Weight	Type No.
Hose i.D. 13	105	36	63	41	9	337	EKS 13 V
Hose i.D. 19	105	36	63	41	15	350	EKS 19 V
Hose i.D. 25	105	36	63	41	18	380	EKS 25 V

Other sizes on request.

Hose assembly with hose clamps type SLE (☺ page 413)

Mody-Safety-Hose Claw Couplings (DIN 3238) with brass MS 58 safety clamps for steam applications (DIN EN 14 423)

Hose connection	L	B	Passage	Mat. sealing	Weight	Type No.
Hose 13x6	120	63	10	TFEP (SDOR-N)	840	EKS 13 KSM
Hose 19x7	120	63	15	TFEP (SDOR-N)	940	EKS 19 KSM

For Hose 25 x 7.5 (1") on request

Mody-Safety Male Thread Claw Couplings (DIN 3238)

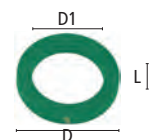
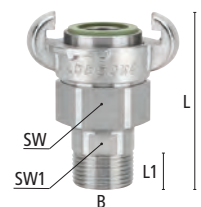
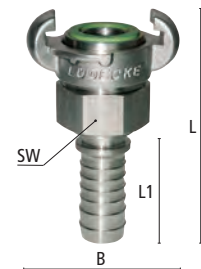
Thread connection	L	SW	B	L1	SW1	Passage	Weight	Type No.
G 1/2 m	77	36	63	12	24	13	320	EKSA 12 V
G 3/4 m	80	36	63	15	24	18	335	EKSA 34 V
G 1 m	82	36	63	15	24	18	370	EKSA 10 V

Mody-Safety Female Thread Claw Couplings (DIN 3238)

Thread connection	L	SW	B	L1	SW1	Passage	Weight	Type No.
G 1/2 f	80	36	63	15	24	18	345	EKSI 12 V
G 3/4 f	95	36	63	15	32	18	430	EKSI 34 V
G 1 f	100	36	63	20	41	18	530	EKSI 10 V

Original Rubber Ring for MODY-Safety Claw Couplings

Resistance	L	D	D1	Material	Temp.°C	Colour	Shore A	Version	☺	Weight	Type No.
Chem. media	4	30	21	FKM	-30 / +200	green	70°	DIN 3238	10	2	SVOR-N
Chem. media	7	32.5	21	FKM	-30 / +200	green	60°	OLD	10	5	SVOR
Steam	4	30	21	TFEP	-40 / +200	red	65°	DIN 3238	10	1.7	SDOR-N
Foods	4	30	21	EPDM	-40 / +130	natur	75°	DIN 3238	10	2	SPOR-N





Chemical and Industrial Fittings

The perfect System for every Application



For applications with aggressive and sophisticated conditions in the chemical and industrial sector (e.g. chemical and petrochemical industry, construction industry, machine and plant manufacturer, shipbuilding, agriculture, steel industry as well as medical technology) **LUDECKE** offers especially resistant and robust fittings.

Advantages:

- High-quality couplings and fittings of stainless steel 1.4401 / 1.4305, steel or brass
- Robust, reliable, absolutely tight and durable
- Simple and fast handling
- Optimized flow characteristics due to large bore
- Different sizes and connection types

Kamlok Quick Couplings and Plugs



Kamlok quick couplings are extremely resistant couplings manufactured with top quality material to connect hoses with each other or with plants. At this asymmetrical coupling system a male and female part is locked by two handles.

This popular coupling system originates from the USA and is based on the US standard MIL-C 27487. Within a general standardization in Europe the DIN EN 14420-7 has been introduced, which replaces the old standard DIN 2828.

LUDECKE offers Kamlok couplings according to both standards. The main difference lies in the hose connection. Using couplings according to the MIL standard, the hose connection is realized with clamps, according to DIN EN 14420-7 with forged safety clamps.



Steam Screwings



For the application with saturated steam or hot water **LUDECKE** offers solid and extreme robust steam screwings made of steel, stainless steel or brass. The steam screwings are available as female and male thread screwings for safety clamps.

Thread Stems



The **LUDECKE** female and male thread stems enable a direct connection for Kamlok quick couplings, tank truck couplings or can be used as adaptor. They are available in brass as well as in stainless steel.

SoftFlow Material Conveying Quick Connect Couplings



The **LUDECKE** SoftFlow material conveying quick connect couplings are a high quality quick coupling system for pressure and vacuum conveying of bulk material or liquids (e.g. for vacuum-conveying of plastic granulate). Because of the quick coupling principle with ball shut-off and the light weight the couplings are especially easy to handle. The coupling body is made of stainless steel for less abrasion.

**Soft
Flow**
by **LUDECKE**







Material Conveying Couplings



At **LUDECKE** you can find exactly adapted coupling systems for vacuum or pressure conveyance of different fluids or solids (granulates etc.). They are available as interior and exterior binding in spiral hoses of different fabrications as well as pipe connection (i.e. for distribution devices).

Overview of the Chemical and Industrial Fittings

	Kamlok Quick Couplings	Steam Screwings	Thread Stems	SoftFlow Material Conveying Quick Connect Couplings
				
Series/Nominal diameter:	DIN EN 14420-7, MIL-C-27487	DIN EN 14 423	DIN EN 14 420-5	DN 41
Sleeve:	-	-	-	Aluminium (hard coated)
Body:	-	Steel zinc pl. yellow pass. Brass MS 58 plain, St. Steel 1.4305	-	-
Clamp:	-	Brass MS 58 plain	-	-
Springs, Rings:	-	-	-	Stainless Steel 1.4310
Balls:	-	-	-	Stainless Steel 1.4034
O-rings:	Buna N	Frenzelit Novatec Special	PTFE	Buna N
Special seals on request:	Hypalon, EPDM, FKM	-	-	-
Handle:	Stainless Steel 1.4401	-	-	-
Coupling body, plug:	Stainless Steel 1.4401	-	Stainless Steel 1.4401	Stainless Steel 1.4305
Max. Working Pressure:	PN 16 bar	PN 18 bar	PN 25 bar	PN 10 bar
Temperature:	-40°C – + 95°C	up to 210°C (satur. steam)/ 120°C (hot water)	-40°C – + 95°C	-15°C – + 95°C
Thread Types:	-	ISO 228/ DIN 2999	ISO 228	ISO 228
Page:	329	334	338	340

Kamlok Quick Couplings and Plugs

DIN EN 14 420-7 made of Stainless Steel 1.4401 electro polished

- High quality, robust couplings acc. to DIN EN 14 420-7 (formerly DIN 2828) for safety clamps
- Interchangeable with world-wide used types
- Surface electro polished, couplings generally with handle securing and safety clips
- Rubber Rings of Buna N, Hypalon, EPDM and FKM and handles as spare parts available
- Hose stem machined
- Replacement seal made of Buna N, Hypalon, EPDM and FKM, as well as handles as spare parts
- **Universal coupling for aggressive fluids (according to concentration) in chemical and petrochemical industry, steel plants, food plants, medicine technique, off-shore or agriculture. EPDM sealing ring with approval for edibles/foods**

Materials:

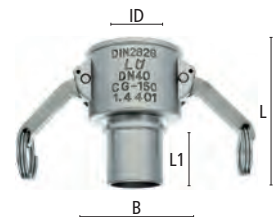
- Female part, male part, handle: Stainless steel 1.4401 electro polished
- O-ring: Buna N

Max. Working Pressure	Temperature	Norm	Media	
PN 16 bar	-40°C – +95°C	DIN EN 14 420-7	different	1

Couplings with hose stem for safety clamps (DIN EN 14 420-7 Form CC)

Hose connection	L	B	Type-Size	ID	L1	Passage	DN	For Clamp	Weight	Type No.
Hose 19x6	77	60	75	32.4	35	14.5	20	KSA 30-33	254	75-CG-SS-BU
Hose 25x6	83	66	100	37.3	35	21	25	KSA 36-39	335	100-CG-SS-BU
Hose 32x6	89	77	125	46	35	27.5	32	KSA 43-46	570	125-CG-SS-BU
Hose 38x6.5	91	82	150	54	34.5	33	40	KSA 50-53	653	150-CG-SS-BU
Hose 50x8	103	95	200	63.8	41	45.5	50	KSA 63-67	894	200-CG-SS-BU
Hose 63x8	120	107	250	76.5	53	58.5	65	KSA 78-82	1273	250-CG-SS-BU
Hose 75x8	127	132	300	92.2	57	70	80	KSA 89-93	1645	300-CG-SS-BU

Aluminium Clamps (© page 75)



Plugs with hose stem for safety clamps (DIN EN 14 420-7 Form EC)

Hose connection	L	Type-Size	ID	L1	Passage	DN	For Clamp	Weight	Type No.
Hose 19x6	70	75	32.1	35	15	20	KSA 30-33	120	75-EG-SS
Hose 25x6	78	100	36.7	35	20.5	25	KSA 36-39	190	100-EG-SS
Hose 32x6	84	125	45.5	35	27.5	32	KSA 43-46	323	125-EG-SS
Hose 38x6.5	85	150	53.4	34.5	33	40	KSA 50-53	400	150-EG-SS
Hose 50x8	100	200	63	41	45	50	KSA 63-67	586	200-EG-SS
Hose 63x8	113	250	75.8	53	56.5	65	KSA 78-82	882	250-EG-SS
Hose 75x8	120	300	91.5	57	70	80	KSA 89-93	1122	300-EG-SS



Current information about standards:

- DIN 2828 is replaced by DIN EN 14 420-7
- New form marking:
 - female part with stem: Form CC
 - female part with female thread: Form DF
 - female part with male thread: Form BF
 - female part with blind cap: Form DC
 - male part with stem: Form EC
 - male part with female thread: Form AF
 - male part with male thread: Form FF
 - male part with sealing plug: Form DP
- The form markings on female and male are adapted accordingly
- Type approval tests and quality control:
 - all types are checked using test jack connectors and defined test criteria
- Producer should be certified according to DIN EN ISO 9001 : 2000
- New maximum operating pressure of 16 bar or application limit of used pipes or hose lines



Kamlok Quick Couplings

DIN EN 14 420-7, MIL-C-27487 made of Stainless Steel 1.4401

- High quality, robust couplings acc. to US-Mil.-Standard (MIL-C-27487) or DIN EN 14 420-7 (formerly DIN 2828)
- Interchangeable with world-wide used types
- Female threads with thread sealing ring of PTFE
- Seals of Buna N, Hypalon, EPDM and FKM and handles as spare parts
- Couplings generally with handle securing and safety clips (steel, zinc-plated)
- **Universal coupling for aggressive fluids (according to concentration) in chemical- and petrochemical industry, steel plants, food plants, medicine technique, off-shore or agriculture**
- **Current information about standards for DIN EN 14 420-7 (☺ Page 329)**

Materials:

- Female part, male part, handle: Stainless steel 1.4401
- O-rings: Buna N

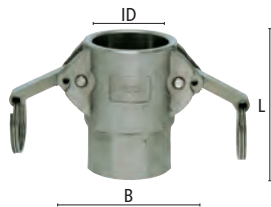
Max. Working Pressure	Temperature	Thread	Norm	Media	
PN 16 bar	-40°C – +95°C	ISO 228 / DIN 2999	MIL-C-27487/ DIN EN 14 420-7	different	1

Couplings with hose stem (MIL-C-27487)



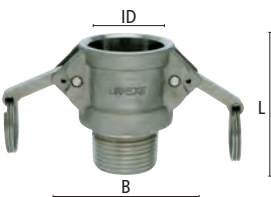
Hose connect.	L	B	Type-Size	ID	Passage	DN	System	Weight	Type No.
Hose i.D. 13	86	40	50	24.5	8	15	one handle w/o safety clip	150	50-C-SS-BU
Hose i.D. 19	82	63	75	32.4	14	20	two handles w safety clip	238	75-C-SS-BU
Hose i.D. 25	97	72	100	37.3	20	25	two handles w safety clip	358	100-C-SS-BU
Hose i.D. 32	108	83	125	46	25.5	32	two handles w safety clip	600	125-C-SS-BU
Hose i.D. 38	112	90	150	54	32	40	two handles w safety clip	723	150-C-SS-BU
Hose i.D. 50	130	102	200	63.8	44	50	two handles w safety clip	846	200-C-SS-BU
Hose i.D. 63	136	119	250	76.5	56.5	65	two handles w safety clip	1214	250-C-SS-BU
Hose i.D. 75	162	135	300	92.2	75	80	two handles w safety clip	1834	300-C-SS-BU
Hose i.D. 100	163	174	400	120.3	95	100	two handles w safety clip	3045	400-C-SS-BU

Couplings with female thread and thread sealing ring (DIN EN 14 420-7 Form DF)



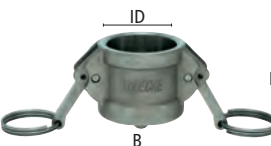
Thread connect.	L	B	Type-Size	ID	Passage	DN	System	Weight	Type No.
G 1/2 f	45	40	50	24.5	15	15	one handle w/o safety clip	147	50-D-SS-BU
G 3/4 f	51	63	75	32.4	17.5	20	two handles w safety clip	265	75-D-SS-BU
G 1 f	62	72	100	37.3	23	25	two handles w safety clip	398	100-D-SS-BU
G 1 1/4 f	70	83	125	46	31	32	two handles w safety clip	773	125-D-SS-BU
G 1 1/2 f	71	90	150	54	37	40	two handles w safety clip	817	150-D-SS-BU
G 2 f	78	102	200	63.8	47	50	two handles w safety clip	880	200-D-SS-BU
G 2 1/2 f	77	119	250	76.5	62	65	two handles w safety clip	1221	250-D-SS-BU
G 3 f	91	135	300	92.2	75	80	two handles w safety clip	1802	300-D-SS-BU
G 4 f	85	174	400	120.3	103	100	two handles w safety clip	2354	400-D-SS-BU

Couplings with male thread (DIN EN 14 420-7 Form BF)



Thread connect.	L	B	Type-Size	ID	Passage	DN	System	Weight	Type No.
R 1/2 m	47	40	50	24.5	14	15	one handle w/o safety clip	130	50-B-SS-BU
R 3/4 m	54	63	75	32.4	19	20	two handles w safety clip	233	75-B-SS-BU
R 1 m	64	72	100	37.3	25	25	two handles w safety clip	343	100-B-SS-BU
R 1 1/4 m	70	83	125	46	32	32	two handles w safety clip	592	125-B-SS-BU
R 1 1/2 m	71	90	150	54	38	40	two handles w safety clip	694	150-B-SS-BU
R 2 m	77	102	200	63.8	51	50	two handles w safety clip	708	200-B-SS-BU
R 2 1/2 m	85	119	250	76.5	63	65	two handles w safety clip	1007	250-B-SS-BU
R 3 m	95	135	300	92.2	75	80	two handles w safety clip	1438	300-B-SS-BU
R 4 m	90	174	400	120.3	102	100	two handles w safety clip	1988	400-B-SS-BU

Dust cap (DIN EN 14 420-7 Form DC)



L	B	Type-Size	ID	DN	System	Weight	Type No.
42	40	50	24.5	15	one handle w/o safety clip	123	50-DC-SS-BU
42	63	75	32.4	20	two handles w safety clip	183	75-DC-SS-BU
49	72	100	37.3	25	two handles w safety clip	274	100-DC-SS-BU
57	83	125	46	32	two handles w safety clip	493	125-DC-SS-BU
59	90	150	54	40	two handles w safety clip	559	150-DC-SS-BU
63	102	200	63.8	50	two handles w safety clip	756	200-DC-SS-BU
67	119	250	76.5	65	two handles w safety clip	897	250-DC-SS-BU
70	135	300	92.2	80	two handles w safety clip	1296	300-DC-SS-BU
70	174	400	120.3	100	two handles w safety clip	1898	400-DC-SS-BU

Kamlok Quick Plugs

made of Stainless Steel 1.4401

Plugs with hose stem (MIL-C-27487)

Hose connect.	L	Type-Size	ID	Passage	DN	Weight	Type No.
Hose i.D. 13	87	50	24	8	15	120	50-E-SS
Hose i.D. 19	88	75	32.1	14	20	171	75-E-SS
Hose i.D. 25	103	100	36.7	20	25	284	100-E-SS
Hose i.D. 32	110	125	45.5	25	32	442	125-E-SS
Hose i.D. 38	116	150	53.4	32	40	563	150-E-SS
Hose i.D. 50	146	200	63	43	50	812	200-E-SS
Hose i.D. 63	148	250	75.8	56	65	1186	250-E-SS
Hose i.D. 75	167	300	91.5	67	80	1815	300-E-SS
Hose i.D. 100	175	400	119.5	93	100	2945	400-E-SS



Plugs with female thread and thread sealing ring (DIN EN 14 420-7 Form AF)

Thread connect.	L	Type-Size	ID	Passage	DN	Weight	Type No.
G 1/2 f	41	50	24	14	15	76	50-A-SS
G 3/4 f	42	75	32.1	22	20	171	75-A-SS
G 1 f	52	100	36.7	24	25	222	100-A-SS
G 1 1/4 f	58	125	45.5	29	32	386	125-A-SS
G 1 1/2 f	62	150	53.4	38	40	493	150-A-SS
G 2 f	71	200	63	51	50	644	200-A-SS
G 2 1/2 f	75	250	75.8	58	65	945	250-A-SS
G 3 f	79	300	91.5	74	80	1320	300-A-SS
G 4 f	81	400	119.5	97	100	2118	400-A-SS



Plugs with male thread (DIN EN 14 420-7 Form FF)

Thread connect.	L	Type-Size	ID	Passage	DN	Weight	Type No.
R 1/2 m	49	50	24	14	15	103	50-F-SS
R 3/4 m	64	75	32.1	22	20	185	75-F-SS
R 1 m	72	100	36.7	24	25	258	100-F-SS
R 1 1/4 m	81	125	45.5	29	32	477	125-F-SS
R 1 1/2 m	82	150	53.4	38	40	565	150-F-SS
R 2 m	90	200	63	51	50	650	200-F-SS
R 2 1/2 m	105	250	75.8	58	65	1317	250-F-SS
R 3 m	104	300	91.5	74	80	1766	300-F-SS
R 4 m	114	400	119.5	97	100	2804	400-F-SS



Dust Plugs (DIN EN 14 420-7 Form DP)

L	Type-Size	ID	DN	Weight	Type No.
36	50	24	15	73	50-DP-SS
39	75	32.1	20	93	75-DP-SS
46	100	36.7	25	139	100-DP-SS
55	125	45.5	32	260	125-DP-SS
57	150	53.4	40	335	150-DP-SS
60	200	63	50	441	200-DP-SS
66	250	75.8	65	657	250-DP-SS
66	300	91.5	80	804	300-DP-SS
68	400	119.5	100	1525	400-DP-SS



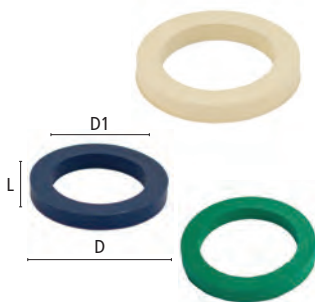
Spare Parts for Kamlok Quick Couplings

DIN EN 14 420-7, US MIL-Norm C-27487

- Replacement seals, thread sealing rings, handle and chain

Materials:

- Sealing rings, thread sealing rings: see below
- Handle: Stainless steel 1.4401
- Chain: Stainless steel 1.4301



Max. Working Pressure	Temperature	Norm	Media
PN 16 bar	-40°C – + 95°C	MIL-C-27487/ DIN EN 14 420-7	different

Sealing Rings for Kamlok-Couplings

Material: Buna N

Colour: black

L	D	Type-Size	D1	DN	⊞	Weight	Type No.
4	27	50	17.5	15	10	2	EDR-50-BU
5.5	35	75	22	20	10	4	EDR-75-BU
6.5	39	100	27	25	10	6	EDR-100-BU
6.5	49	125	34.5	332	10	8	EDR-125-BU
6.5	55	150	41	40	10	9	EDR-150-BU
6.5	66	200	51	50	10	12	EDR-200-BU
6.5	79	250	60	65	10	19	EDR-250-BU
6.5	95	300	76	80	10	21	EDR-300-BU
6.5	124	400	101	100	10	37	EDR-400-BU

Thread Sealing Rings for female thread parts according to DIN EN 14 420-5 or 14 420-7

Material: PTFE

L	D	Type-Size	D1	⊞	Weight	Type No.
2	21	50	15	10	1	GDR-50-PTFE
2	26	75	18	10	1	GDR-75-PTFE
2	33	100	23	10	2	GDR-100-PTFE
2	42	125	32	10	2	GDR-125-PTFE
2	48	150	38	10	3	GDR-150-PTFE
2	60	200	49	10	3	GDR-200-PTFE
2	76	250	63	10	4	GDR-250-PTFE
2	88	300	77	10	5	GDR-300-PTFE
2	114	400	100	10	6	GDR-400-PTFE

Sealing Rings of PTFE for female thread fittings of stainless steel

Sealing Rings of PUR for female thread fittings of brass

Handle complete with safety ring and slotted pin for stainless steel Kamlok-Couplings



Type-Size	⊞	Weight	Type No.
50-75	10	19	KAH 1
100	10	29	KAH 2
125, 150, 200, 250	10	68	KAH 3
300, 400	10	110	KAH 4

Chain of stainless steel for Dust Caps and -Plugs



L	⊞	Weight	Type No.
200	10	7	EKMV-K

Spare Parts for Kamlok Quick Couplings

DIN EN 14 420-7, US MIL-Norm C-27487

Hypalon		EPDM		FKM		Teflon-packed (U-form) with EPDM-core
Colour:	blue	Colour:	yellow	Colour:	green	
Type No.	Type No.	Type No.	Type No.	Type No.	Type No.	
EDR-50-HYP*	EDR-50-EPDM*	EDR-50-FPM*	-	-	-	
EDR-75-HYP	EDR-75-EPDM	EDR-75-FPM	EDR-75-EPPT			1
EDR-100-HYP	EDR-100-EPDM	EDR-100-FPM	EDR-100-EPPT			1
EDR-125-HYP	EDR-125-EPDM	EDR-125-FPM	EDR-125-EPPT			1
EDR-150-HYP	EDR-150-EPDM	EDR-150-FPM	EDR-150-EPPT			1
EDR-200-HYP	EDR-200-EPDM	EDR-200-FPM	EDR-200-EPPT			1
EDR-250-HYP*	EDR-250-EPDM*	EDR-250-FPM*	EDR-250-EPPT			1
EDR-300-HYP	EDR-300-EPDM	EDR-300-FPM	EDR-300-EPPT			1
EDR-400-HYP*	EDR-400-EPDM*	EDR-400-FPM*	EDR-400-EPPT			1

*black with colour coding

PUR	
Type No.	
GDR-50-PUR	
GDR-75-PUR	
GDR-100-PUR	
GDR-125-PUR	
GDR-150-PUR	
GDR-200-PUR	
GDR-250-PUR	
GDR-300-PUR	
GDR-400-PUR	

Steam Screwings

Thread Screwings (DIN EN 14 423)

- Solid, extreme robust female and male thread screwings made of steel, stainless steel 1.4305 or brass for steam hoses incl. safety clamps made of brass, according to DIN EN 14 423 (formerly DIN 2826)
- Female thread screwing two parts, swivelling, connecting nut flat sealing with female thread sealing ring Frenzelit Novatec Special
- Screws for safety clamps DIN 912-12.9 (Dacro 500A coated)
- Pressure-temperature table saturated steam (☺ Page 434)
- **To be used for saturated steam up to +210°C, or hot water up to +120°C and up to 18 bar working pressure**

Materials:

- Connector: Steel zinc-plated and yellow passivated (free of chrome VI)/ Brass MS 58 plain/ Stainless Steel 1.4305
- Safety clamp: Brass MS 58 plain
- Sealing: Frenzelit Novatec Special

Max. Working Pressure	Temperature	Thread	Norm	Media	
PN 18 bar	sat. steam +210°C/ hot water +120°C	ISO 228/DIN 2999	DIN EN 14 423	sat. steam / hot water	1

Male thread screwings of steel (zinc-plated and yellow passivated, free of chrome VI) with safety clamp of brass

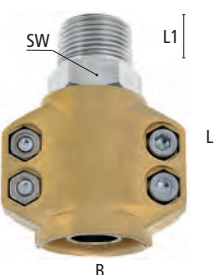
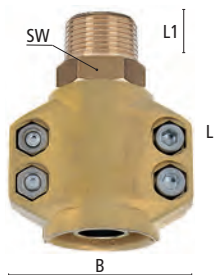
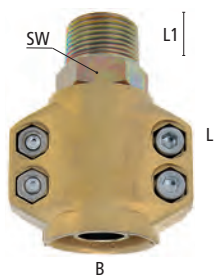
Hose connect.	Thread connect.	L	SW	B	L1	DN	Passage	Weight	Type No.
Hose 13x6	R 1/2 m	95	22	53	16	15	9	447	DAK 12-13 ST
Hose 19x7	R 3/4 m	95	27	68	17	20	14	700	DAK 34-19 ST
Hose 25x7.5	R 1 m	100	36	77	21	25	20	933	DAK 10-25 ST
Hose 38x8	R 1 1/2 m	125	50	101	22	40	33	1940	DAK 15-38 ST
Hose 50x9	R 2 m	140	60	111	26	50	44	2631	DAK 20-50 ST

Male thread screwings of brass MS 58 with safety clamp of brass

Hose connect.	Thread connect.	L	SW	B	L1	DN	Passage	Weight	Type No.
Hose 13x6	R 1/2 m	95	22	53	16	15	9	447	DAK 12-13 MS
Hose 19x7	R 3/4 m	95	27	68	17	20	14	700	DAK 34-19 MS
Hose 25x7.5	R 1 m	100	36	77	21	25	20	940	DAK 10-25 MS
Hose 38x8	R 1 1/2 m	125	50	101	22	40	33	1940	DAK 15-38 MS
Hose 50x9	R 2 m	140	60	111	26	50	44	2631	DAK 20-50 MS

Male thread screwings of stainless steel 1.4305 with safety clamps of brass

Hose connect.	Thread connect.	L	SW	B	L1	DN	Passage	Weight	Type No.
Hose 13x6	R 1/2 m	95	22	53	11	15	9	460	DAK 12-13 SS
Hose 19x7	R 3/4 m	95	27	68	15	20	14	530	DAK 34-19 SS
Hose 25x7.5	R 1 m	100	36	77	16	25	20	670	DAK 10-25 SS



Steam Screwings

Thread Screwings (DIN EN 14 423)

Female thread screwings of steel (zinc-plated and yellow passivated, free of chrome VI) with safety clamp of brass

Hose connect.	Thread connect.	L	SW	B	L1	DN	Passage	Weight	Type No.
Hose 13x6	G 1/2 f	88	27	53	11	15	9	480	DIK 12-13 ST
Hose 19x7	G 3/4 f	92	32	68	15	20	14	680	DIK 34-19 ST
Hose 25x7.5	G 1 f	93	41	77	16	25	20	1022	DIK 10-25 ST
Hose 38x8	G 1 1/2 f	120	55	101	18	40	33	1930	DIK 15-38 ST
Hose 50x9	G 2 f	131	70	111	19	50	44	2613	DIK 20-50 ST

(Attention: Replace female thread sealing ring when screwing is reused!)

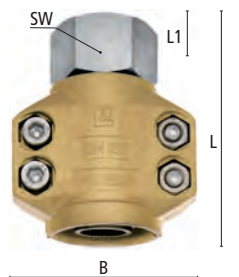
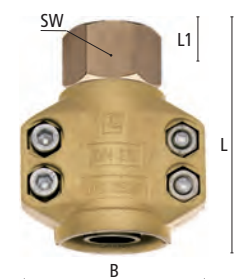
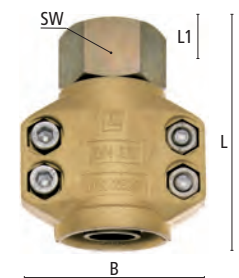
Female thread screwings of brass MS 58 with safety clamp of brass

Hose connect.	Thread connect.	L	SW	B	L1	DN	Passage	Weight	Type No.
Hose 13x6	G 1/2 f	88	27	53	11	15	9	480	DIK 12-13 MS
Hose 19x7	G 3/4 f	92	32	68	15	20	14	680	DIK 34-19 MS
Hose 25x7.5	G 1 f	93	41	77	16	25	20	1022	DIK 10-25 MS
Hose 38x8	G 1 1/2 f	120	55	101	18	40	33	1930	DIK 15-38 MS
Hose 50x9	G 2 f	131	70	111	19	50	44	2613	DIK 20-50 MS

(Attention: Replace female thread sealing ring when screwing is reused!)

Female thread screwings of stainless steel 1.4305 with safety clamp of brass

Hose connect.	Thread connect.	L	SW	B	L1	DN	Passage	Weight	Type No.
Hose 13x6	G 1/2 f	88	27	53	11	15	9	530	DIK 12-13 SS
Hose 19x7	G 3/4 f	92	32	68	15	20	14	700	DIK 34-19 SS
Hose 25x7.5	G 1 f	93	41	77	16	25	20	950	DIK 10-25 SS



Steam Screwings

Female and Male Thread Stems for Hose Fittings with Clamp Frame (DIN EN 14 423)

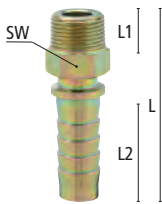
- Massive, very robust female and male thread stems made of steel, stainless steel 1.4305 or brass according to DIN EN 14 423 (formerly DIN 2826)
- For combination with safety clamps KSM (☺ Page 337)
- Pressure-Temperature-Table saturated steam (☺ Page 434)
- [For the application with saturated steam up to + 210°C, or hot water up to + 120°C and up to 18 bar working pressure](#)

Materials:

- Thread stems: Steel zinc-plated and yellow passivated (free of chrome VI)/ Brass MS 58 plain/ Stainless Steel 1.4305
- Seals: Frenzelit Novatec Special

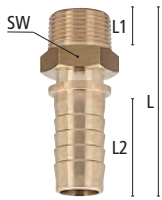
Max. Working Pressure	Temperature	Thread	Norm	Media
PN 18 bar	sat. steam +210°C/ hot water +120°C	ISO 228/ DIN 2999	DIN EN 14423	sat. steam / hot water

Male thread stems of steel (zinc-plated and yellow passivated, free of chrome VI)



Hose connect.	Thread connect.	L	SW	L1	L2	Passage	DN	System	☐	Weight	Type No.
Hose 13x6	R 1/2 m	90	22	16	52	9	15	KSM 12 D	10	110	DA 12-13 ST
Hose 19x7	R 3/4 m	91	27	17	52	14	20	KSM 34 D	10	170	DA 34-19 ST
Hose 25x7.5	R 1 m	95	36	21	52	20	25	KSM 10 D	10	270	DA 10-25 ST
Hose 38x8	R 1 1/2 m	118	50	22	72	33	40	KSM 15 D	5	510	DA 15-38 ST
Hose 50x9	R 2 m	131	60	26	75	44	50	KSM 20 D	1	830	DA 20-50 ST

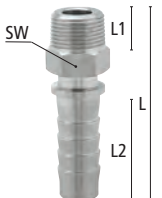
Male thread stems of brass MS 58



Hose connect.	Thread connect.	L	SW	L1	L2	Passage	DN	System	☐	Weight	Type No.
Hose 13x6	R 1/2 m	90	22	16	52	9	15	KSM 12 D	10	120	DA 12-13 MS
Hose 19x7	R 3/4 m	91	27	17	52	14	20	KSM 34 D	10	185	DA 34-19 MS
Hose 25x7.5	R 1 m	95	36	21	52	20	25	KSM 10 D	10	280	DA 10-25 MS
Hose 38x8	R 1 1/2 m	118	50	22	72	33	40	KSM 15 D	5	550	DA 15-38 MS
Hose 50x9	R 2 m	131	60	26	75	44	50	KSM 20 D	1	900	DA 20-50 MS

Other dimensions on request

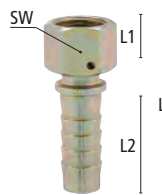
Male thread stems of stainless steel 1.4305



Hose connect.	Thread connect.	L	SW	L1	L2	Passage	DN	System	☐	Weight	Type No.
Hose 13x6	R 1/2 m	90	22	16	52	9	15	KSM 12 D	10	115	DA 12-13 SS
Hose 19x7	R 3/4 m	91	27	17	52	14	20	KSM 34 D	10	175	DA 34-19 SS
Hose 25x7.5	R 1 m	95	36	21	52	20	25	KSM 10 D	10	270	DA 10-25 SS

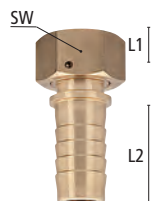
Other dimensions on request

Female thread stems of steel (zinc-plated and yellow passivated, free of chrome VI)



Hose connect.	Thread connect.	L	SW	L1	L2	Passage	DN	System	☐	Weight	Type No.
Hose 13x6	G 1/2 f	82.5	27	11	52	9	15	KSM 12 D	10	125	DI 12-13 ST
Hose 19x7	G 3/4 f	86.5	32	15	52	14	20	KSM 34 D	10	180	DI 34-19 ST
Hose 25x7.5	G 1 f	87.5	41	16	52	20	25	KSM 10 D	10	280	DI 10-25 ST
Hose 38x8	G 1 1/2 f	111.5	55	18	72	33	40	KSM 15 D	5	515	DI 15-38 ST
Hose 50x9	G 2 f	119.5	70	19	75	44	50	KSM 20 D	1	810	DI 20-50 ST

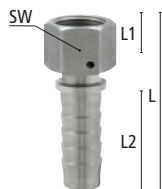
Female thread stems of brass MS 58



Hose connect.	Thread connect.	L	SW	L1	L2	Passage	DN	System	☐	Weight	Type No.
Hose 13x6	G 1/2 f	82.5	27	11	52	9	15	KSM 12 D	10	130	DI 12-13 MS
Hose 19x7	G 3/4 f	86.5	32	15	52	14	20	KSM 34 D	10	200	DI 34-19 MS
Hose 25x7.5	G 1 f	87.5	41	16	52	20	25	KSM 10 D	10	320	DI 10-25 MS
Hose 38x8	G 1 1/2 f	111.5	55	18	72	33	40	KSM 15 D	5	570	DI 15-38 MS
Hose 50x9	G 2 f	119.5	70	19	75	44	50	KSM 20 D	1	890	DI 20-50 MS

Other dimensions on request

Female thread stems of stainless steel 1.4305



Hose connect.	Thread connect.	L	SW	L1	L2	Passage	DN	System	☐	Weight	Type No.
Hose 13x6	G 1/2 f	82.5	27	11	52	9	15	KSM 12 D	10	155	DI 12-13 SS
Hose 19x7	G 3/4 f	86.5	32	15	52	14	20	KSM 34 D	10	185	DI 34-19 SS
Hose 25x7.5	G 1 f	87.5	41	16	52	20	20	KSM 10 D	10	265	DI 10-25 SS

Steam Screwings

Safety Clamps and Sealing Rings, Brass MS 58 (DIN EN 14 423)

- High-quality, robust safety clamps made of brass (DIN EN 14 423/ formerly DIN 2826)
- Simple, safe and detachable hose connection for steam screwings
- Packed loose incl. screws and nuts

Materials:

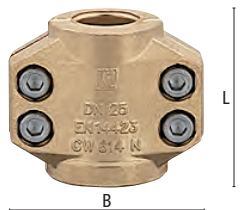
- Clamp: Brass MS 58 plain
- Screws: Dacro 500 A coated



Max. Working Pressure	Temperature	Norm	
PN 18 bar	sat. steam +210°C/ hot water +120°C	DIN EN 14 423	1

Safety clamps of brass MS 58 (screws DIN 912-12.9 - Dacro 500 A coated)

Hose-o.D./							
Hose connection	Clamping range	L	B	DN	Screw Size	Weight	Type No.
Hose 13x6	24-27	65	53	15	M 6x20	336	KSM 12 D
Hose 19x7	32-35	65	68	20	M 8x25	499	KSM 34 D
Hose 25x7.5	39-42	65	77	25	M 8x25	742	KSM 10 D
Hose 38x8	53-56	90	101	40	M 10x40	1430	KSM 15 D
Hose 50x9	64-68	100	111	50	M 10x40	1756	KSM 20 D



Suitable for male and female thread stems DIN 14 423 (© page 336)

Original sealing rings Frenzelit Novatec Spezial for female threads

Version	L	D	D1		Weight	Type No.
G 1/2 f	2	20	13	10	2	DGI 12
G 3/4 f	2	26	18	10	2	DGI 34
G 1 f	2	33	23	10	3	DGI 10
G 1 1/2 f	2	48	38	10	5	DGI 15
G 2 f	2	60	49	10	7	DGI 20

Hose Assembly of Hose Lines according to DIN EN 14 423

1. Push the hose stem (brushed with lubricant if needed) into a square coated hose.
At hoses with marking M the metallic conductor has to be connected with the screwing.
There should be a short distance between safety collar and hose end to take hose material compressed during assembly.
2. Clamp halves are put in safety collar around the hose and fixed over cross with assembly-help screws.
3. Put in clamp screws and fix over cross.
4. A small, parallel slit should remain between clamp halves.
5. After putting the hose into operation the screws should be fixed again.

Current information about standards:

- DIN 2826 is replaced by DIN EN 14 423.
- The form markings on the parts are adapted accordingly.
- All types are checked using defined test criteria.
- Producer should be certified according to DIN EN ISO 9001 : 2000.

Safety Clamps

made of Forged Aluminium (DIN EN 14 420-3)

- High quality, robust clamps of forged aluminium (DIN EN 14 420-3)
- Easy, safe and removable hose assembly of safety clamps fittings
- Packed loose incl. screws and nuts

Materials

- Safety clamps: Forged aluminium
- Screws: Dacro 500 A coated



Max. Working Pressure	Temperature	Norm	
PN 25 bar	-40°C – +95°C	DIN EN 14 420-3	1

Safety Clamps

Hose connection	Hose-o.D./Range	L	B	DN	Screws	Weight	Type No.
Hose 19x6	30-33	50	63	20	M 6x20	142	KSA 30-33
Hose 25x6	36-39	50	69	25	M 6x20	151	KSA 36-39
Hose 32x6	43-46	50	76	32	M 6x20	162	KSA 43-46
Hose 38x6.5	50-53	50	83	40	M 6x20	167	KSA 50-53
Hose 50x8	63-67	56	102	50	M 8x25	310	KSA 63-67
Hose 63x8	78-82	74	120	65	M 8x25	454	KSA 78-82
Hose 75x8	89-93	76	132	80	M 8x25	486	KSA 89-93
Hose 75x10	94-97	76	140	80	M 8x25	580	KSA 94-97

Other sizes on request

Hose assembly of safety clamps and hose fittings

1. Hose stem brushed with lubricant is pressed into straight-cut hose
2. Clamp halves are put in safety collar around the hose and fixed with care in a vice
3. 4 Screws are fixed regularly (rightly dimensioned hoses keep a small slit between clamp halves)

Thread Stems

made of Brass MS 58 (DIN EN 14 420-5)

- High quality, robust male thread hose stems made of brass MS 58 (DIN EN 14 420-5/ formerly DIN 2817)
- Lightly grooved hose stem with safety collar for forged clamps
- For direct connection or as adaptor for Kamlok quick couplings, tank truck couplings, etc.
- **To be used for petrochemical industry, water in industry, tank trucks or agriculture, etc.**

Materials:

- Thread stems: Brass MS 58 plain

Max. Working Pressure	Temperature	Thread	Norm	Media	
PN 25 bar	-40°C – +95°C	ISO 228	DIN EN 14 420-5	different	1

Male thread stems for safety clamps

Hose connect.	Thread connect.	L	SW	L1	L2	Passage	DN	System	Weight	Type No.
Hose 13x5	G 1/2 m	62	22	12	35	9	15	-	70	GTA 12-13 MS
Hose 19x6	G 3/4 m	63.5	27	13	34.5	14	20	KSA 30-33	105	GTA 34-19 MS
Hose 25x6	G 1 m	65	36	14	35	20.5	25	KSA 36-39	168	GTA 10-25 MS
Hose 32x6	G 1 1/4 m	66	46	15	35	27.5	32	KSA 43-46	215	GTA 54-32 MS
Hose 38x6.5	G 1 1/2 m	73.5	55	18	37	33	40	KSA 50-53	382	GTA 15-38 MS
Hose 50x8	G 2 m	80	65	20	40	45	50	KSA 63-67	537	GTA 20-50 MS



Thread Stems

Stainless Steel 1.4401 electro polished (DIN EN 14 420-5)

- High quality, robust female and male-thread hose stems of stainless steel electro polished (DIN EN 14 420-5/ formerly DIN 2817)
- Surface electro polished, stems finished
- Plain hose stem with safety collar for forged clamps
- Female threads flat sealing with thread-sealing ring of PTFE
- For direct connection or as adaptor for Kamlok quick couplings, tank truck couplings etc.
- For the connection with safety clamps Typ KSA (☺page 338)
- For aggressive fluids (according to concentration) in chemical and petrochemical industry, steel plants or food plants, medicine technique, off-shore or agriculture

Materials:

- Thread stem: Stainless steel 1.4401 electro polished

Max. Working Pressure	Temperature	Thread	Norm	Media	
PN 25 bar	-40°C – +95°C	ISO 228	DIN EN 14 420-5	different	1

Male thread stems for safety clamps

Hose connect.	Thread connect.	L	SW	Passage	DN	System	Weight	Type No.
Hose 19x6	G 3/4 m	62	27	15	20	KSA 30-33	99	GTA 34-19 SS
Hose 25x6	G 1 m	63	36	20.5	25	KSA 36-39	148	GTA 10-25 SS
Hose 32x6	G 1 1/4 m	63.5	46	27.5	32	KSA 43-46	210	GTA 54-32 SS
Hose 38x6.5	G 1 1/2 m	66.5	55	33	40	KSA 50-53	290	GTA 15-38 SS
Hose 50x8	G 2 m	75.5	*	45	50	KSA 63-67	395	GTA 20-50 SS
Hose 63x8	G 2 1/2 m	94.5	*	58	65	KSA 78-82	655	GTA 25-63 SS
Hose 75x8	G 3 m	97.5	*	70	80	KSA 89-93	775	GTA 30-75 SS

* For hooking according to DIN 1810

Female thread stems for safety clamps (two parts screwing)

Hose connect.	Thread connect.	L	SW	Passage	DN	System	Weight	Type No.
Hose 19x6	G 3/4 f	60	30	15	20	KSA 30-33	92	GTI 34-19 SS
Hose 25x6	G 1 f	62	36	21	25	KSA 36-39	126	GTI 10-25 SS
Hose 32x6	G 1 1/4 f	64	46	28	32	KSA 43-46	190	GTI 54-32 SS
Hose 38x6.5	G 1 1/2 f	67	55	33	40	KSA 50-53	322	GTI 15-38 SS
Hose 50x8	G 2 f	77	65	45	50	KSA 63-67	440	GTI 20-50 SS
Hose 63x8	G 2 1/2 f	91	85	58	65	KSA 78-82	837	GTI 25-63 SS
Hose 75x8	G 3 f	100	100	70	80	KSA 89-93	1211	GTI 30-75 SS

Current information about standards:

- DIN 2817 is replaced by DIN EN 14 420-5
- The form markings on thread stems are adapted
- All types are checked using defined test criteria
- Producer should be certified according to DIN EN ISO 9001 : 2000
- New maximum operating pressure of 25 bar or application limit of used hose lines



Material Conveying Couplings

At **LUDECKE** you can find exactly adapted coupling systems for vacuum or pressure conveyance of different fluids or solids (granulates etc.). They are available as interior and exterior binding in spiral hoses of different fabrications as well as pipe connection (i.e. for distribution devices).

Material: Aluminium, stainless steel, steel



Sizes: 1" to 4"

Mostly with male thread for screwing on of coupling systems Storz, Guillemin or tank truck couplings or with direct coupling adaptor system Kamlok

- Our adaptor systems are used successfully mainly in the plastics industry and in agriculture.

SoftFlow Material Conveying Quick Connect Couplings

made of Stainless Steel 1.4305

DN41



- High quality quick coupling system for pressure or vacuum-conveying of bulk material or liquids, i.e. for vacuum-conveying of granulate materials in the plastics industry
- Less abrasion due to coupling body made of stainless steel
- Coupling sleeve, plug and cap made of aluminium (hard coated)
- Full, straight-through passage without profile narrowing
- Light weight, easy to handle
- Quick coupling principle with ball shut-off for easy operation
- Easy manual replacement of sealing rings
- Perfectly adapted hose stems for PVC- or polyurethane spiral-suction hoses
- Plug and coupling for tube connection with double O-ring sealing and fixing with screw

Max. Working Pressure	Temperature	DN	Operation	Type of valve	Vacuum	Media	
PN 10 bar	-15° – +95° C	41	Two-hands	Straight-through	Vacuum	Plastic granulate	1

SoftFlow Coupling with hose stem

Hose connection	L	D	L1	DS	Passage	Weight	Type No.
Hose i.D. 38	82	65	45	49	34	340	GRK 38 T
Hose i.D. 40	82	65	45	49	36	340	GRK 40 T
Hose i.D. 45	82	65	45	49	41	340	GRK 45 T
Hose i.D. 50	82	65	45	49	41	360	GRK 50 T

For hose clips type HS/ HSE (© page 415, 416)

SoftFlow Vacuum-Coupling for tube connection*

Connection	L	D	L1	DS	Passage	Weight	Type No.
Tube AD 38	70	65	30	49	34	480	GRK 38 R
Tube AD 40	70	65	30	49	36	480	GRK 40 R
Tube AD 45	70	65	30	49	41	520	GRK 45 R
Tube AD 50	70	65	30	49	41	580	GRK 50 R

SoftFlow Coupling with female thread

Thread connection	SW	L	D	L1	DS	Passage	Weight	Type No.
G 1 1/2 f	55	68	65	19	49	41	560	GRK 15 I
G 2 f	60	68	65	19	49	41	650	GRK 20 I

SoftFlow Cap Coupling with chain

L	D	DS	Length chain	Weight	Type No.
48	68	49	170	320	GRK-V

Original Sealing Ring for couplings

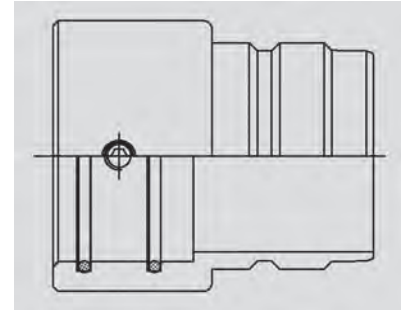
Type	Size	Material		Weight	Type No.
O-ring	45 x 5	Buna N	10	6	GRK-D

Adapted hose stems for other hose dimensions/ types on request



Materials

- Sleeve: Aluminium (hard coated)
- Valve body, plug: Stainless steel 1.4305
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4304
- O-ring: Buna N
- Screw: Stainless steel 1.4301
- Cap plug: Aluminium (hard coated)



DN41

SoftFlow Plug with hose stem

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.	Euro
Hose i.D. 38	83	55	45	36	49	34	310	GRS 38 T	33.02
Hose i.D. 40	83	55	45	36	49	36	315	GRS 40 T	33.02
Hose i.D. 45	83	55	45	36	49	41	330	GRS 45 T	33.02
Hose i.D. 50	83	55	45	36	49	41	360	GRS 50 T	37.35

For hose clips type HS/ HSE (© page 415, 416)



SoftFlow Vacuum-Plug for tube connection*

Connection	L	D	L1	L2	DS	Passage	Weight	Type No.	Euro
Tube AD 38	68.5	58	30	36	49	34	360	GRS 38 R	33.52
Tube AD 40	68.5	58	30	36	49	36	370	GRS 40 R	33.52
Tube AD 45	68.5	58	30	36	49	41	385	GRS 45 R	33.52
Tube AD 50	68.5	58	30	36	49	41	420	GRS 50 R	38.76

* Attention: Only suitable for vacuum applications, sealing with O-ring, fixing with screw



SoftFlow Plug with female thread

Thread connection	SW	L	D	L1	L2	DS	Passage	Weight	Type No.	Euro
G 1 1/2 f	55	65	59	19	36	49	41	350	GRS 15 I	34.21
G 2 f	60	65	59	19	36	49	41	380	GRS 20 I	39.62



SoftFlow Cap Plug with chain

L	D	L1	DS	Length chain	Weight	Type No.	Euro
60	58	36	49	170	195	GRS-V	21.14

Special types/versions, i.e. with bulkhead-screwing, plug or colour codings, other sizes on request





Fittings for Snow Pump Installations

**Snow
Master**
by **LUDECKE**



Extreme environmental conditions (i.e. ice, snow, sun, huge temperature variation) require the use of superior quality as well as highly reliable couplings and fittings.

The **LUDECKE** SnowMaster range for snow pump installations guarantee best safety at work of the plants, even under extreme environmental conditions.

Advantages:

- High-quality stainless steel 1.4401 or steel zinc-plated
- Robust, reliable, absolutely tight and durable
- Simple and easy handling
- Optimized flow characteristics due to large bore
- Hose barb profiles are exactly designed and developed to different hose types and different assembly methods

High Pressure Quick Couplings



These special couplings are used on snow pump installations, tunneling or other high-pressure applications with liquids.

The investment casted handle with high-pressure pin (crimped on both sides) ensures, that male and female part stay connected in a locked position. The handle securing with robust cord made of stainless steel and safety clip, guarantees that the handle cannot be open unintentionally.



Drain Adaptor






The high-quality SnowMaster drain adaptors made of stainless steel, allows automatic drainage of the lines while turning off the plant or reducing the pressure to avoid frost damages on the plant and hose lines.

High-Pressure Screwings



The extremely robust hose barb adaptors are used for long term installations of pipe and hose lines. We offer male thread hose barbs for flat hoses or thick-walled hoses made of rubber as well as female thread hose barbs.

Overview Fittings for Snow Pump Installations

	High-Pressure Quick Couplings	Drain Adaptor	High-Pressure Screwings
			
Series/nominal diameter:	US-Mil-Norm C-27487 / DIN EN 14 420-7		
Coupling body:	Stainless Steel 1.4401	Stainless Steel 1.4401 Valve: Brass MS 58	Steel zinc-plated
O-rings:	Buna N	Buna N	PUR
Handle:	Stainless Steel 1.4401	Stainless Steel 1.4401	-
Max. Working Pressure:	PN 60 bar	PN 60 bar	PN 60 bar
Temperature*:	-40°C - + 95°C	-40°C - + 95°C	-40°C - + 95°C
Thread Types:	ISO 228/ DIN 2999	ISO 228/ DIN 2999	ISO 228/ DIN 2999
Page:	344	346	346

* max. working temperature subject to the used media and sealing material

High-Pressure Quick Couplings

made of Stainless Steel 1.4401 – System Kamlok PN 60 bar



Snow Master
by **LUDECKE**

- High-Pressure type, coupling dimensions according to US-Mil-Norm (MIL-C-27487) or DIN EN 14 420-7
- Essentially stronger housing (compared to Standard Kamlock)
- Investment casted handle with high-pressure pins crimped on both sides
- Handle securing with robust cord (stainless steel) and safety clip
- TÜV-inspected for 60 bar working pressure (burst pressure test 150 bar) for liquids *
- **Special coupling system to be used on snow pump installations, tunneling or different high-pressure applications with liquids**

Max. Working Pressure	Temperature	Thread	Norm	Media	
PN 60 bar*	-40°C – +95°C	ISO 228 / DIN 2999	MIL-C-27487/ DIN EN 14 420-7	liquid media	1

Couplings with hose stem for flat hoses or thick-walled rubber hoses

Hose connect.	Type-Size	ID	DN	System	Weight	Type No.
Hose i.D. 25-28	100	37.3	25	-	380	SKK 100-T
Hose i.D. 38-40	150	54	40	-	635	SKK 150-T
Hose i.D. 50-54	200	63.8	50	-	990	SKK 200-T
Hose i.D. 38-40	200	63.8	40	with thread stem	1360	SKK 200/150-T
Hose i.D. 63-67	250	76.8	65	-	2800	SKK 250-T*

Plugs with hose stem for flat hoses or thick-walled rubber hoses

Hose connect.	Type-Size	ID	DN	System	Weight	Type No.
Hose i.D. 25-28	100	36.7	25	-	230	SKS 100-T
Hose i.D. 38-40	150	53.4	40	-	425	SKS 150-T
Hose i.D. 50-54	200	63	50	-	740	SKS 200-T
Hose i.D. 38-40	200	63	40	with thread stem	1080	SKS 200/150-T
Hose i.D. 63-67	250	75.8	65	-	2450	SKS 250-T*

Attention: For hose connection each 9 different stem profiles types and sizes are available as standard version!

For each order the exact hose type and size and preferred assembly method has to be notified to be able to choose the right hose stem version! For new stem profiles: minimum quantity is 50 sets.

Hose assembly methods:

Crimping ferrules made of steel (zinc-plated) for hydraulic crimping

Type-Size	System	Weight	Type No.
100	Flat hose	180	PH-100-S F
100	Rubber hose	215	PH-100-S G
150	Flat hose	219	PH-150-S F
150	Rubber hose	333	PH-150-S G
200	Flat hose	240	PH-200-S F
200	Rubber hose	360	PH-200-S G
250	Flat hose	370	PH-250-S F
250	Rubber hose	450	PH-250-S G

Attention: Notify exact hose type and -size!

Safety Clamps made of forged aluminium (DIN EN 14 420-3)**

Hose connection	Hose o.D./Range	L	B	DN	Screws	Weight	Type No.
Hose 25x6	36-39	50	69	25	M 6x20	151	KSA 36-39
Hose 38x6.5	50-53	50	83	40	M 6x20	167	KSA 50-53
Hose 50x8	63-67	56	102	50	M 8x25	310	KSA 63-67
Hose 63x8	78-82	74	120	65	M 8x25	454	KSA 78-82

Attention: Notify exact hose type and size! Not possible for each hose type!

For flat hose assembly a coverhose is required!

Further assembly methods: Steel band, wire.

*Max. Working Pressure 40 bar

**Max. Working Pressure 25 bar

Optional Stem-Types

for steelband



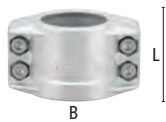
for crimping ferrule



for wire



for safety clamp



High Pressure Quick Couplings

Materials

- Coupling, plug: Stainless Steel 1.4401
- Locking sleeve: Steel blue passivated
- Ferrule: Steel zinc-plated and blue passivated
- O-ring: Buna N
- Thread sealing ring: PTFE
- Safety Clamp: Aluminium forged
- Screws: DACRO 500 A coated
- Handle, pin, cord, ring: Stainless Steel 1.4401
- Safety clip: Steel zinc-plated (DIN 11024)



Snow Master
by **LUDECKE**

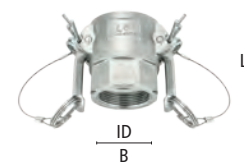
Crimping Ferrules

Safety Clamps

Wire

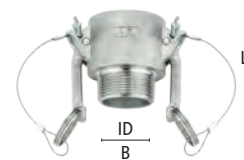
Couplings with female thread and thread sealing ring

Thread connection	L	B	Type-Size	ID	DN	Weight	Type No.
G 1 f	63	70	100	37.3	25	450	SKK 100 I
G 1 1/2 f	73	93	150	54	40	850	SKK 150 I
G 2 f	78	102	200	63.8	50	920	SKK 200 I
G 2 1/2 f	78	110	250	76.5	65	1300	SKK 250 I*



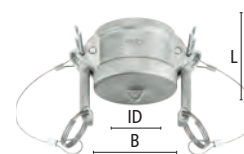
Couplings with male thread

Thread connection	L	B	Type-Size	ID	DN	Weight	Type No.
R 1 1/2 m	67	93	150	54	40	740	SKK 150 A
R 2 m	79	102	200	63.8	50	944	SKK 200 A



Dust Caps

L	B	Type-Size	ID	DN	Weight	Type No.
49	70	100	37.3	25	390	SKK 100-DC
59	93	150	54	40	480	SKK 150-DC
63	102	200	63.8	50	680	SKK 200-DC
67	110	250	76.5	65	920	SKK 250-DC*



Plugs with female thread and thread sealing ring (DIN EN 14 420-7 Form AF)**

Thread connection	L	Type-Size	ID	Passage	DN	Weight	Type No.
G 1 f	52	100	36.7	24	25	222	100-A-SS
G 1 1/2 f	62	150	53.4	38	40	493	150-A-SS
G 2 f	71	200	63	51	50	644	200-A-SS
G 2 1/2 f	75	250	75.8	58	65	945	250-A-SS



Plugs with male thread (DIN EN 14 420-7 Form FF)**

Thread connection	L	Type-Size	ID	Passage	DN	Weight	Type No.
R 1 m	72	100	36.7	24	25	258	100-F-SS
R 1 1/2 m	82	150	53.4	38	40	565	150-F-SS
R 2 m	90	200	63	51	50	650	200-F-SS
R 2 1/2 m	105	250	75.8	58	65	1317	250-F-SS



Dust Plugs (DIN EN 14 420-7 Form DP)**

L	Type-Size	ID	DN	Weight	Type No.
46	100	36.7	25	139	100-DP-SS
57	150	53.4	40	335	150-DP-SS
60	200	63	50	441	200-DP-SS
66	250	75.8	65	657	250-DP-SS



Handle with high-pressure pin, Cord, Ring, Safety clip

Type-Sizes	Weight	Type No.
150, 200, 250	89	SKH 1

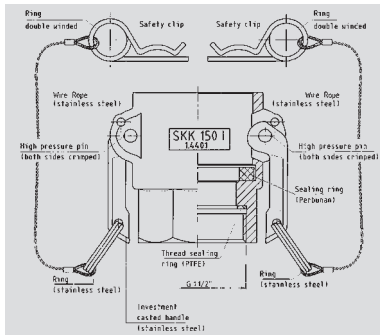


*Max. Working Pressure 40 bar

**Max. Working Pressure 16 bar

Drain Adaptor

with 3 Automatic-Run-Out-Valves 3/4" and 2 fixing spears



- High-quality drain adaptor made of stainless steel 1.4401
- Drains the lines automatically when installation is switched off and pressure drops to avoid frost damages on plant and hose lines
- Simply assemble the adaptor at the lowest point between snow pump and hydrant and fix it with two spears (60 cm long) in suitable position

Materials:

- Body: Stainless Steel 1.4401
- Valve: Brass MS 58 nickel-plated
- Seals: Buna N

Snow Master
by LUDECKE



Max. Working Pressure	Temperature	Media	
PN 60 bar	-40°C – +95°C	liquid media	1

Drain-Adaptor with 3 Automatic-Run-Out-Valves 3/4" and 2 fixing spears

Connection	Type-Size	L	ID	ID1	DN	Weight	Art.Nr.
MT / VT	150	197	53.4	54	40	2870	SKK 150 EA
MT / VT	200	216	63	63.8	50	4039	SKK 200 EA
Automatic-Run-Out-Valves also available separately (7 bore)						160	EWV 34
Automatic-Run-Out-Valves also available separately (1 bore)						170	EWV 341

Opening pressure of valves approx. 1 bar!

High-Pressure Screwings

made of Zinc-plated Steel

- Thread Stems for long-term steady installations of pipe and hose lines, extremely robust execution
- Female thread stems with swivelling nut, flat sealing with thread sealing ring
- Appropriate safety clamps and crimping ferrules (☺ page 326)

Materials:

- Hose stem: Steel zinc-plated and blue passivated
- Seals: PUR

Max. Working Pressure	Temperature	Thread	Media	
PN 60 bar	-40°C – +95°C	ISO 228 / DIN 2999	liquid media	1

Male thread screwings for flat hoses or thick-walled rubber hoses

Thread connection	Hose connection	SW	DN	Weight	Type No.
R 1 m	Hose i.D. 25-28	36	20	220	SGA 100-T
R 1 1/2 m	Hose i.D. 38-40	50	40	372	SGA 150-T
R 2 m	Hose i.D. 38-40	60	40	210	SGA 200/150-T
R 2 m	Hose i.D. 50-54	60	50	620	SGA 200-T

Female thread screwings for flat hoses or thick-walled rubber hoses (with screwing nut)

Thread connection	Hose connection	SW	DN	Weight	Type No.
G 1 f	Hose i.D. 25-28	41	20	250	SGI 100-T
G 1 1/2 f	Hose i.D. 38-40	55	40	390	SGI 150-T
G 2 f	Hose i.D. 50-54	70	50	640	SGI 200-T

Attention: For hose connection each 9 different stem profiles types and sizes are available as standard version!
For each order the exact hose type and size and preferred assembly method has to be notified to be able to choose the right hose stem version! For new stem profiles: minimum quantity is 50 sets

Other sizes on request!



WaterProfi Quick Connect Couplings

A superior Connection System Compatible with the Standard Plug Profile



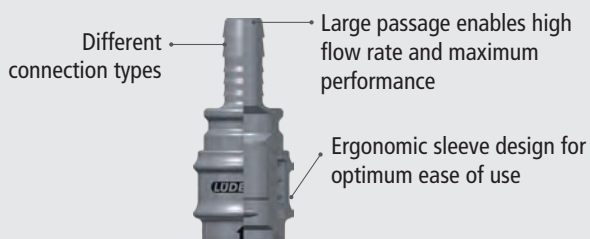
WaterProfi quick connect couplings are completely made of stainless steel and are ideally used in applications with specific hygienic requirements. The one-hand operation simplifies the work and guarantees the optimum ease of use. Additionally, the WaterProfi products offers best sealing characteristics.

Advantages:

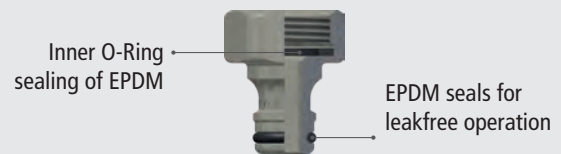
- High-quality stainless steel 1.4305
- Simple to connect, high pressure spectrum, high sealing characteristic and durable
- Robust, safe and reliable
- Compact design and ergonomic sleeve design to avoid dirt nests
- High flow rates due to the largest possible passage
- Compatible with the standard plug profile
- Different connection and valve types

Top Quality for Carefree Working

WaterProfi Quick Connect Coupling



WaterProfi Plug



Connected in Seconds

WaterProfi products are easily to connect without big effort, due to the one-hand operation function design. To connect push the plug into the coupler up to the end, the locking sleeve locks automatically and holds the plug firmly.



To disconnect, grasp the plug firmly with one-hand. With the other one push the locking sleeve backwards and pull the plug off the coupling. After disconnecting, the locking sleeve slips automatically back to starting position.

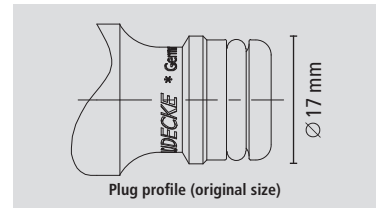
WaterProfi Quick Connect Couplings

made of Stainless Steel, Series WSE

- High quality one-hand operation Quick Connect Couplings of stainless steel
- Easy to connect, high pressure spectrum, superior sealing characteristics and durable
- Robust, safe and reliable
- Flat sleeve contour for the prevention of dirt accumulation
- High water flow due to optimized passage
- Interchangeable with standard plug profile types, available with shut-off valves or straight through
- Quick Connect Coupling for applications with specific hygienic requirements or for hot water e.g. for cleansing in the food industry

Materials

- Body, sleeve, pin holder, valve, pins, plug: Stainless steel 1.4305
- Springs: Stainless steel 1.4310
- O-rings: EPDM



Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 16 bar	+95°C	16	ISO 228	One-hand	single/straight through	Water	Coupl. 1/Plug 5

WaterProfi by **LUDECKE**

WaterProfi Coupling with hose connection

Hose connection	L	D	L1	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	75	34	30	163	WSE 13 T	WSE 13 TAB
Hose i.D. 16	75	34	30	164	WSE 16 T	WSE 16 TAB
Hose i.D. 19	75	34	30	171	WSE 19 T	WSE 19 TAB
Hose i.D. 25	75	34	30	194	WSE 25 T	WSE 25 TAB



WaterProfi Coupling with female thread

Thread connection	L	SW	D	L1	Weight	Type No. w/o valve	Type No. w valve
G 3/4 f	56	30	34	9	170	WSE 34 I	WSE 34 IAB



WaterProfi-Screwing hose stem (for Combination with WaterProfi Couplings with female thread)

Thread connection	Hose connection	L	L1	L2	Passage	Weight	Type No.
G 3/4 m	Hose i.D. 13	41	32	9	10	35	WSE 13 GT
G 3/4 m	Hose i.D. 16	41	32	9	13	39	WSE 16 GT
G 3/4 m	Hose i.D. 19	41	32	9	15	50	WSE 19 GT
G 3/4 m	Hose i.D. 25	41	32	9	19	62	WSE 25 GT



WaterProfi Plugs with hose connection

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 13	58	24	32	24	61	WSE 13 S
Hose i.D. 16	58	24	32	24	65	WSE 16 S
Hose i.D. 19	58	24	32	24	67	WSE 19 S
Hose i.D. 25	58	27	32	24	83	WSE 25 S



WaterProfi Plugs with female thread (With female thread sealing ring)

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/2 f	38	27	10	24	67	WSE 12 NI
G 3/4 f	38	30	10	24	64	WSE 34 NI



WaterProfi Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/2 m	40	24	10	24	53	WSE 12 NA
G 3/4 m	41	30	11	24	74	WSE 34 NA



WaterProfi Plug Adapter

Connection	L	D	L1	L2	Weight	Type No.
DN 9 - DN 9	52	24	24	24	66	WSEA





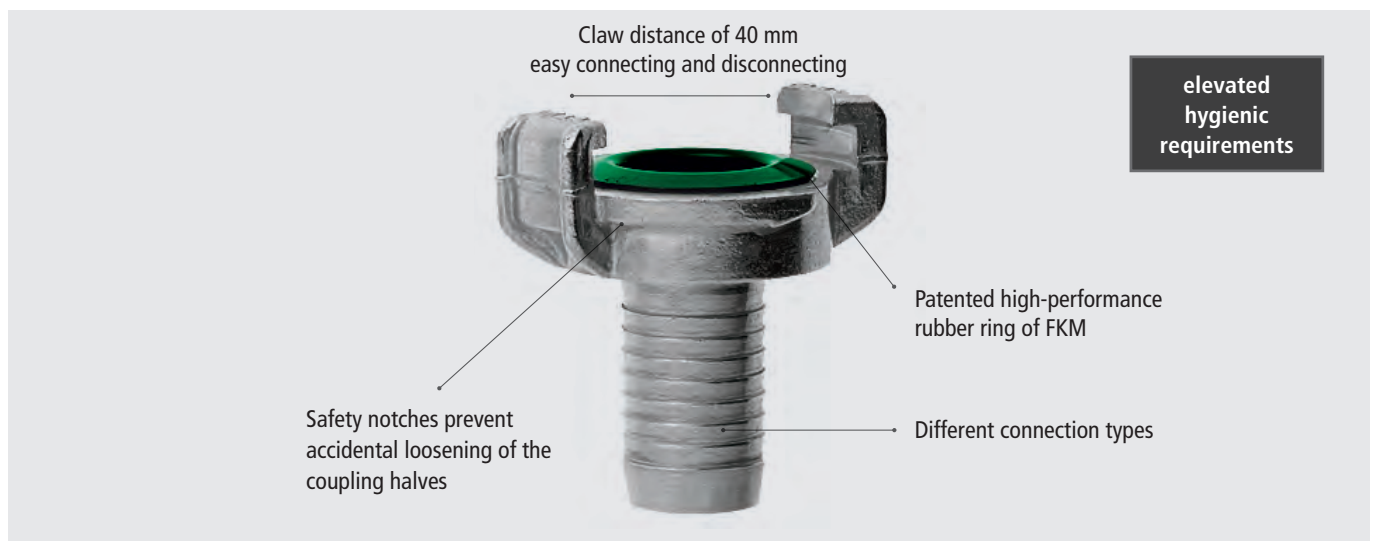
GEKA plus Claw Couplings made of Chromium Steel for Applications with Elevated Hygienic Requirements

The GEKA plus Claw Couplings of chromium steel fit especially for applications in the chemical industry, for water, lye and aggressive media. The coupling contains a patented special FKM rubber ring with optimum elasticity.

Advantages

- Easy to connect, high pressure and vacuum capabilities, reduced "breakdown torque"
- Maximum passage with optimum wall thickness, safe and hose sparing hose barbs
- Ergonomically formed claws, safety notches against accidental loosening

First-Class Materials



Easy Operation – Safe and Firm Hold



The principle of connecting is identical with the functioning of the WaterProfi Claw Couplings. Both couplings are connected at the front end side in order to connect the sealing surfaces. Afterwards one coupling half has to be twisted against the other until end stop – the couplings lock into place.

GEKA plus Claw Couplings

made of Chromium Steel for Applications with Elevated Hygienic Requirements

elevated
hygienic
requirements

- High quality couplings of chromium steel similar to 1.4401
- Easy to couple, high pressure and vacuum-spectrum, reduced "breakdown torque"
- Maximum bore at optimum wall thickness as well as soft hose tail design
- Ergonomic formed claws, optimum security with safety notches against accidental opening
- Patented high performance rubber ring of FKM (DIN ISO 1625) with perfect elasticity
- **Universal coupling for applications in chemical industry, for water, lye or aggressive media**

Materials

- Claw, connector: Chromium steel similar to 1.4401
- O-ring: FKM

Max. Working Pressure	Temperature	Thread	Claw distance	Media	
PN 40 bar	-5°C – +100°C	ISO 228	40 mm	Water/ lye	5

Hose Claw Couplings GEKA plus

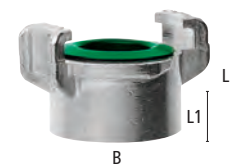
Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 13	50	53.5	28	10	89	GSK 13 SS
Hose i.D. 19	52.5	53.5	32	17	92	GSK 19 SS
Hose i.D. 25	57.5	53.5	37	21.5	117	GSK 25 SS

For hose clips type SLE (© page 413), and type HSE (© page 416)



Female Claw Couplings GEKA plus with thread sealing ring

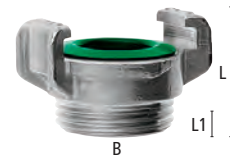
Thread connection	L	B	L1	Passage	Weight	Type No.
G 1/2 f	30.5	53.5	9.5	14	82	GKI 12 SS
G 3/4 f	31.5	53.5	10.5	19	88	GKI 34 SS
G 1 f	32.5	53.5	11	23	100	GKI 10 SS



Male Claw Couplings GEKA plus

Thread connection	L	B	L1	Passage	Weight	Type No.
G 1/2 m	30.5	53.5	8	15	80	GKA 12 SS
G 3/4 m	33	53.5	8	20	91	GKA 34 SS
G 1 m	31	53.5	8	23	86	GKA 10 SS

Male thread sealing with sealing ring type HPD (© page 231)




Plain End Claw Coupling GEKA plus

Version	L	B	Weight	Type No.
without chain	36.5	53.5	85	GKO SS



Original Rubber Ring for GEKA plus-Couplings of chromium steel

Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A		Weight	Type No.
Water	10.8	33.5	20.5	FKM	-20 – +160	Water	green	65°	10	5	GKVR-N



ALBA KRAPP Hose Reels, Wall Hose Reels and Wall Hose Holders

Long Range Water Supply, Secured and Flexible Stowed

ALBA KRAPP products offer high quality and lifelong guarantee. Through environmentally friendly materials they may be classified as completely recyclable and thus, they make a valuable contribution to a sustainable production. ALBA KRAPP hose reels, wall hose reels and wall hose holders made of stainless steel can be used in the food industry.



Quality Surface



High Stability



Perfect Balance



Easy Assembly



Lifetime-Quality



Ecology



High Waterflow



Quality Wheels



Wide Range of Wall Hose Reels



First-class water fittings

Hose Reel ALBA STAR INOX Series II

For the Food Industry: Ideal for Cheese Dairies, Creameries, Butcheries, Bakeries, Medical Laboratories, Swimming Pools etc.



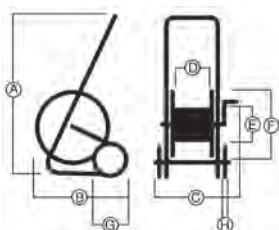
- Totally made of electropolished stainless steel
- Hose friendly drum - no kinking
- High water flow capacity 3/4" (resistant)
- Wide, solid rubber wheels (abrasion-proof)
- Hose reel - double bearing
- Swivelling connector with ball bearing: simple reeling and unrolling
- Comfortable level of transportation: long and practical handle, easy to roll
- Highest tilt firmness
- Additional slip resistant stoppers on trolley frame
- Without hose, pre-assembled in carton box

Materials:

- Hose reel: Stainless steel electropolished
- Wheels: Solid rubber
- Swivelling connector: Brass Cuphin

Max. Working Pressure	Temperature	Max. Hose Length	Media	
25 bar	up to + 100°C	1/2" (13 mm) = 120 m, 5/8" (16 mm) = 100 m, 3/4" (19 mm) = 80 m, 1" (25 mm) = 50 m	Water	1

Thread Connection	Version	Weight	Type No.
G 3/4 m	Hose i.D. 13 - Hose i.D. 16 - Hose i.D. 19 - Hose i.D. 25	14 kg	ALBA STAR IN2



Ⓐ Total height:	1030 mm	Ⓔ Reel inside:	229 mm
Ⓑ Total length:	609.5 mm	Ⓕ Reel wheel:	555 mm
Ⓒ Total width:	608 mm	Ⓖ Wheel-∅:	200 mm
Ⓓ Reel width:	296 mm	Ⓗ Wheel width:	46 mm

Wall Hose Reel ALBA STATUS INOX Series III

For the Food Industry: Ideal for Cheese Dairies, Creameries, Butcheries, Bakeries, Medical Laboratories, Swimming Pools etc.

- Completely made of electropolished stainless steel
- Hose friendly drum - no kinking
- Central Waterflow
- Wall construction with enlarged and safe fixing set as well as robust double pipe-support
- Optimal overall size for a small wall distance
- 180° infinite swivel position, snap in locking in 6 given positions, prevents collision with the wall
- Rugged and massive hand crank with ergonomic handle for a safe and easy hose reeling
- Hose reel double bearing
- Without hose, pre-assembled in carton box

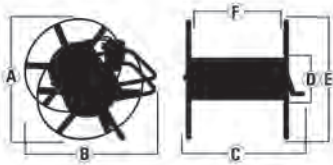
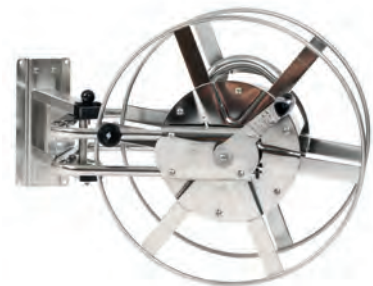
Materials:

- Wall Hose Reel: Stainless steel electropolished
- Swivelling connector: Brass Cuphin



Max. Working Pressure	Temperature	Max. Hose Length	Media	
25 bar	up to + 100°C	1/2" (13 mm) = 70 m, 5/8" (16 mm) = 60 m, 3/4" (19 mm) = 40 m	Water	1

Thread Connection	Version	Weight	Type No.
G 3/4 m	Hose i.D. 13 - Hose i.D. 16 - Hose i.D. 19	11.2 kg	ALBA STATUS IN3



- Ⓐ Total height: 458 mm
- Ⓑ Total length: 554.5 mm
- Ⓒ Total width: 556 mm
- Ⓓ Reel width: 229 mm
- Ⓔ Reel wheel: 458 mm
- Ⓕ Wheel width: 243.5 mm

Wall Hose Holder ALBA MIDI INOX

For the Food Industry

- Totally made of electropolished stainless steel
- Statically solid
- Light construction
- Hose conserving, no hose buckling

Materials:

- Wall Hose Holder: Stainless Steel 1.4301



Temperature	Max. Hose Length	Media	
up to + 100°C	Mounting height 1.35 m: 1/2" (13 mm) = 140 m, 5/8" (16 mm) = 123 m, 3/4" (19 mm) = 70 m, 1" (25 mm) = 45 m hose	Water	1

Version	B	H	T	Weight	Type No.
Hose i.D. 13 - Hose i.D. 16 -	222	250	166	0.9 kg	ALBA MIDI INOX
Hose i.D. 19 - Hose i.D. 25					



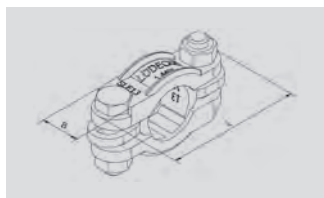
Hose Clamps

made of Stainless Steel

- Robust clamps of stainless steel 1.4401
- Easy and secure, for various fittings and applications

Material

- Clamps, Spacers: Stainless steel 1.4401
- Screws: Stainless steel A4-70



Max. Working Pressure	Norm
PN 16 bar	DIN 20039 A/B

Hose Clamps DIN 20039 A. two parts with loose spacers. Material Stainless Steel 1.4401

Hose o.D./							
Version	Range	L	B	Size Screws	⊠	Weight	Type No.
Hose i.D. 13	18-26	63	18	M 8x30	5	140	SLE 13
Hose i.D. 19	26-33	71	18	M 8x30	5	160	SLE 19
Hose i.D. 25	32-40	81	18	M 10x35	5	210	SLE 25

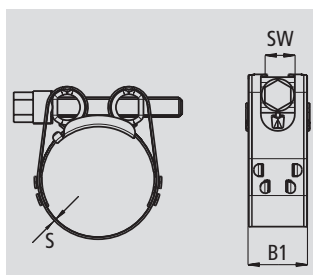
Heavy Duty Clamps

made of Steel (DIN 3017)

- Heavy duty clamp made of stainless steel 1.4016
- New special screw with integrated distance tube and better performance
- Reinforced band strap and therefore higher torques (very high breaking torque and very high clamping force)
- Mechanical mounting, therefore no welding points and corrosion contact
- Bridge for sustainable hose relief
- Robust band with rounded edges prevents injuries and hose break
- Simple installation (with manual, pneumatic or electrical standard tools)
- Packed in boxes
- For applications with strict requirements for the hose clamps (for the application of suction and compressed air hoses with high degree of hardness or with plastic / steel core)

Materials

- Band: Stainless steel 1.4016
- Body, Screws: Steel zinc-plated (free of chrome VI)



Norm
DIN 3017

Heavy Duty Clamps

Range	SW	torque		Band width B1	Band thickness S	⊠	Weight	Type No.
		mm	inch					
17-19	8	8	8	18	0.6	100	52	GBSM 19
19-21	8	8	8	18	0.6	100	52	GBSM 21
21-23	8	8	8	18	0.6	100	52	GBSM 23
23-25	8	8	8	18	0.6	100	52	GBSM 25
25-27	8	8	8	18	0.6	50	52	GBSM 27
27-29	8	8	8	18	0.6	50	52	GBSM 29
29-31	8	8	8	18	0.6	50	85	GBSM 31
31-34	8	8	8	18	0.6	50	85	GBSM 34
34-37	8	8	8	18	0.6	50	85	GBSM 37
37-40	8	8	8	18	0.6	50	85	GBSM 40
40-43	8	8	8	18	0.6	50	85	GBSM 43
43-47	10	10	10	20	0.8	25	85	GBSM 47
47-51	10	10	10	20	0.8	25	85	GBSM 51
51-55	10	10	10	20	0.8	25	115	GBSM 55
55-59	10	10	10	20	0.8	25	115	GBSM 59
59-63	10	10	10	20	0.8	25	115	GBSM 63
63-68	10	10	10	20	0.8	10	115	GBSM 68
68-73	13	20	25	25	1.0	10	153	GBSM 73
73-79	13	20	25	25	1.0	10	153	GBSM 79



High-Performance Hose Clips

made of Stainless Steel W5 (DIN 3017)

- High performance hose clips made of stainless steel W5
- Optimum sealing through high band tension – maximum strip-safety
- Hose-protective through rounded edges
- Stamped band
- Thinner screw body with new position, therefore improved torque
- Material and clip range stamped at inner band side
- Hexagon screw with slotted head
- Regularly spaced tension over complete hose diameter
- Up to size 90 in boxes, size 100 in plastic bags
- For safe, fast and removable use on various hoses and fittings for various media

Materials

- Band, Body, Screw: Stainless steel W5
- Special Screw Driver: Chromed steel/ plastic



Norm	
DIN 3017	

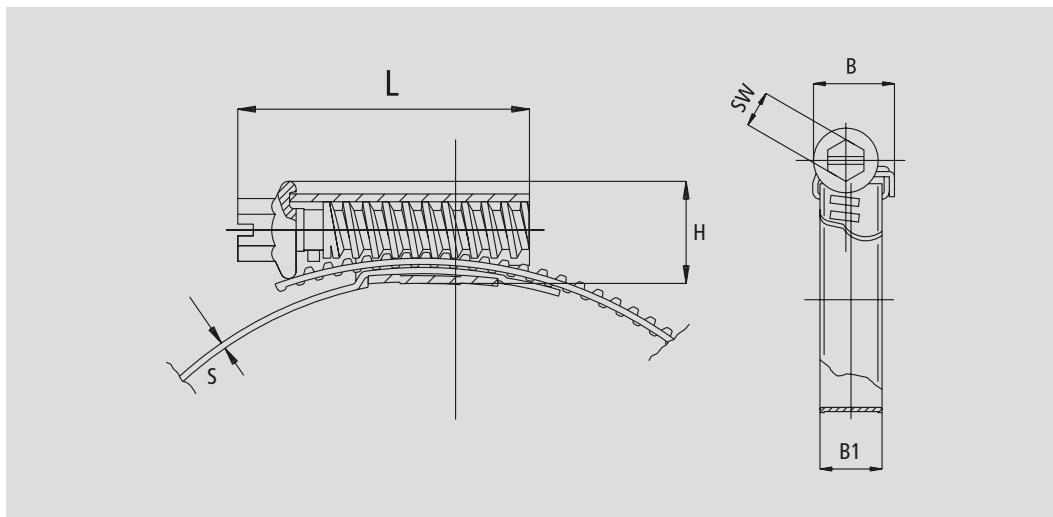


High-Performance Hose Clips, band and lock stainless steel W 5

Range	torque			Band-width			band-thickness			Weight	Type No.	Euro
	mm	inch	Max. Nm.	B	SW	L	H	B1	S			
8-12	5/18-1/2	10.5	6	1.5	17	9.5	8	0.7	100	6	HSE 12	1.72
8-16	5/18-5/8	14	7	2-2.5	21	14	9	0.8	100	11	HSE 16	1.73
12-20	1/2-3/4	14	7	2-2.5	24	14	9	0.8	100	13	HSE 20	1.87
16-25	5/8-1	14	7	3-3.5	24	14	9	0.8	100	14	HSE 25	1.93
20-32	3/4-1 1/4	14	7	3-3.5	24	14	9	0.8	100	15	HSE 32	2.01
25-40	1-1 5/8	14	7	3-3.5	26	14	9	0.8	50	18	HSE 40	2.22
32-50	1 1/4-2	14	7	3-3.5	26	14	9	0.8	50	18	HSE 50	2.35
40-60	1 5/8-2 3/8	14	7	3-3.5	26	14	9	1.0	25	20	HSE 60	2.51
50-70	2-2 3/4	14	7	3-3.5	26	14	9	1.0	25	21	HSE 70	2.66
60-80	2 3/8-3 1/8	14	7	3-3.5	26	14	9	1.0	25	23	HSE 80	2.91
70-90	2 3/4-3 1/2	14	7	3-3.5	26	14	9	1.0	25	25	HSE 90	3.08
80-100	3 1/8-4	14	7	3-3.5	26	14	9	1.0	10	28	HSE 100	3.19

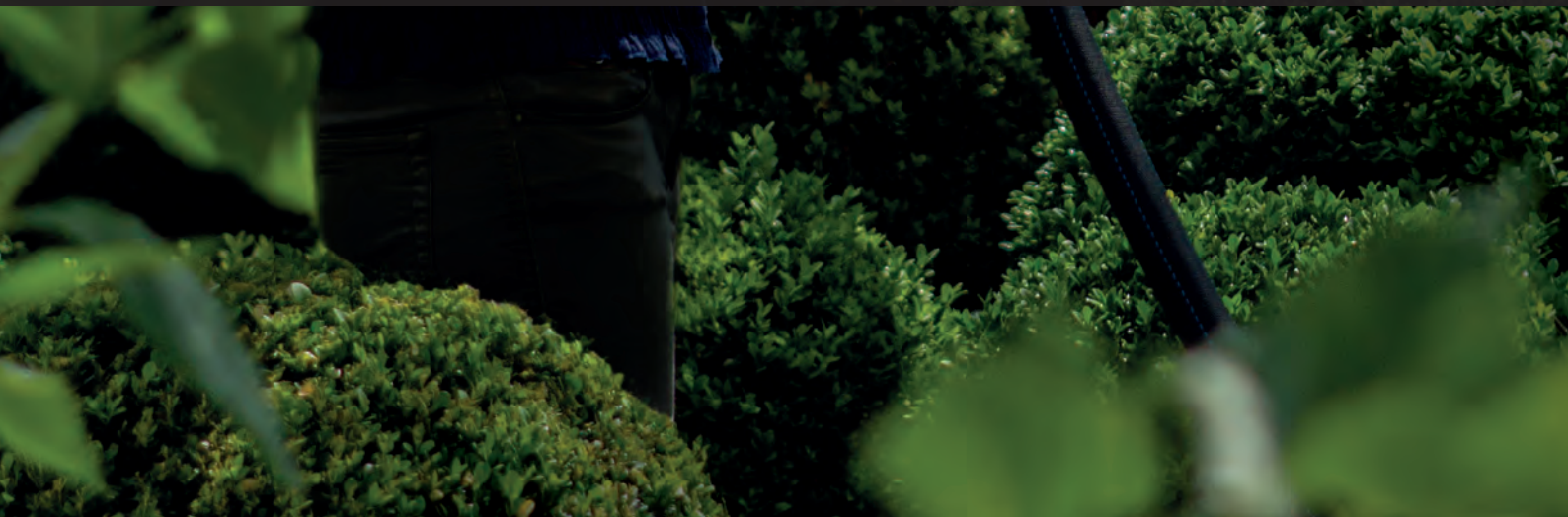
Special hexagon screw driver of chromed steel with plastic handle

Version	SW	Weight	Type No.	Euro
Rigid	7	89	SR STARR	11.15
Flexible	7	134	SR FLEX.	24.79





Water Application





WaterProfi Quick Connect Couplings and Spray Nozzles



WaterProfi Wand Nozzle



WaterProfi Claw Couplings and Spray Nozzles



Claw Couplings for Drinking Water Applications



Claw Couplings for Elevated Hygienic Requirements



Accessories



ALBA KRAPP Sets, Hose Reels, Wall Hose Reels and Wall Hose Holders



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WaterProfi Wand Nozzle

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WaterProfi Claw Couplings and Spray Nozzles

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Claw Couplings for Drinking Water Applications

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Claw Couplings for Elevated Hygienic Requirements

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Water Application



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A Superior Product Range for Water Supply to be used in Industry, Trades, Gardening and Landscaping



With our WaterProfi program, we have engineered high end solutions for various water applications.

Whether for private gardening, commercial gardening and landscaping, agriculture, food industry, for cleaning or supply services at industrial workplaces or for drinking water applications – we are able to provide you a solution for nearly all kind of applications.

We always promise the best quality – Made by **LUDECKE**.

**Water
Profi**
by **LUDECKE**

Wide Range

NEW!

The **LUDECKE** WaterProfi Quick Connect Couplings and Claw Couplings are available in different sizes and types. Completely new we're now offering WaterProfi Quick Connect Couplings with squeeze nut.

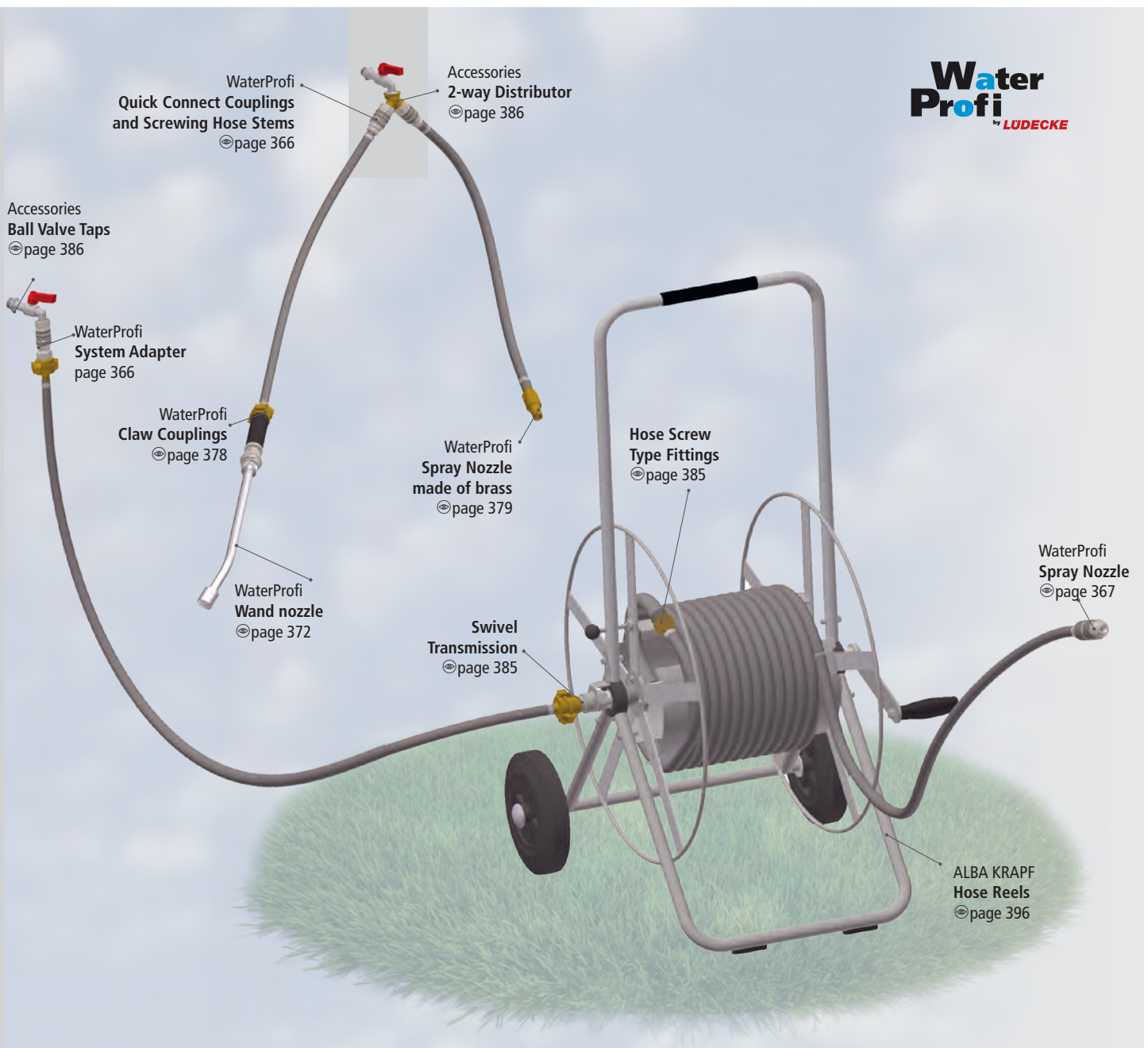
Our high quality wand nozzle make it easy to water large areas. With the new modular design they ensure even more flexibility.

In addition to our **LUDECKE** water fittings you receive high-class Hose Reels from ALBA KRAPP. Those guarantee a fast and simple feed of hose lines for various applications.



Maximum Flexibility with Perfect Compatible System Components

Our products offer you the opportunity to combine and connect to accommodate your needs. The **LUDECKE** WaterProfi range allow the user to set up an individualized and all time flexible, expandable water system for a multitude of applications in various situations.



Combining and connecting - We would be pleased to provide you active assistance with the composition of a customized water system.

Overview Fittings

WaterProfi Quick Connect Couplings

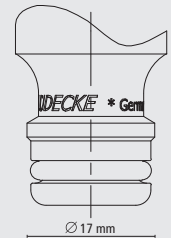
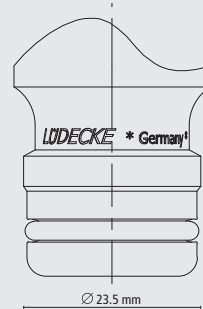
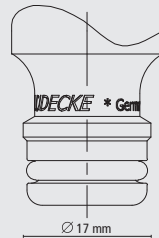
Series

WS
DN 9

WL
DN 16

WSE
DN 9

Plug Profile
(original size)



Materials

Body:
Sleeve:
Valve body:
Valve:
Springs:
Balls:
Pins:
Pin holder:
O-rings:
Special seals for
other media on request:

Brass MS 58 nickel-plated
Brass MS 58 nickel-plated
-
Brass MS 58 nickel-plated
Spring steel 1.4310
-
Stainless steel 1.4305
Brass MS 58 nickel-plated
EPDM

Brass MS 58 nickel-plated
Brass MS 58 nickel-plated
-
Brass MS 58 nickel-plated
Spring steel 1.4310
-
Stainless steel 1.4305
Brass MS 58 nickel-plated
EPDM

Stainless steel 1.4305
Stainless steel 1.4305
-
Stainless steel 1.4305
Stainless steel 1.4310
-
Stainless steel 1.4305
Stainless steel 1.4305
EPDM

Plug:

Brass MS 58 nickel-plated

Brass MS 58 nickel-plated

Stainless steel 1.4305

Max. Working Pressure:

PN 16 bar

PN 16 bar

PN 16 bar

Temperature:

up to +95°C

up to +95°C

up to +95°C

Thread types:

ISO 228

ISO 228

ISO 228

Type of valve:

single/straight through

single/straight through

single/straight through

Operation:
Page:

One-hand
366

One-hand
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One-hand
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for Applications with Water

WaterProfi Claw Couplings

Other Claw Couplings

Accessories

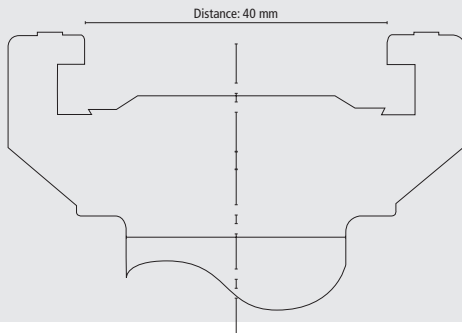
of brass

of brass

of chromium steel

Swivel
Transmission

Hose Screw
Type Fittings



Brass CW617N

Brass CW617N

Chromium steel similar to 1.4401

Brass MS 58 nickel-pl./spec. brass

Brass MS 58 plain/ nickel-plated

EPDM

Buna N

FKM

EPDM

EPDM

PN 25 bar

PN 40 bar

PN 40 bar

PN 10 bar

PN 10 bar

up to +95°C

-5°C to +100°C

-5°C to +100°C

up to 95°C

up to 95°C

ISO 228

ISO 228

ISO 228

ISO 228

ISO 228

straight through

straight through

straight through

straight through

straight through

connection straight/ 90°

Two-hand
378

DIN 50930/6, DIN 17660,
DVGW W270,
KTW approval according to D2
Two-hand
381

Two-hand
383

Two-hand
385

Two-hand
385

Brass MS 58 nickel-pl./spec. brass = Brass MS 58 nickel-plated/special brass



WaterProfi Quick Connect Couplings

A Superior Connection System, Compatible with the Standard Plug Profile DN 9 and DN 16



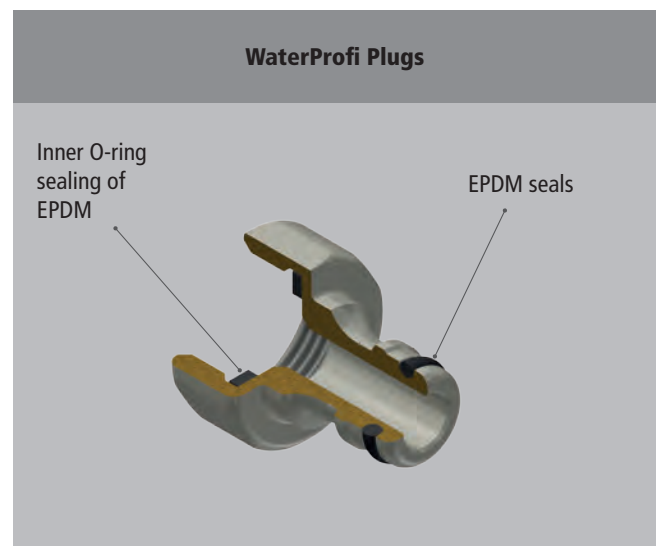
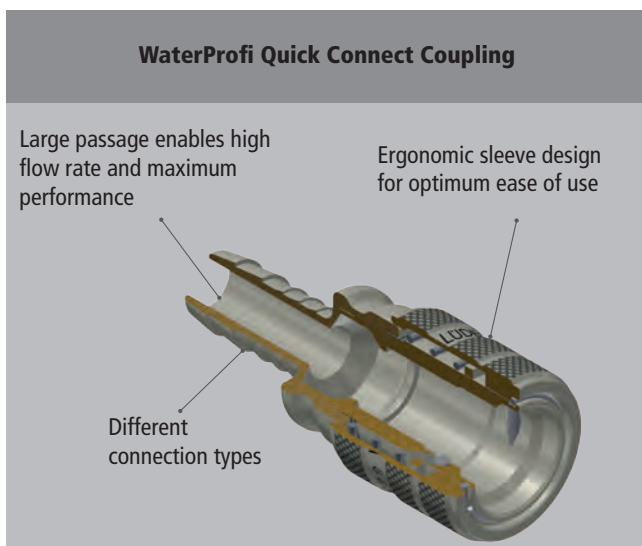
WaterProfi quick connect couplings are completely made of nickel-plated brass or stainless steel which offers a more robust and wear resistance vs other couplings made of plastics. The one-hand operation guarantees a simplified work and an optimum ease of use. WaterProfi products offer best sealing characteristics.

Advantages:

- High-quality materials (Brass, Stainless steel)
- Simple to connect, high pressure spectrum, high sealing characteristic and durable
- Robust, secure and reliable
- Compact design and ergonomic sleeve design for optimum ease of use
- High flow rates due to the largest possible passage
- Interchangeable with the standard plug profile
- Available in different sizes, connection and valve types

The WaterProfi quick connect couplings are ideally suited for water pipes used in industrial applications, trades, gardening and landscaping or private households. Due to the one hand operation functionality, it is particularly useable in areas that demand a quick and flexible work performance.

Highest Quality for Trouble-Free Usage



Connected in Seconds

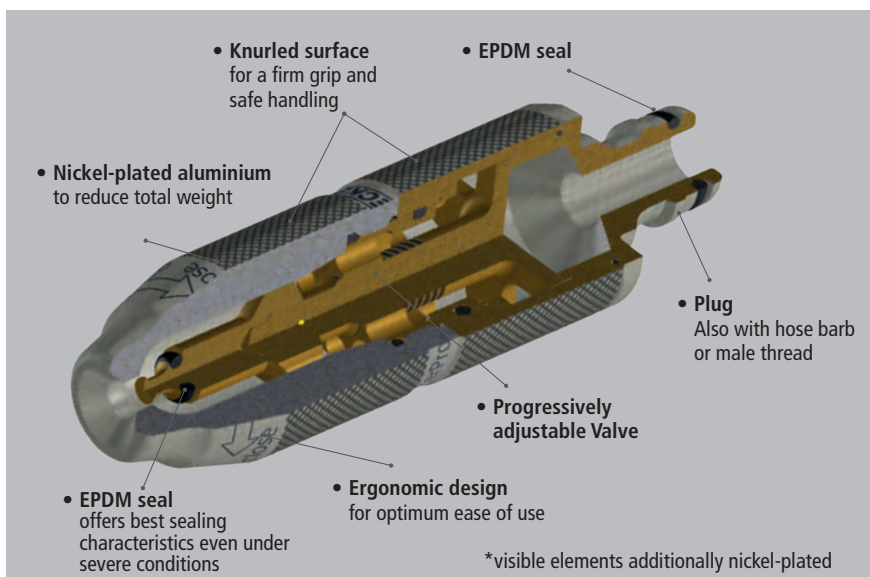
WaterProfi Quick Connect Couplings are easily to connect without big effort; due to the one-hand operation function design. To connect push the plug into the coupler up to the end, the locking sleeve locks automatically and holds the plug firmly.



When using non-valved couplings the mediaflow should be turned off before disconnecting. To disconnect, grasp the plug firmly with one hand. With the other hand push the locking sleeve backwards and pull the plug off the coupling. After disconnecting, the locking sleeve slips automatically back to starting position.

WaterProfi Spray Nozzle

Best characteristics are shown by the premium finishing and it's significant technical features. The front part of the nozzle is made of nickel-plated aluminium in regards of weight reduction. All other parts are made of brass*. The material combination and the design featuring the WaterProfi Spray Nozzle as very robust and durable. At the nozzle orifice, an additional sealing ring prevents leakages. The knurled sleeve is dedicated to a firm grip, so even under wet conditions this design offers safe handling.



Quickly ready for use - for flexible working

The WaterProfi Spray Nozzle can be easily connected or disconnected with a WaterProfi quick connect coupling attached to a hose and therefore offers great flexibility.

Easy Flow Control - from Mist to Full Jet

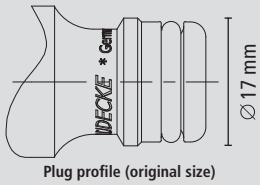


The WaterProfi Spray Nozzle offers the capability that the water jet can be fine tuned and adjusted or turned off by the front part of the nozzle, without increasing the nozzle length in total. In reference to a concerted technical interaction of the valve spindle and the inner geometrics of nozzle and nozzle valve the WaterProfi Spray Nozzle enables a fine tuned flow control from mist to full jet.

WaterProfi Quick Connect Couplings

Series WS made of Brass Nickel-Plated

DN9



Plug profile (original size)

- High quality one-hand operation quick connect couplings made of brass MS 58 nickel-plated
- Easy to connect, high pressure spectrum, superior sealing characteristics and durable, robust, safe and reliable
- Ergonomic sleeve design for perfect handling and compact size
- High water flow due to optimized passage
- Spray nozzle with water flow shut off and flow control from mist to full jet
- Interchangeable with standard plug profile types, available with shut-off valves or straight-through
- **Universal one-hand operation Quick Connect Coupling for water lines in industry, trades, agriculture, land scaping, gardening or household**

Materials

- Body, sleeve, pin holder, valve, plug: Brass MS 58 nickel-plated
- Pins: Stainless steel 1.4305
- Springs: Spring steel 1.4310
- O-rings: EPDM
- Claw: Brass MS 58 plain
- Spray Nozzle: Aluminium/ Brass MS 58 nickel-plated

Also in Stainless Steel Series WSE page 349

WaterProfi by LUDECKE

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	⊕
PN 16 bar	+95°C	9	ISO 228	One-hand	single/straight through	Water	5

WaterProfi Couplings with hose connection

Hose connection	L	D	L1	Weight	Type No.w/o valve	Type No.w valve
Hose i.D. 13	75	32	30	165	WS 13 T	WS 13 TAB
Hose i.D. 16	75	32	30	166	WS 16 T	WS 16 TAB
Hose i.D. 19	75	32	30	173	WS 19 T	WS 19 TAB
Hose i.D. 25	75	32	30	185	WS 25 T	WS 25 TAB

WaterProfi Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.o.Ventil	Type No.w valve
G 1/2 f	56	27	32	11	170	WS 12 I	WS 12 IAB
G 3/4 f	56	30	32	11	172	WS 34 I	WS 34 IAB

WaterProfi Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.o.Ventil	Type No.w valve
G 1/2 m	61	27	32	10	178	WS 12 A	WS 12 AAB
G 3/4 m	62	30	32	10	198	WS 34 A	WS 34 AAB

WaterProfi Couplings with squeeze nut

Hose connection	L	D	L1	Weight	Type No.w/o valve	Type No.w valve
Hose 13x3	59	32	21	175	WS 13 TQ	WS 13 TQAB
Hose 19x4	64	32	28	235	WS 19 TQ	WS 19 TQAB

WaterProfi Screwing hose stems (for combination with WaterProfi couplings with female thread)

Thread connection	Hose con.	L	L1	L2	Passage	Weight	Type No.
G 3/4 m	Hose i.D. 13	41	32	9	10	37	WS 13 GT
G 3/4 m	Hose i.D. 16	41	32	9	13	38	WS 16 GT
G 3/4 m	Hose i.D. 19	41	32	9	15	49	WS 19 GT
G 3/4 m	Hose i.D. 25	41	32	9	19	68	WS 25 GT

System Adapter WaterProfi Claw Coupling - Quick Connect Coupling DN 9

Connection	L	B	Weight	Type No.
WaterProfi Claw Coupling - Coupling WS DN 9	76.5	54.2	254	WSK-WPA
WaterProfi Claw Coupling - Plug WS DN 9	59.5	54.2	160	WSS-WPA



WaterProfi Quick Connect Couplings

made of Brass Nickel-Plated, **Series WS**

DN9

WaterProfi by **LUDECKE**



WaterProfi Plugs with hose connection

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 13	58	24	32	24	53	WS 13 S
Hose i.D. 16	58	24	32	24	53	WS 16 S
Hose i.D. 19	58	24	32	24	62	WS 19 S
Hose i.D. 25	58	27	32	24	88	WS 25 S

WaterProfi Plugs with female thread (with female thread sealing ring)

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/2 f	38	27	10	24	70	WS 12 NI
G 3/4 f	38	30	10	24	68	WS 34 NI
NEW! G 1 f	38	36	10	24	77	WS 10 NI

WaterProfi Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/2 m	40	24	10	24	55	WS 12 NA
G 3/4 m	41	30	10.5	24	76	WS 34 NA

NEW! WaterProfi Plugs with squeeze nut

Hose connection	L	SW	L1	L2	Weight	Type No.
Hose 13x3	53	19	16	24	106	WS 12 SQ
Hose 19x4	58	19	21	24	154	WS 19 SQ

WaterProfi System Adapter

Connection	L	D	L1	L2	Weight	Type No.
DN 9 - DN 9	52	24	24	24	70	WSA

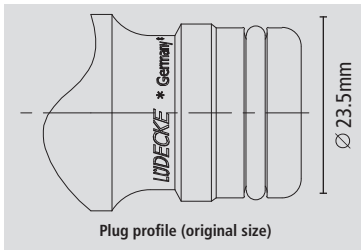
WaterProfi Spray Nozzle with plug-/hose connection-/male thread

Connection	L	B	L1	Passage	⊠	Weight	Type No.
Plug WaterProfi	118	33	24	6.5	1	308	WSD-S
Hose i.D. 13	126	33	32	6.5	1	302	WSD 13 T
Hose i.D. 16	126	33	32	6.5	1	303	WSD 16 T
Hose i.D. 19	126	33	32	6.5	1	312	WSD 19 T
Hose i.D. 25	126	33	32	6.5	1	328	WSD 25 T
G 1/2 m	106	33	12	6.5	1	297	WSD 12 A

WaterProfi Quick Connect Couplings

Series WL made of Brass Nickel-Plated

DN 16



- High quality one-hand operation quick connect couplings made of brass MS 58 nickel-plated
- Easy to connect, high pressure spectrum, superior sealing characteristics, durable, robust, safe and reliable
- Ergonomic sleeve design for perfect handling and compact size
- High water flow due to optimized passage
- Interchangeable with standard plug profile types
- Available with shut-off valves or straight-through
- Quick connect coupling with extra large passage for water lines in industry, trades, agriculture, land scaping, gardening or household

Materials

- Body, sleeve, pin holder, valve, plug: Brass MS 58 nickel-plated
- Pins: Stainless steel 1.4305
- Springs: Spring steel 1.4310
- O-rings: EPDM

WaterProfi
by LUDECKE



Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	5
PN 16 bar	+95°C	16	ISO 228	One-hand	single/straight through	Water	5

WaterProfi Coupling with hose connection

Hose connection	L	D	L1	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 19	86	39	32	275	WL 19 T	WL 19 TAB
Hose i.D. 25	86	39	32	291	WL 25 T	WL 25 TAB
Hose i.D. 32	86	39	32	298	WL 32 T	WL 32 TAB

WaterProfi Coupling with female thread

Thread connection	L	SW	D	L1	Weight	Type No. w/o valve	Type No. w valve
G 3/4 f	66.5	34	39	9	303	WL 34 I	WL 34 IAB
G 1 f	67	38	39	11	302	WL 10 I	WL 10 IAB
G 1 1/4 f	67	46	39	11	330	WL 54 I	WL 54 IAB

WaterProfi Screwing hose stems (for combination with WaterProfi-Couplings with female thread)

Thread connection	Hose connection	L	L1	L2	Passage	Weight	Type No.
G 3/4 m	Hose i.D. 19	41	32	9	15	49	WS 19 GT
G 3/4 m	Hose i.D. 25	41	32	9	19	68	WS 25 GT

WaterProfi Plugs with hose connection

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 19	64	32	32	29	97	WL 19 S
Hose i.D. 25	64	32	32	29	116	WL 25 S
Hose i.D. 32	64	34	32	29	149	WL 32 S

WaterProfi Plugs with female thread (With female thread sealing ring)

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/4 f	43	32	10	29	122	WL 34 NI
G 1 f	44	38	12	29	148	WL 10 NI
G 1 1/4 f	46	46	12	29	214	WL 54 NI

WaterProfi Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/4 m	51	30	11	29	127	WL 34 NA
G 1 m	51	38	11	29	181	WL 10 NA
G 1 1/4 m	55	46	15	29	238	WL 54 NA

WaterProfi Plug Adapter

Connection	L	D	L1	L2	Weight	Type No.
DN 16 - DN 16	62	32	29	29	116	WLA
DN 9 - DN 16	57	32	24	29	91	WLWSA



WaterProfi Quick Connect Couplings

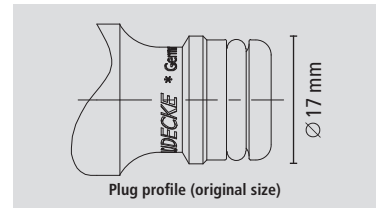
made of Stainless Steel, Series WSE

- High quality one-hand operation Quick Connect Couplings of stainless steel
- Easy to connect, high pressure spectrum, superior sealing characteristics and durable
- Robust, safe and reliable
- Flat sleeve contour for the prevention of dirt accumulation
- High water flow due to optimized passage
- Interchangeable with standard plug profile types, available with shut-off valves or straight through
- Quick Connect Coupling for applications with specific hygienic requirements or for hot water e.g. for cleansing in the food industry

Materials

- Body, sleeve, pin holder, valve, pins, plug: Stainless steel 1.4305
- Springs: Stainless steel 1.4310
- O-rings: EPDM

DN 9



Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 16 bar	+95°C	16	ISO 228	One-hand	single/straight through	Water	Coupl. 1/Plug 5

WaterProfi by **LUDECKE**

WaterProfi Coupling with hose connection

Hose connection	L	D	L1	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	75	34	30	163	WSE 13 T	WSE 13 TAB
Hose i.D. 16	75	34	30	164	WSE 16 T	WSE 16 TAB
Hose i.D. 19	75	34	30	171	WSE 19 T	WSE 19 TAB
Hose i.D. 25	75	34	30	194	WSE 25 T	WSE 25 TAB



WaterProfi Coupling with female thread

Thread connection	L	SW	D	L1	Weight	Type No. w/o valve	Type No. w valve
G 3/4 f	56	30	34	9	170	WSE 34 I	WSE 34 IAB



WaterProfi-Screwing hose stem (for Combination with WaterProfi Couplings with female thread)

Thread connection	Hose connection	L	L1	L2	Passage	Weight	Type No.
G 3/4 m	Hose i.D. 13	41	32	9	10	35	WSE 13 GT
G 3/4 m	Hose i.D. 16	41	32	9	13	39	WSE 16 GT
G 3/4 m	Hose i.D. 19	41	32	9	15	50	WSE 19 GT
G 3/4 m	Hose i.D. 25	41	32	9	19	62	WSE 25 GT



WaterProfi Plugs with hose connection

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 13	58	24	32	24	61	WSE 13 S
Hose i.D. 16	58	24	32	24	65	WSE 16 S
Hose i.D. 19	58	24	32	24	67	WSE 19 S
Hose i.D. 25	58	27	32	24	83	WSE 25 S



WaterProfi Plugs with female thread (With female thread sealing ring)

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/2 f	38	27	10	24	67	WSE 12 NI
G 3/4 f	38	30	10	24	64	WSE 34 NI



WaterProfi Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/2 m	40	24	10	24	53	WSE 12 NA
G 3/4 m	41	30	11	24	74	WSE 34 NA



WaterProfi Plug Adapter

Connection	L	D	L1	L2	Weight	Type No.
DN 9 - DN 9	52	24	24	24	66	WSEA





WaterProfi Wand Nozzle

Extensive Watering – Comfortable and Easy



Whether for use in nurseries, commercial landscaping or private gardens, products are in demand, which enable a simple and thorough watering of the beds and green areas. Simultaneously, the user should be relieved the best possible way while working.

Exactly this is offered with the new WaterProfi Wand Nozzle by **LUDECKE**: a targeted and extensive watering with minimal effort and maximal comfort.



Highlight of the **LUDECKE** WaterProfi wand nozzle is a sophisticated dispensing system through a slide valve technology, which means the water-jet is continuously adjustable by simply sliding the sleeve on the handle. The sleeve remains at the set position and relieves the hand during continuous spraying. Due to the comfortable surface material and the ergonomic design, the Wand Nozzle fits comfortably in the hand even after an extended working period. The modular construction of the Wand Nozzle allows various combinations.

High-quality

- Robust and durable Wand Nozzle with high range
- Sophisticated patented technology of the handle (slide valve technology)

Ergonomic

- Handle of soft PVC (pearl structure): The Wand Nozzle fits comfortably in the hand and neutralizes temperature fluctuation (with cold and hot water flow).
- Light weight – for a continual and fatigue-free usage

Flexible

- Exchangeable Components
- Connecting types compatible with standard plug files and coupling systems

Premium High-Quality Components

Spray head in several sizes
(Ø 30/ Ø 52 mm)
and with different bores
(Ø 0.7/ Ø 1.0 mm)

Ø 52 mm, Bore 1.0 mm

Ø 52 mm, Bore 0.7 mm

Ø 30 mm, Bore 1.0 mm

Stabile extension tube
In three different lengths (400, 600, 900 mm)

Slide valve technology (patent protected):
Water Dosage is progressively adjustable

Sieve in Handle
Dirt protection

Different connection types
flexibility as possible

- Female thread
- Claw Coupling
- Plug System WS DN 9
- Plug System WL DN 16

Highly Versatile



The WaterProfi wand nozzle is highly versatile and is coordinated on various demands.

WaterProfi Wand Nozzle

WaterProfi by **LUDECKE**



- High quality, free adjustable wand nozzle with one-hand operation and spray head up to 60 l flow rate
- Easy and simple regulation by a patent protected slide valve technology
- Various spray heads, tube lengths and connectors
- Soft and comfortable Handle
- Sieve in handle protects against dirt
- For commercial and private applications for garden designers and landscapers plantations and nursery gardens

Materials

- Body: Brass MS 58 and aluminium galvanic nickel-plated
- Switching sleeve: Aluminium hartcoated
- Casting tube, spray head: Aluminium
- Plug: Brass MS 58 nickel-plated
- O-ring: FKM
- Claw: Brass CW617N
- Handle: Soft PVC

Max. Working Pressure	Temperature	Thread	Media	
PN 16 bar	+95°C	ISO 228	Water	1

Wand Nozzle with female thread 3/4"- ISO 228

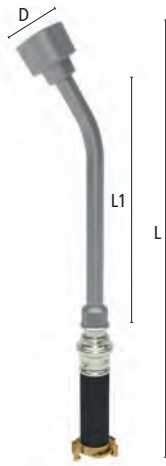
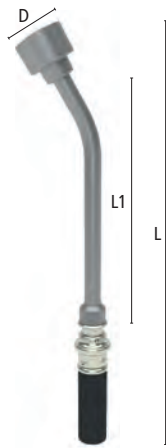
Thread connection	L	D	L1	Ø Bores	Type No.
G 3/4 f	600	30	400	1.0	GG 403010 34I
G 3/4 f	800	30	600	1.0	GG 603010 34I
G 3/4 f	1100	30	900	1.0	GG 903010 34I
G 3/4 f	600	52	400	0.7	GG 405207 34I
G 3/4 f	800	52	600	0.7	GG 605207 34I
G 3/4 f	1100	52	900	0.7	GG 905207 34I
G 3/4 f	600	52	400	1.0	GG 405210 34I
G 3/4 f	800	52	600	1.0	GG 605210 34I
G 3/4 f	1100	52	900	1.0	GG 905210 34I

Slide valve can be regreased if necessary

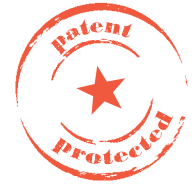
Wand Nozzle with WaterProfi claw coupling

Connection	L	D	L1	Ø Bores	Type No.
Claw coupling	600	30	400	1.0	GG 403010 GKA
Claw coupling	800	30	600	1.0	GG 603010 GKA
Claw coupling	1100	30	900	1.0	GG 903010 GKA
Claw coupling	600	52	400	0.7	GG 405207 GKA
Claw coupling	800	52	600	0.7	GG 605207 GKA
Claw coupling	1100	52	900	0.7	GG 905207 GKA
Claw coupling	600	52	400	1.0	GG 405210 GKA
Claw coupling	800	52	600	1.0	GG 605210 GKA
Claw coupling	1100	52	900	1.0	GG 905210 GKA

Slide valve can be regreased if necessary



WaterProfi Wand Nozzle



Wand Nozzle with WaterProfi Plug WS DN 9

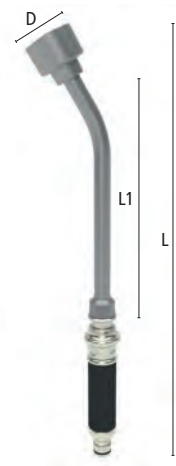
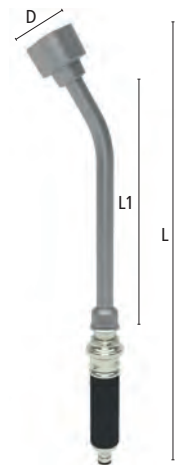
Connection	L	D	L1	Ø Bores	Type No.
Plug WS DN 9	600	30	400	1.0	GG 403010 WS
Plug WS DN 9	800	30	600	1.0	GG 603010 WS
Plug WS DN 9	1100	30	900	1.0	GG 903010 WS
Plug WS DN 9	600	52	400	0.7	GG 405207 WS
Plug WS DN 9	800	52	600	0.7	GG 605207 WS
Plug WS DN 9	1100	52	900	0.7	GG 905207 WS
Plug WS DN 9	600	52	400	1.0	GG 405210 WS
Plug WS DN 9	800	52	600	1.0	GG 605210 WS
Plug WS DN 9	1100	52	900	1.0	GG 905210 WS

Slide valve can be regreased if necessary

Wand Nozzle with WaterProfi Plug WL DN 16

Connection	L	D	L1	Ø Bores	Type No.
Plug WL DN 16	600	30	400	1.0	GG 403010 WL
Plug WL DN 16	800	30	600	1.0	GG 603010 WL
Plug WL DN 16	1100	30	900	1.0	GG 903010 WL
Plug WL DN 16	600	52	400	0.7	GG 405207 WL
Plug WL DN 16	800	52	600	0.7	GG 605207 WL
Plug WL DN 16	1100	52	900	0.7	GG 905207 WL
Plug WL DN 16	600	52	400	1.0	GG 405210 WL
Plug WL DN 16	800	52	600	1.0	GG 605210 WL
Plug WL DN 16	1100	52	900	1.0	GG 905210 WL

Slide valve can be regreased if necessary



WaterProfi Wand Nozzle



- High quality, free adjustable Wand nozzle with one-hand operation and spray head up to 60 l flow rate
- Easy and simple regulation by a patent protected slide valve technology
- Various spray heads, tube lengths and connectors
- Soft and comfortable handle
- Sieve in handle protects against dirt
- For commercial and private applications for garden designers and landscapers plantations and nursery gardens

Materials

- Body: Brass MS 58 and aluminium galvanic nickel-plated
- Switching sleeve: Aluminium hartcoated
- Casting tube, spray head: Aluminium
- Plug: Brass MS 58 nickel-plated
- O-ring: FKM
- Claw: Brass CW617N
- Handle: Soft PVC

Max. Working Pressure	Temperature	Thread	Media
PN 16 bar	+95°C	ISO 288	Water



Handle with slide valve for Wand Nozzle

Thread connection	L	D	L1	L2	Weight	Type No.
G 3/4 f - G 3/4 m	182	44	12	22	348	GG HS

Slide Valve can be regreased with silicon grease if necessary



Spray Head - small version

Thread connection	L	D	Ø Spray head bore	Weight	Type No.
G 3/4 f	35	30	1.0	33	GGK 3010



Spray Head - large version

Thread connection	L	D	Ø Spray head bore	Weight	Type No.
G 3/4 f	51	52	0.7	55	GGK 5207
G 3/4 f	51	52	1.0	61	GGK 5210

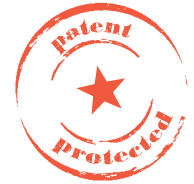


Casting Tube

Thread connection	L	Weight	Type No.
G 3/4 m - G 3/4 f	400	75	GGR 400-34
G 3/4 m - G 3/4 f	600	120	GGR 600-34
G 3/4 m - G 3/4 f	900	166	GGR 900-34

WaterProfi Wand Nozzle

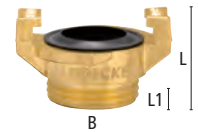
WaterProfi by **LUDECKE**



Fittings and spare parts for the Wand Nozzle

WaterProfi Male Claw Coupling

Thread connection	L	B	L1	Passage		Weight	Type No.
G 3/4 m	32	53.5	10.5	20	10	100	GKA 34



WaterProfi Plug with male thread (Series WS DN 9)

Thread connection	L	SW	L1	L2		Weight	Type No.
G 3/4 m	41	30	10.5	24	5	76	WS 34 NA



WaterProfi Plug with male thread (Series WL DN 16)

Thread connection	L	SW	L1	L2		Weight	Type No.
G 3/4 m	51	30	11	29	5	127	WL 34 NA



WaterProfi Screwing hose stems for direct hose connection

Thread connect.	Hose connect.	L	L1	L2	Passage		Weight	Type No.
G 3/4 m	Hose i.D. 13	41	32	9	10	5	37	WS 13 GT
G 3/4 m	Hose i.D. 16	41	32	9	13	5	38	WS 16 GT
G 3/4 m	Hose i.D. 19	41	32	9	15	5	49	WS 19 GT
G 3/4 m	Hose i.D. 25	41	32	9	19	5	68	WS 25 GT



Sieve

Resistance	L	D	D1	Material	Temp°C	Media	Colour	Shore A		Weight	Type No.
Water	9	25	16	Buna N	+95	Water	black	70°	10	3	GG-SIEB 34



O-ring for female thread

Resistance	Con.	L	D	D1	Material	Temp°C	Media	Colour	Shore A		Weight	Type No.
Water	3/4 f	2	26	18	EPDM	+95	Water	black	65°	100	1	GDRG 34





WaterProfi Claw Couplings

The Robust Classic



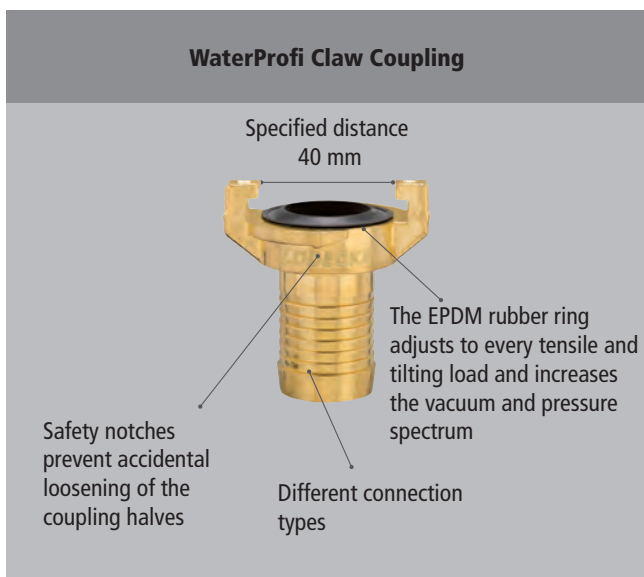
The WaterProfi claw couplings are completely made of brass. Thus, claw types are extremely durable and highly wear resistant. Additionally, the couplings are extremely weather and temperature resistant and guarantee a particularly secure hold. WaterProfi Claw types are compatible with all water claw couplings with a claw distance of 40 mm and therefore universally applicable.

Advantages:

- Robust, safe and reliable
- Easy to connect, high pressure and vacuum capabilities, reduced "breakdown torque"
- Maximum bore at optimum wall thickness
- Soft and safe hose tail design
- Ergonomically formed claws, safety notches against accidental loosening
- High performance O-Ring of EPDM with perfect elasticity and resistance features (interchangeable with standard O-rings used on the market)

The WaterProfi Claw Couplings are especially suitable for applications with high water pressure or for especially rough working conditions.

Highest Quality for Trouble-Free Usage



Connected in Seconds

Bring the two couplings together on the front end side in order to connect the sealing surfaces. Then twist one coupling half against the other and turn up to the end - the couplings lock into place.



To disconnect, push the coupling and the counterpart together in the axial direction. Again turn one part of the coupling in the opposite direction for disconnecting until the end stops and remove it from the counterpart.

WaterProfi Spray Nozzle

The WaterProfi series offers high-quality spray nozzle. Those are conically metal sealed and – depending on the application – with a hose connection port or a claw coupling.

Proven coupling system:
connection to the hose through simple 45° rotation

Connection port for simple
connecting to a hose, also
available with an integra-
ted hose barb



Compact nozzle head
for an easy flow
regulation



Easy Flow Control - from Mist to Full Water Jet



All spray nozzle enable a perfect flow control from mist to full water jet and the possibility to stop the water flow while twisting of the spray nozzle.

WaterProfi Claw Couplings

made of Brass for Water Applications



- High quality couplings of forged brass CW617N
- Easy to couple, high pressure and vacuum-spectrum, reduced "breakdown torque"
- Maximum bore at optimum wall thickness as well as soft hose tail design
- Ergonomic formed claws, optimum security with safety notches against accidental opening
- High performance rubber ring of EPDM with perfect elasticity and resistance
- Interchangeable with standard Water Claw Couplings with claw distance of 40 mm
- Sealing washer, usable with almost all standard water claw coupling seals
- Spray Nozzle with flow control with smooth transition from mist to full jet
- **Universal coupling for water lines in industry, construction, garages, agriculture or civil installations**

Materials

- Claw, connector: Brass CW617N
- O-ring: EPDM

Max. Working Pressure	Temperature	Thread	Claw distance	Media	⊗
PN 25 bar	up to +95°C	ISO 228	40 mm	Water	10

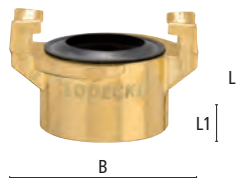
WaterProfi Hose Claw Couplings



Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 10	50	53.5	28	7.5	93	GSK 10
Hose i.D. 13	50	53.5	28	10.5	94	GSK 13
Hose i.D. 16	54	53.5	32	13.5	102	GSK 16
Hose i.D. 19	54	53.5	32	16.5	102	GSK 19
Hose i.D. 25	58	53.5	36	21.5	125	GSK 25
Hose i.D. 32	70	53.5	49	23	176	GSK 32
Hose i.D. 38	73	53.5	49	23	209	GSK 38

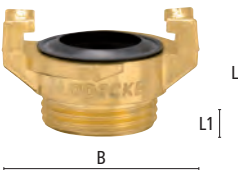
For hose clips type HS (⊗ page 415), type ZOS (⊗ page 414) or crimping ferrules type LPH (⊗ page 418)

WaterProfi Female Claw Couplings with thread O-Ring



Thread connection	L	B	L1	Passage	Weight	Type No.
G 1/4 f	31.5	53.5	7.5	8	96	GKI 14
G 3/8 f	31.5	53.5	7.5	11	95	GKI 38
G 1/2 f	31.5	53.5	7.5	14	97	GKI 12
G 3/4 f	32.5	53.5	8	19	102	GKI 34
G 1 f	33	53.5	9	23	115	GKI 10
G 1 1/4 f	37	53.5	11	23	143	GKI 54
G 1 1/2 f	38	53.5	11.5	23	177	GKI 15

WaterProfi Male Claw Couplings



Thread connection	L	B	L1	Passage	Weight	Type No.
G 1/4 m	32	53.5	10	8	89	GKA 14
G 3/8 m	32	53.5	9.5	11.5	97	GKA 38
G 1/2 m	32	53.5	10	15	96	GKA 12
G 3/4 m	32	53.5	10.5	20	100	GKA 34
G 1 m	32	53.5	10	23	104	GKA 10
G 1 1/4 m	36	53.5	15	23	132	GKA 54
G 1 1/2 m	36	53.5	15	23	163	GKA 15

Male thread sealing with PVC sealing ring type HPD (⊗ page 231)

WaterProfi Plain End Claw Coupling



Version	L	B	Weight	Type No.
Without Chain	37	53.5	103	GKO

Original Rubber Ring for Water Claw Couplings, LÜDECKE WaterProfi and all Standard Water Claw Couplings

(not for GEKA plus)



Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A	⊗	Weight	Type No.
Water	12	35	23.5	EPDM	+95	Water	black	70°	100	6	GKOR

WaterProfi Claw Couplings and Spray Nozzle

made of Brass for Water Applications



WaterProfi by LUDECKE

WaterProfi MODY-Safety-Screwing-Claw Couplings with hose barb

Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 13	77	53.5	42	10	190	GSSG 13
Hose i.D. 19	82	53.5	42	16.5	215	GSSG 19
Hose i.D. 25	86	53.5	42	20	270	GSSG 25

For hose clips type HS (© page 415), type ZOS (© page 414) or crimping ferrules type LPH (© page 418)
Thread types on request (GSSGA 34 available from stock)



Original Rubber Ring with support ring of brass for MODY-Safety-Screwing- Claw Couplings of brass

Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A	Weight	Type No.	
Water	7	33.5	21.5	NBR/MS	+95	Water	black	65°	10	6	GSGOR-Set



Classic WaterProfi Spray Nozzles of brass – conical sealing brass to brass (PN 10 bar)

Hose connection	L	Ø Nozzle bore	Weight	Type No.
Hose i.D. 13	100	5	115	SDT 13
Hose i.D. 19	112	6.5	245	SDT 19
Hose i.D. 25	125	7	370	SDT 25



Connection	L	Ø Nozzle bore	Weight	Type No.
WaterProfi Coupling	98	5	220	SDK 12
WaterProfi Coupling	113	6.5	310	SDK 34
WaterProfi Coupling	121	7	410	SDK 10



System-Adapter WaterProfi Claw Coupling - Quick Connect Coupling DN 9

Connection	L	B	Weight	Type No.
WaterProfi Claw Coupling - Coupling WS DN 9	76.5	54.2	254	WSK-WPA
WaterProfi Claw Coupling - Plug WS DN 9	59.5	54.2	160	WSS-WPA





GEKA plus Claw Couplings made of Brass for Drinking Water Applications

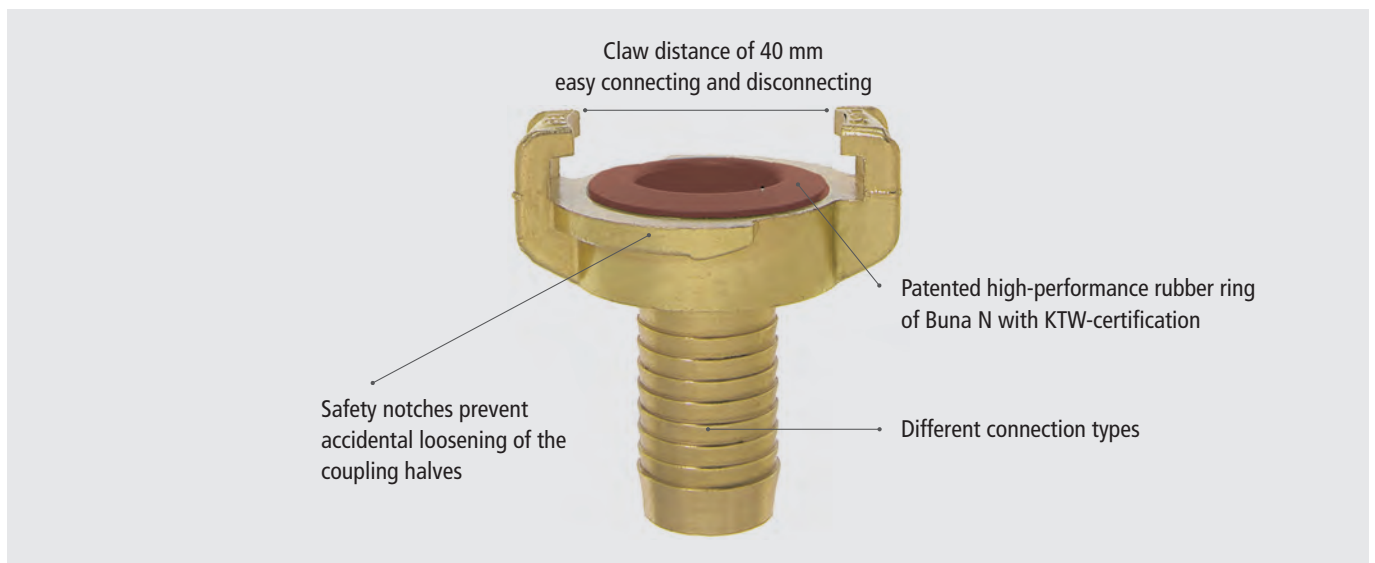
DVGW
tested and
approved

The GEKA plus - Claw Couplings made of forged brass are the ideal all-rounders for drinking water applications. These products are approved according to DIN 50930/6 and DIN 17660. Additionally, the claw couplings have a patented high performance rubber ring of Buna N with optimum elasticity (KTW approved according to D2 as well as long-term test result DVGW W270).

Advantages

- Easy to connect, high pressure and vacuum capabilities, reduced breakdown torque
- Maximum passage with optimum wall thickness, safe and hose sparing hose barbs
- Ergonomically formed claws, safety notches against accidental loosening

First-class and Tested Materials



Easy Handling - Safe and Firm Hold



The principle of connecting is identical with the functioning of the WaterProfi Claw Couplings. Both couplings are connected at the front end side in order to connect the sealing surfaces. Afterwards one coupling half has to be twisted against the other until end stop – the couplings lock into place.

GEKA plus Claw Couplings

made of Brass for Drinking Water Applications

- High quality couplings of forged brass CW617N, DIN 50930/6 and DIN 17660
- Easy to couple, high pressure and vacuum-spectrum, reduced "breakdown torque"
- Maximum bore at optimum wall thickness as well as soft hose tail design
- Ergonomic formed claws, optimum security with safety notches against accidental opening
- Patented high performance rubber ring of Buna N with perfect elasticity
- DVGW-Test-Certified, Reg. Nr. DW-0310BT0218
- Meet the requirements of DIN 50930/6, DIN 17660, DVGW-W270, KTW approved according to D2
- [Universal coupling for drinking water lines](#)

Materials

- Claw, connector: Brass CW617N
- O-rings: Buna N

DVGW
tested and
approved

DVGW W270/
KTW

Max. Working Pressure	Temperature	Thread	Claw distance	Media	
PN 40 bar	-5°C – +100°C	ISO 228	40 mm	Water	10

KTW-Hose Claw Couplings GEKA plus

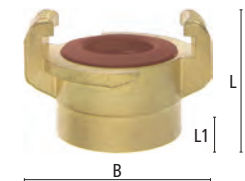
Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 13	49.5	53.5	28	10	71	GSK 13-KTW
Hose i.D. 19	53.5	53.5	32	17	100	GSK 19-KTW
Hose i.D. 25	57.5	53.5	37	21.5	119	GSK 25-KTW

For hose clips type HS (page 415), type ZOS (page 414) or crimping ferrules type LPH (page 418)



KTW-Female Thread Claw Couplings GEKA plus with thread sealing ring

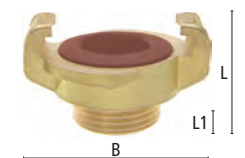
Thread connection	L	B	L1	Passage	Weight	Type No.
G 3/8 f	31	53.5	9.5	11	94	GKI 38-KTW
G 1/2 f	31	53.5	9.5	14	94	GKI 12-KTW
G 3/4 f	32	53.5	10.5	19	90	GKI 34-KTW
G 1 f	33	53.5	11	23	100	GKI 10-KTW



KTW-Male Thread Claw Couplings GEKA plus

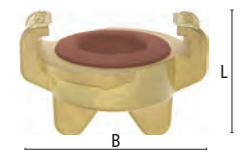
Thread connection	L	B	L1	Passage	Weight	Type No.
G 1/2 m	31	53.5	8	15	85	GKA 12-KTW
G 3/4 m	32	53.5	8	20	91	GKA 34-KTW
G 1 m	31	53.5	8	23	90	GKA 10-KTW

Male Thread Sealing with PVC-Selaing Rings Typ HPD (page 231)



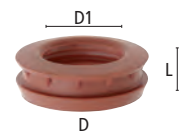
KTW-Plain End Claw Couplings GEKA plus

Version	L	B	Weight	Type No.
Without chain	35	53.5	90	GKO-KTW



Original Rubber Ring for GEKA plus Couplings KTW approved for drinking water according to directive DIN 50930/6

Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A		Weight	Type No.
Water	10.8	33.5	20.5	Buna N	-30 – +90	Water	brown	65°	10	5	GKOR-KTW



Original Rubber Ring for GEKA plus-Couplings (not for WaterProfi)

Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A		Weight	Type No.
Water	10.8	33.5	20.5	Buna N	-30 – +90	Water	black	65°	100	4	GKOR-N





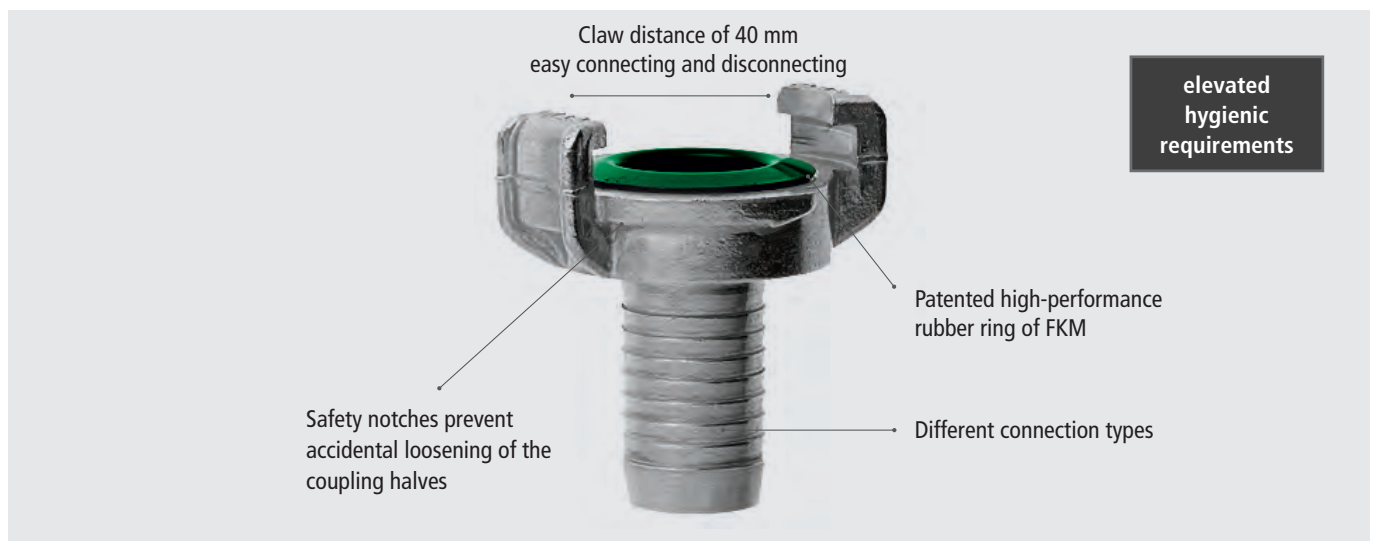
GEKA plus Claw Couplings made of Chromium Steel for Applications with Elevated Hygienic Requirements

The GEKA plus Claw Couplings of chromium steel fit especially for applications in the chemical industry, for water, lye and aggressive media. The coupling contains a patented special FKM rubber ring with optimum elasticity.

Advantages

- Easy to connect, high pressure and vacuum capabilities, reduced "breakdown torque"
- Maximum passage with optimum wall thickness, safe and hose sparing hose barbs
- Ergonomically formed claws, safety notches against accidental loosening

First-Class Materials



Easy Handling – Safe and Firm Hold



The principle of connecting is identical with the functioning of the WaterProfi Claw Couplings. Both couplings are connected at the front end side in order to connect the sealing surfaces. Afterwards one coupling half has to be twisted against the other until end stop – the couplings lock into place.

GEKA plus Claw Couplings

made of Chromium Steel for Applications with Elevated Hygienic Requirements

elevated
hygienic
requirements

- High quality couplings of chromium steel similar to 1.4401
- Easy to couple, high pressure and vacuum-spectrum, reduced "breakdown torque"
- Maximum bore at optimum wall thickness as well as soft hose tail design
- Ergonomic formed claws, optimum security with safety notches against accidental opening
- Patented high performance rubber ring of FKM (DIN ISO 1625) with perfect elasticity
- **Universal coupling for applications in chemical industry, for water, lye or aggressive media**

Materials

- Claw, connector: Chromium steel similar to 1.4401
- O-ring: FKM

Max. Working Pressure	Temperature	Thread	Claw distance	Media	☞
PN 40 bar	-5°C – +100°C	ISO 228	40 mm	Water/ lye	5

Hose Claw Couplings GEKA plus

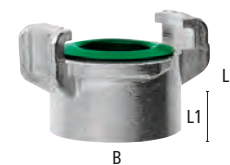
Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 13	50	53.5	28	10	89	GSK 13 SS
Hose i.D. 19	52.5	53.5	32	17	92	GSK 19 SS
Hose i.D. 25	57.5	53.5	37	21.5	117	GSK 25 SS

For hose clips type SLE (☞ page 413), and type HSE (☞ page 416)



Female Claw Couplings GEKA plus with thread sealing ring

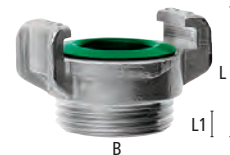
Thread connection	L	B	L1	Passage	Weight	Type No.
G 1/2 f	30.5	53.5	9.5	14	82	GKI 12 SS
G 3/4 f	31.5	53.5	10.5	19	88	GKI 34 SS
G 1 f	32.5	53.5	11	23	100	GKI 10 SS



Male Claw Couplings GEKA plus

Thread connection	L	B	L1	Passage	Weight	Type No.
G 1/2 m	30.5	53.5	8	15	80	GKA 12 SS
G 3/4 m	33	53.5	8	20	91	GKA 34 SS
G 1 m	31	53.5	8	23	86	GKA 10 SS

Male thread sealing with sealing ring type HPD (☞ page 231)



Plain End Claw Coupling GEKA plus

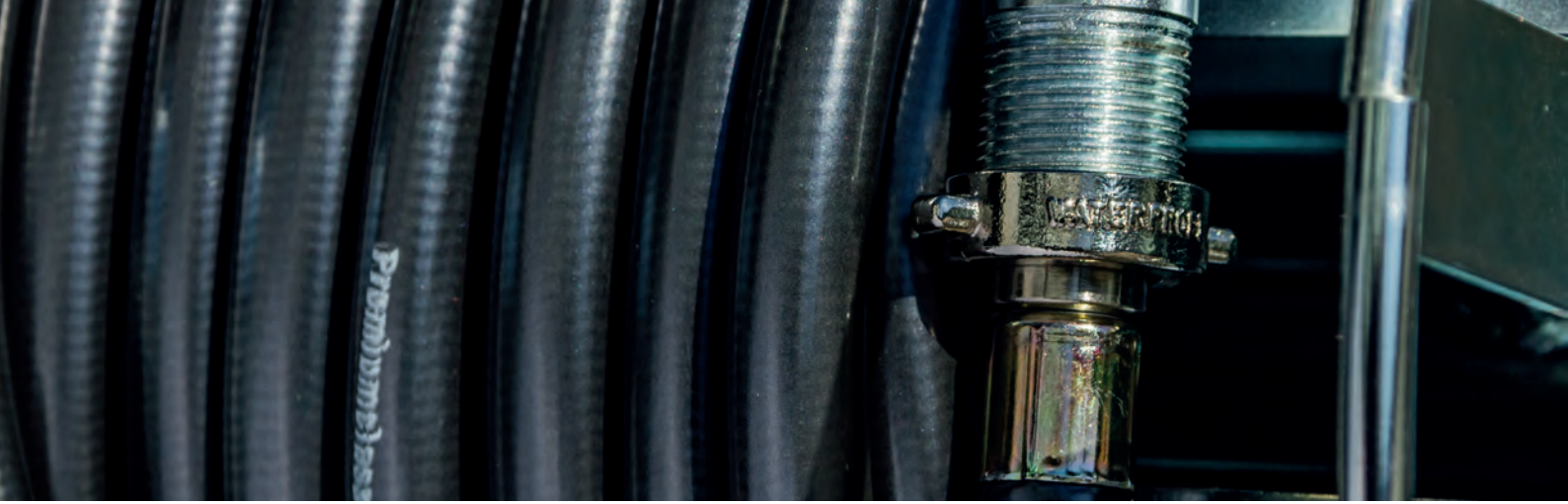
Version	L	B	Weight	Type No.
without chain	36.5	53.5	85	GKO SS



Original Rubber Ring for GEKA plus-Couplings of chromium steel

Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A	☞	Weight	Type No.
Water	10.8	33.5	20.5	FKM	-20 – +160	Water	green	65°	10	5	GKVR-N



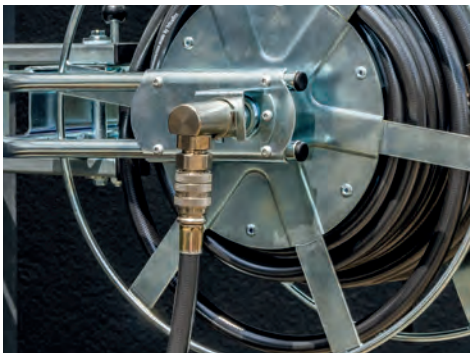


Accessories

For Water Applications, as well as Pneumatic Use

LUDECKE offers a wide range of accessories related to the water application program, which offers a perfect fit and a great variation range to combine these products according to your needs.

Swivel Transmissions



The **LUDECKE** swivel transmissions are designed to be used in hose or tubing applications in which the components are highly effected by rotations and vibrations (e.g. hose reels or wall hose reels).

- Avoids any kind of kinking and abrasion to the hose and hose connection
- Media transport without outside influences regarding efficiency and flow
- For applications with rolling possibilities and connectors with heavy strains due to vibrations, twisting and sideways movements
- Also available with KTW (drinking water) certification

Hose Screw Type Fittings



The **LUDECKE** WaterProfi hose screw type fittings are often used as a solid connection on machines or to connect hoses.

We recommend the hose screw type fittings on hose connection to hose reels or wall hose reels.

- Solid connection from hose to tool / machine
- Robust, safe, leak proofed and durable
- Available in brass plain and brass nickel-plated

Additional Accessories



- Fittings
- Ball valves taps
- Return valves and check foot valves with strainer
- Thread stems with male thread and hose squeeze nut ferrule
- PVC Water Hose "ALBA Premium class"
- Hose clips, hose clamps of steel and stainless steel, low pressure ferrules, hand-operated assembly machine

Swivel Transmissions

made of Brass for Water Applications

- High quality swivel transmission made of brass MS 58 nickel-plated or high resistant special brass (KTW compliant) – for drinking water applications
- High resistant swivel joint, offering optimized flow rates
- For pneumatic and fluid applications with rotating movement and heavy restrained connectors through vibrations, twisting and sideways movements

Materials

- Swivel transmission: Brass MS 58 nickel-plated/special brass (KTW compliant)
- O-ring: EPDM

Max. Working Pressure	Temperature	Thread	Media	
PN 10 bar	+95°C	ISO 228	Water	1

Swivel transmission straight made of brass nickel-plated

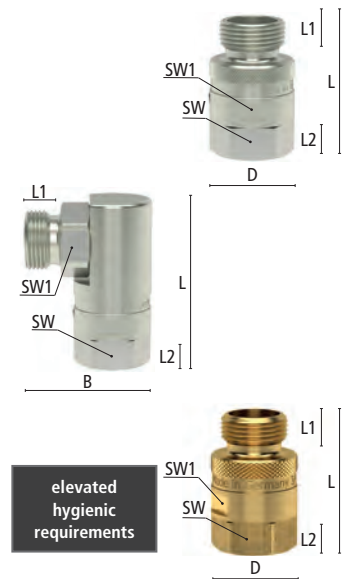
Thread connection	L	SW	D	L1	L2	SW1	Passage	Version	Weight	Type No.
G 3/4 a - G 3/4 f	54	30	34	15.5	8	30	17	straight	180	DV 34 IA
G 1 a - G 1 f	60	41	45	15.5	14	41	25.5	straight	350	DV 10 IA

Swivel transmission 90° brass nickel-plated

Thread connection	L	SW	B	L1	L2	SW1	Passage	Version	Weight	Type No.
G 3/4 m - G 3/4 f	74	30	55	15.5	8	30	17	90°	420	DV 3490 IA

Swivel transmission straight of special brass (KTW compliant)

Thread connection	L	SW	D	L1	L2	SW1	Passage	Version	Weight	Type No.
G 3/4 m - G 3/4 f	54	30	34	15.5	8	30	17	straight	180	DV 34 IA-T
G 1 m - G 1 f	60	41	45	15.5	14	41	25.5	straight	350	DV 10 IA-T



Hose Screw Type Fittings

made of Brass for Water Applications

- High quality hose screw type fittings made of brass MS 58
- Quick to release connection from hose to tools
- Robust, safe, leak proof and durable

Materials

- Hose screw type fitting: Brass MS 58 plain/ nickel-plated
- O-ring: EPDM

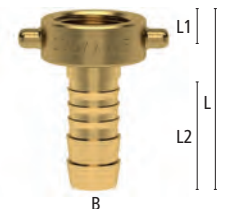
Max. Working Pressure	Temperature	Thread	Media	
PN 10 bar	+95°C	ISO 228	Water	10

Hose screw type fitting made of brass plain, female threads and union nut

Thread connection	Hose connection	L	B	L1	L2	Passage	Weight	Type No.
G 1/2 f	Hose i.D. 13	46	40	9	30	11	55	12/13 M
G 3/4 f	Hose i.D. 13	46.5	45	9.5	30	11	66	34/13 M
G 3/4 f	Hose i.D. 16	46.5	45	9.5	30	13	72	34/16 M
G 3/4 f	Hose i.D. 19	46.5	45	9.5	30	16	76	34/19 M
G 1 f	Hose i.D. 19	48	60	11	30	16	127	10/19 M
G 1 f	Hose i.D. 25	48	60	11	30	20.5	130	10/25 M

Hose screw type fitting made of brass nickel-plated, female threads and union nut

Thread connection	Hose connection	L	B	L1	L2	Passage	Weight	Type No.
G 1/2 f	Hose i.D. 13	46	40	9	30	11	55	12/13 MN
G 3/4 f	Hose i.D. 13	46.5	45	9.5	30	11	66	34/13 MN
G 3/4 f	Hose i.D. 16	46.5	45	9.5	30	13	72	34/16 MN
G 3/4 f	Hose i.D. 19	46.5	45	9.5	30	16	76	34/19 MN
G 1 f	Hose i.D. 19	48	60	11	30	16	127	10/19 MN
G 1 f	Hose i.D. 25	48	60	11	30	20.5	130	10/25 MN



Fittings and Ball Valve Taps

made of Brass

- Various dimensions for all kind of applications
- Robust, solid and sustainable
- Best flow capacity
- For water supply connection in industry, trades, agriculture and households

Materials

- 2-way distributor, T-Connector, Elbow-Connector: Brass MS 58 plain
- Tap-housing: Brass MS 58 nickel-plated
- Handle: Aluminium
- Balls: hard chromium plated

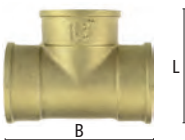
Max. Working Pressure	Thread	Media	
PN 10 bar	ISO 228	Water	5

2-way Distributor



Inlet	Outlet	Passage	Weight	Type No.
G 3/4 f	2 x G 3/4 m	15	85	DWS 34 Y

T-Connector with female thread



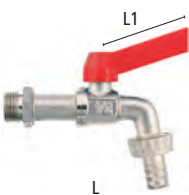
Thread connection	L	B	Weight	Type No.
3 x G 1/2 f	51	39.5	86	TSM 12
3 x G 3/4 f	59	45.5	160	TSM 34
3 x G 1 f	75	54	250	TSM 10

Elbow-Connector with female thread



Thread connection	L	Weight	Type No.
2 x G 1/2 f	25	83	WSM 12
2 x G 3/4 f	30	115	WSM 34
2 x G 1 f	33.5	204	WSM 10

Ball Valve Taps, brass nickel-plated with assembled hose screwing, handle aluminium red, ball hard chromium plated



Inlet	Outlet	Hose connection	L	L1	Weight	Type No.
G 1/2 m	G 3/4 m	Hose i.D. 13	105	55	210	WKH 12
G 3/4 m	G 1 m	Hose i.D. 19	120	55	285	WKH 34

PVC Water Hose "Alba Premium Class"

- 25 meter role without connections

Materials

- Hose: PVC

Max. Working Pressure	Temperature	Colour	Media	
PN 12 bar	-15°C - +60°C	anthracite grey	Water	1

PVC Water Hose



Hose i.D./o.D.	L (m)	Weight	Type No.
16/20.5	25	4200	SPVC 16-25

Return Valves and Check Foot Valves with Strainer

made of Brass

With the help of return valves water shut off in one direction is possible. Check foot valves are return valves assembled with a strainer. Thus, the draining of the suction line will be avoided after switching of the pump.

- Perfectly tight hold even with very low pressure through Nitril sealing
- Hostaform wedge with double central slide

Materials

- Body: Brass MS 58 plain
- Valve: Nylon
- Springs: Stainless steel
- O-ring: Nitril

Max. Working Pressure	Temperature	Opening pressure	Thread	Media	
PN 16 bar	up to +100°C	approx. 0.02 bar	ISO 228	Water	1

Return Valves with female thread

Thread connection	L	D	Weight	Type No.
G 1/4 f	45	28.5	105	RSV 14
G 3/8 f	45	28.5	93	RSV 38
G 1/2 f	47.5	30	100	RSV 12
G 3/4 f	53	37	159	RSV 34
G 1 f	59	44.5	239	RSV 10
G 1 1/4 f	66	56	348	RSV 54*
G 1 1/2 f	71	62.5	450	RSV 15*
G 2 f	80	78.5	730	RSV 20*



Check Foot Valves with strainer, outlet with female thread

Thread connection	L	D	Weight	Type No.
G 3/8 f	89	28.5	90	FVMF 38
G 1/2 f	90	29.5	110	FVMF 12
G 3/4 f	101	37	165	FVMF 34
G 1 f	115	44.5	245	FVMF 10
G 1 1/4 f	126	56	390	FVMF 54*
G 1 1/2 f	140	63	500	FVMF 15*
G 2 f	165	78	800	FVMF 20*



*max. working Pressure: 10 bar

Thread Stems with Male Thread and Hose Squeeze Nut Ferrule

made of Brass for Water Applications for Perfect Hose Assembly

- Easy hose assembly with thread ferrule, multiple use and detachable
- Hose assembly free of dead space for optimized safety- and hygiene standards
- No dirt accumulation between hose and hose barb
- Version according to DIN EN 14 424
- Please note correct hose wall dimensions

Materials

- Screw connection: Brass MS 58 plain

Max. Working Pressure	Temperature	Thread	Media	
PN 25 bar	up to +95°C	ISO 228	Water	10

Thread Stems with Male Thread and Hose Squeeze Nut Ferrule

Hose connect.	Thread connect.	L	SW	L1	SW1	Passage	Weight	Type No.
13x3 - 13x3.8	G 1/2 m	52	22	12	24	10	92	GSA 12-13
19x3.8 - 19x4.2	G 3/4 m	53.5	32	13	32	17	143	GSA 34-19
25x4.4 - 25x5	G 1 m	58.5	36	14	41	22	252	GSA 10-25

Assembly instructions for thread ferrules (☺ page 433)



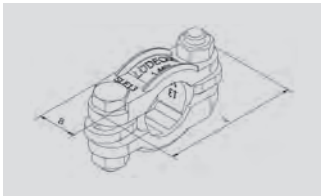
Hose Clamps

made of Stainless Steel

- Robust clamps of stainless steel 1.4401
- Easy and secure, for various fittings and applications


Material

- Clamps, Spacers: Stainless steel 1.4401
- Screws: Stainless steel A4-70



Max. Working Pressure	Norm
PN 16 bar	DIN 20039 A/B

Hose Clamps DIN 20039 A, made of stainless steel 1.4401, two parts with loose spacers

Hose o.D./							
Version	Range	L	B	Size Screws		Weight	Type No.
Hose i.D. 13	18-26	63	18	M 8x30	5	140	SLE 13
Hose i.D. 19	26-33	71	18	M 8x30	5	160	SLE 19
Hose i.D. 25	32-40	81	18	M 10x35	5	210	SLE 25

Double-Ear Hose Clips

- Clips made of special reliable steel, zinc plated and blue chromated (free of chrome VI)
- Easy and fast assembly with pincer
- Concentric and strong clamp-effect, safe and unremovable
- No risk of injury, closed and unremovable connection
- Suitable for assembly of many hoses and fittings for use with various media

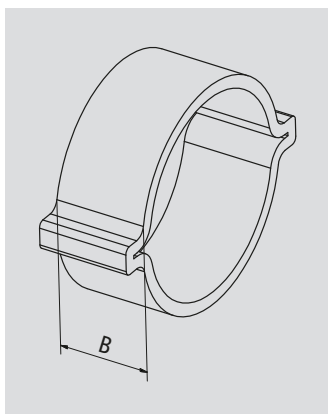
Materials

- Clips: Unbreakable special reliable steel, zinc-plated and blue chromated (free of chrome VI)


100

Double-Ear Hose Clips

Hose-o.D./ Range	B	Weight	Type No.
5-7	5.5	1	ZOS 5-7
7-9	6	2	ZOS 7-9
9-11	6	2	ZOS 9-11
11-13	6	3	ZOS 11-13
13-15	7	4	ZOS 13-15
14-17	7.5	4	ZOS 14-17
15-18	8	5	ZOS 15-18
17-20	8	5	ZOS 17-20
19-21	7	5	ZOS 19-21
20-23	9	8	ZOS 20-23
22-25	9	9	ZOS 22-25
23-27	9	9	ZOS 23-27
25-28	9	10	ZOS 25-28
27-31	9	12	ZOS 27-31
31-34	9	13	ZOS 31-34
34-37	9	16	ZOS 34-37
37-40	9	17	ZOS 37-40
40-43	9	18	ZOS 40-43
Special assembly pincer		332	ZOSZ



High-Performance Hose Clips

made of Steel W1 (DIN 3017)

- High-performance hose clips made of steel W1, free of chrome VI, zinc-plated and thick layer passivated
- Optimum sealing through high band tension – maximum strip safety
- Hose-protective through rounded edges and smooth band inside
- Thinner screw body with new position, therefore improved torque
- Material and clamp range stamped at inner band side
- Hexagon screw with cross-slotted head
- Regularly spaced tension over complete hose diameter
- Up to size 90 in boxes, sizes 100-180 in plastic bags, from size 190 individually
- For safe, fast and removable use on various hoses and fittings for various media

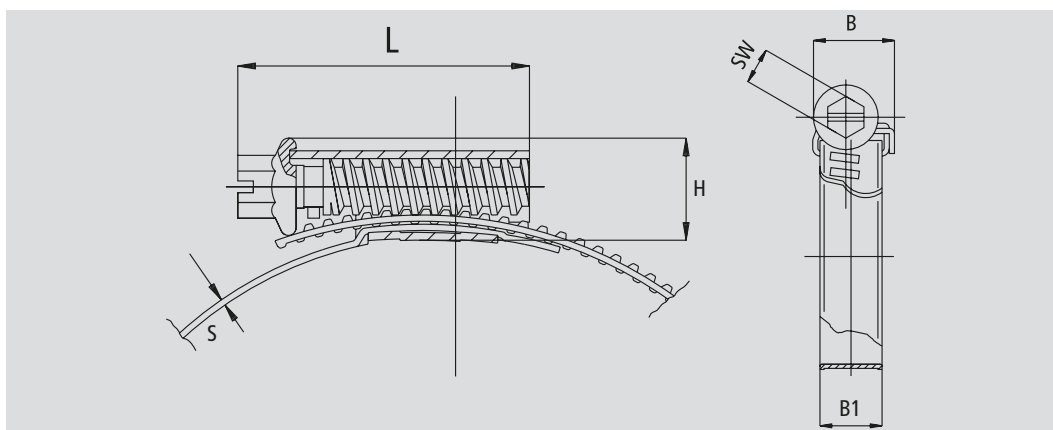
Materials

- Band, Body, Screw: Steel W1, zinc-plated and thick layer passivated

Norm	
DIN 3017	

High-Performance Hose Clips, band and lock steel W 1, zinc-plated

Range	inch	B	SW	torque		band width					Weight	Type No.
				Max.Nm	L	H	B1	S	band-thickness			
8-12	5/18-1/2	14	7	2-2.5	20.5	11.5	9	0.7	100	12	HS 12	
10-16	5/18-5/8	14	7	2-2.5	20.5	11.5	9	0.8	100	13	HS 16	
12-22	1/2-3/4	14	7	3-3.5	24	11.5	9	0.8	100	16	HS 20	
16-27	5/8-1	16	7	5-5.5	31	13	9	0.8	100	17	HS 25	
20-32	3/4-1 1/4	16	7	5-5.5	31	13	12	0.8	50	27	HS 32	
25-40	1-1 5/8	16	7	5-5.5	31	13	12	1.0	50	32	HS 40	
30-45	1 3/8-1 3/4	16	7	5-5.5	31	13	12	1.0	50	33	HS 45	
35-50	1 1/4-2	16	7	5-5.5	31	13	12	1.0	50	35	HS 50	
40-60	1 5/8-2 3/8	16	7	5-5.5	31	13	12	1.0	25	39	HS 60	
50-70	2-2 3/4	16	7	5-5.5	31	13	12	1.0	25	43	HS 70	
60-80	2 3/8-3 1/8	16	7	5-5.5	31	13	12	1.0	25	45	HS 80	
70-90	2 3/4-3 1/2	16	7	5-5.5	37	13	12	1.0	25	52	HS 90	
80-100	3 1/8-4	16	7	5-5.5	37	13	12	1.0	10	53	HS 100	
90-110	3 1/2-4 3/8	16	7	5-5.5	37	13	12	1.0	10	53	HS 110	
100-120	4-4 3/4	16	7	5-5.5	37	13	12	1.0	10	58	HS 120	
110-130	4 3/8-5 1/8	16	7	5-5.5	37	13	12	1.0	10	60	HS 130	
120-140	4 3/4-5 1/2	16	7	5-5.5	37	13	12	1.0	10	63	HS 140	
130-150	5 1/8-5 7/8	16	7	5-5.5	37	13	12	1.0	5	69	HS 150	
140-160	5 1/2-6 1/4	16	7	5-5.5	37	13	12	1.0	5	71	HS 160	
150-170	5 7/8-6 5/8	16	7	5-5.5	37	13	12	1.0	5	74	HS 170	
160-180	6 1/4-7	16	7	5-5.5	37	13	12	1.0	5	77	HS 180	
170-190	6 1/2-7 1/2	16	7	5-5.5	37	13	12	1.0	1	79	HS 190	
180-200	7 1/8-8	16	7	5-5.5	37	13	12	1.0	1	81	HS 200	
190-210	7 1/2-8 1/4	16	7	5-5.5	37	13	12	1.0	1	86	HS 210	
200-220	8-8 3/4	16	7	5-5.5	37	13	12	1.0	1	92	HS 220	
210-230	8 1/8-9	16	7	5-5.5	37	13	12	1.0	1	98	HS 230	
220-240	8 3/4-9 3/8	16	7	5-5.5	37	13	12	1.0	1	101	HS 240	
230-250	9-9 3/4	16	7	5-5.5	37	13	12	1.0	1	105	HS 250	
240-260	9 3/8-10 1/4	16	7	5-5.5	37	13	12	1.0	1	108	HS 260	
250-270	9 3/4-10 1/2	16	7	5-5.5	37	13	12	1.0	1	112	HS 270	
260-280	10 1/4-11	16	7	5-5.5	37	13	12	1.0	1	116	HS 280	



High-Performance Hose Clips

made of Stainless Steel W5 (DIN 3017)

- High performance hose clips made of stainless steel W5
- Optimum sealing through high band tension – maximum strip-safety
- Hose-protective through rounded edges
- Stamped band
- Thinner screw body with new position, therefore improved torque
- Material and clip range stamped at inner band side
- Hexagon screw with slotted head
- Regularly spaced tension over complete hose diameter
- Up to size 90 in boxes, size 100 in plastic bags
- For safe, fast and removable use on various hoses and fittings for various media

Materials

- Band, Body, Screw: Stainless steel W5
- Special Screw Driver: Chromed steel/ plastic

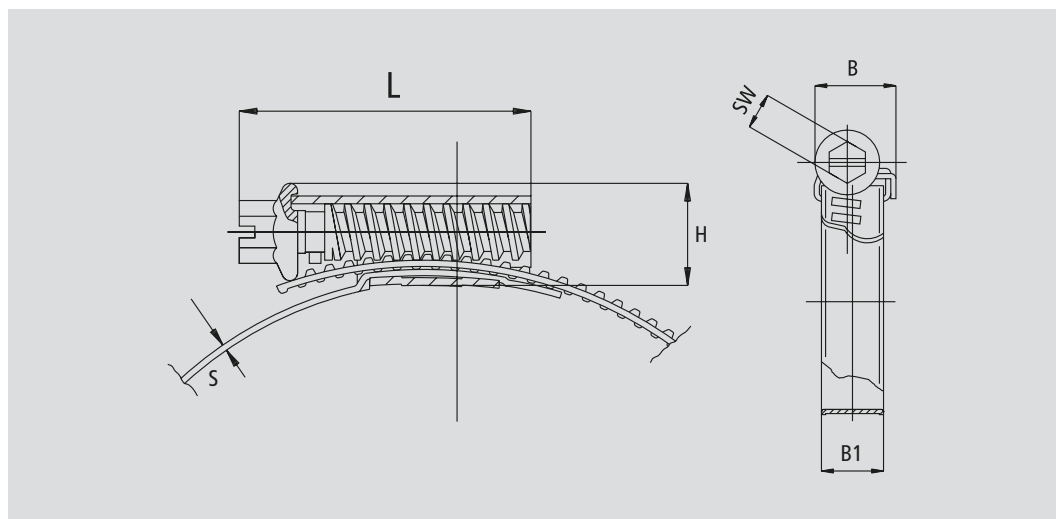
Norm	
DIN 3017	

High-Performance Hose Clips, band and lock stainless steel W 5

Range	torque				Band-width				Weight	Type No.	
	B	SW	Max. Nm.	L	H	B1	S	band-thickness			
8-12	5/18-1/2	10.5	6	1.5	17	9.5	8	0.7	100	6	HSE 12
8-16	5/18-5/8	14	7	2-2.5	21	14	9	0.8	100	11	HSE 16
12-20	1/2-3/4	14	7	2-2.5	24	14	9	0.8	100	13	HSE 20
16-25	5/8-1	14	7	3-3.5	24	14	9	0.8	100	14	HSE 25
20-32	3/4-1 1/4	14	7	3-3.5	24	14	9	0.8	100	15	HSE 32
25-40	1-1 5/8	14	7	3-3.5	26	14	9	0.8	50	18	HSE 40
32-50	1 1/4-2	14	7	3-3.5	26	14	9	0.8	50	18	HSE 50
40-60	1 5/8-2 3/8	14	7	3-3.5	26	14	9	1.0	25	20	HSE 60
50-70	2-2 3/4	14	7	3-3.5	26	14	9	1.0	25	21	HSE 70
60-80	2 3/8-3 1/8	14	7	3-3.5	26	14	9	1.0	25	23	HSE 80
70-90	2 3/4-3 1/2	14	7	3-3.5	26	14	9	1.0	25	25	HSE 90
80-100	3 1/8-4	14	7	3-3.5	26	14	9	1.0	10	28	HSE 100

Special hexagon screw driver of chromed steel with plastic handle

Version	SW	Weight	Type No.
Rigid	7	89	SR STARR
Flexible	7	134	SR FLEX.



Ferrules for Low Pressure Hose Lines

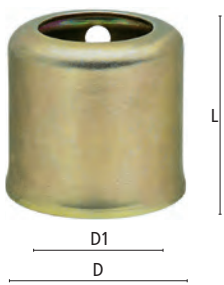
- Ferrules of redhotted steel, zinc-plated and yellow passivated
- Easy, fast and absolutely safe hose crimping with **LUDECKE** hand-operated assembly machine SPR 333 up to type LPH-23
- No risk of injury, closed and unremovable connection
- For crimping of various hoses and fittings for use with various media

Materials

- Body: redhotted steel, zinc-plated and yellow passivated

Max. Working Pressure									
PN 16 bar									
for hose									
D	DIN 20018	Water	PVC	L	D1	Assembly-M.	Weight	☐	Type No.
12.5				17	8.5	SPR 333	3	100	LPH-12,5
13.5			6x3	20	9.3	SPR 333	5	100	LPH-13,5
14.5	6x3.5			17	10	SPR 333	5	100	LPH-14,5
16			8x3	17	11.5	SPR 333	5	100	LPH-16
18	9x3.5		10x3	20	13.5	SPR 333	7	100	LPH-18
19			12x3	20	13.9	SPR 333	9	100	LPH-19
19.5				26	14.5	SPR 333	10	100	LPH-19,5
21				26	14.5	SPR 333	12	100	LPH-21
22				32	17	SPR 333	16	100	LPH-22
23		13x3		32	17	SPR 333	18	100	LPH-23
25	13x5			32	17		19	100	LPH-25
28	15x6			32	20.5		22	100	LPH-28
30.5		19x4		33	24.3		24	100	LPH-30
33	19x6			35	24.8		40	100	LPH-33
38		25x4.5		35	28		47	25	LPH-38
41	25x7			40	30		64	25	LPH-41

For higher Working Pressure we recommend hydraulic crimping with turned steel-ferrules type PH (☐ page 261) or on request.



Hand-Operated Assembly Machine for Low Pressure Ferrules

- Crimping machine for easy and safe assembly of low-pressure hoses from 3 to 20 mm Hose i.D.
- **Clean:** Exact assembling of fitting, hose and ferrule through centric crimping of the ferrule
- **Inexpensive:** Fast assembling at reasonable costs
- **Safe:** Improved safety through perfect fit
- **Elegant:** Reduced danger of injury
- With two crimping-jaw sets for crimping range from 3 to 20 mm and from 10 to 20 mm.
- **Flexible: For mobile use**

For hoses						
Hose o.D./						
Hose i.D.	Range	suitable ferrule	e.g. for fitting	☐	Weight	Type No.
3-20	10-22	LPH 12.5-23	Pneumatic-Connect., ES-Couplings	1	12.2	SPR-333





ALBA KRAPF Hose Reel Trolley Sets, Hose Reels, Wall Hose Reels and Wall Hose Holders

Long range water supply, secured and flexible stowed



ALBA KRAPF products offer high quality and lifelong guarantee. They are completely made of steel and UV resistant. Through environmentally friendly materials they may be classified as completely recyclable and thus, they make a valuable contribution to a sustainable production. The wide range of products ideally meets the needs of the private and professional field.



Quality Surface

- Best protection against corrosion due to zinc-plated surface
- Environmentally friendly galvanizing (chrome VI free according to ISO 9001)



High Stability

- Highest tilt firmness due to optimized balance point
- Steady and floor protecting overlasy



Perfect Balance

- Easy to drive as the weight lies on the axle
- Comfortable level of transportation: long, handy handle



Easy Assembly

- Simple assembling
- Demountable handle for a space-saving storage



Lifetime-Quality

- Construction completely made of steel
- UV resistant



Ecology

- Environmentally friendly materials
- Totally recyclable



High Waterflow

- High water passage, 1/2", 3/4", 1"
- Comfortable hose Connection (no buckling)



Quality Wheels

- Big, handy, easy to drive and lawn sparing tread wheels
- Resistant and reinforced



Wide Range of Wall Hose Reels

- Wall-mounting with continuous adjustment
- Swivelling for optimal application angle



First-Class Water fittings

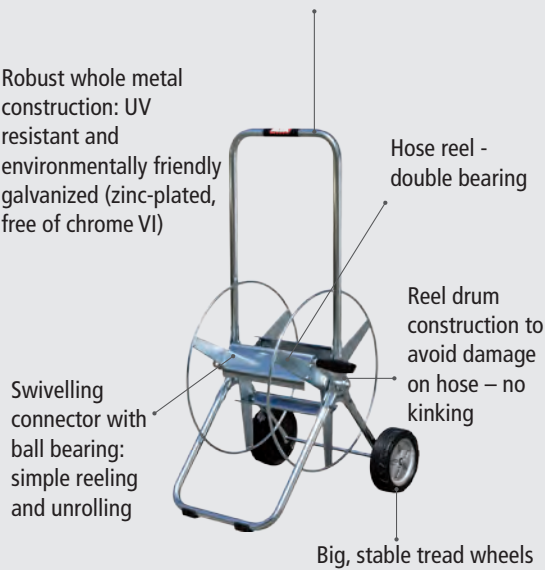
- A high-quality connection system compatible with the standard plug profile

Established since 1907
Reasonable details make the difference!
Delivery is effected in a 4-colour carton box, in 4 languages including technical data, user information and assembly instruction.
Spare parts list on request.

Hose Reels for private use:

Comfortable level of transportation: easy to drive thanks to a long and handy handle

Robust whole metal construction: UV resistant and environmentally friendly galvanized (zinc-plated, free of chrome VI)

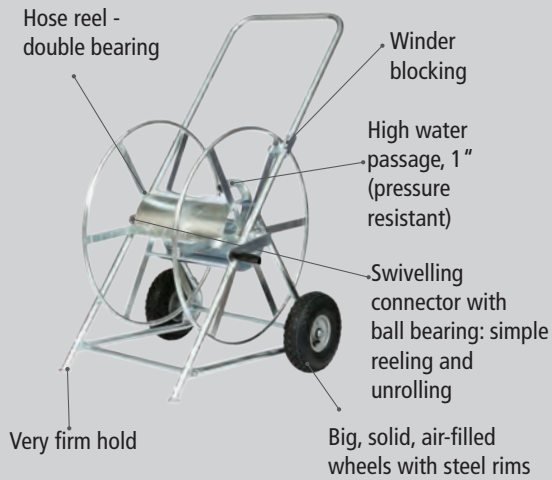


Hose Reel ALBA SILVER Series II

Light Hose Reel models are ideally suited for terraces and balconies as well as small and media gardens

Hose Reels for professional use:

Very robust whole metal construction: best rust protection due to hot galvanization, virtually indestructible



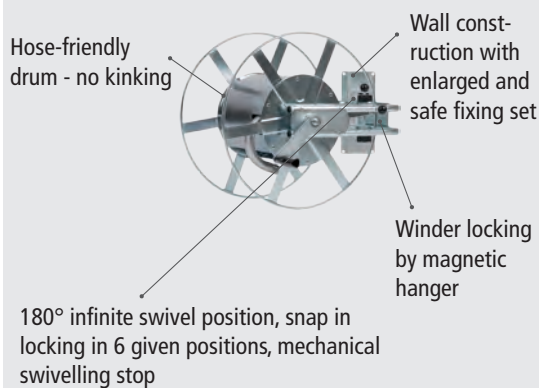
Hose Reel ALBA PROFI Series II NEW!

The stable whole metal construction is ideally suited for regular and demanding applications with high amount of water (e.g. road construction, military, gravel plants, railways, etc.)



Wall Hose Reels for professional and private use:

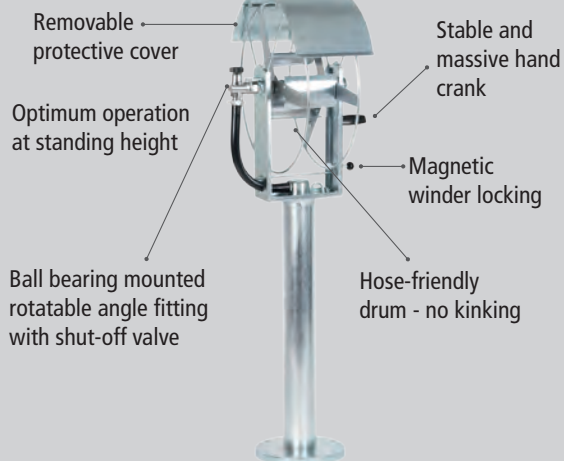
Whole metal construction: UV resistant and environmentally friendly galvanized (zinc-plated, free of chrome VI)



Wall Hose Reel ALBA STATUS Series III
(also available in Stainless steel)

Hose Reels for professional and private use:

Stable whole metal construction



Hose Reel (Post) TERRA



Hose Reel Trolley Sets

Our Recommendation: Exclusively Composed for you

We offer you complete hose reel trolley sets without any self-assembly. This means for you: Just order it, unpack it and start watering. You don't have to take care about any spare parts, but also receive everything in just one package.



Models:

ALBA ROYAL Series II
for frequent use in professional applications or bigger gardening sceneries

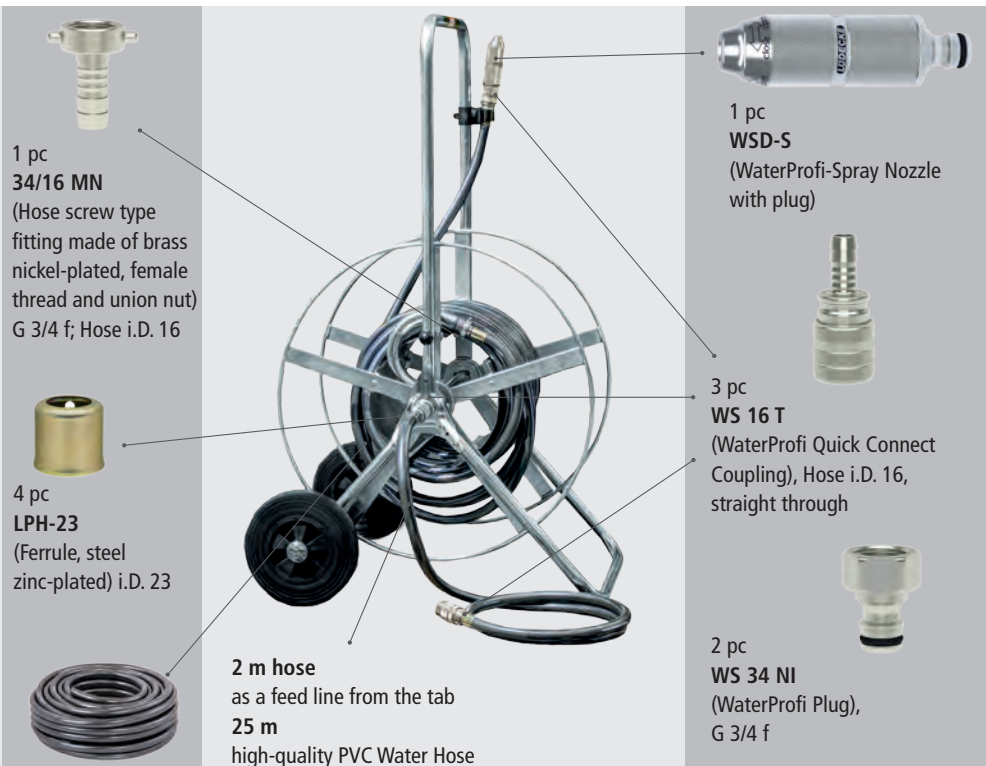
(© page 397)

ALBA STAR Series II
for demanding and daily use in professional applications, such as, plant nurseries, parks, sports grounds, swimming pools, industrial unit, workshops

(© page 398)

Contains of

- 1 Hose Reel
ALBA ROYAL Series II
- or
- 1 Hose Reel
ALBA STAR Series II



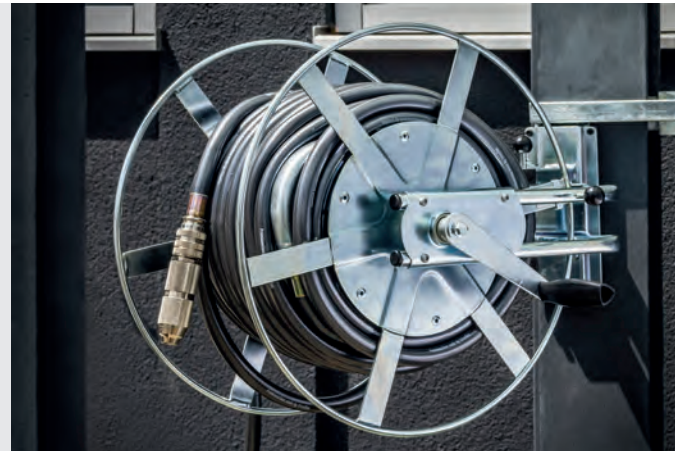
Max. Working Pressure	Max. Hose Length	
25 bar	25 m	1

Thread connection	Version	Type No.
G 3/4 m	Hose i.D. 15	ALBA STAR2 SET
G 3/4 m	Hose i.D. 15	ALBA ROYAL2 SET

Hose Reel Set for Wall Mounting

Our Recommendation: Exclusively Composed for you

You can also simple order hose reels for wall mounting in a set. Herefore we also compiled only the best products and guarantee an uncomplicated handling. Just oder it, unpack it and start watering.



Models:

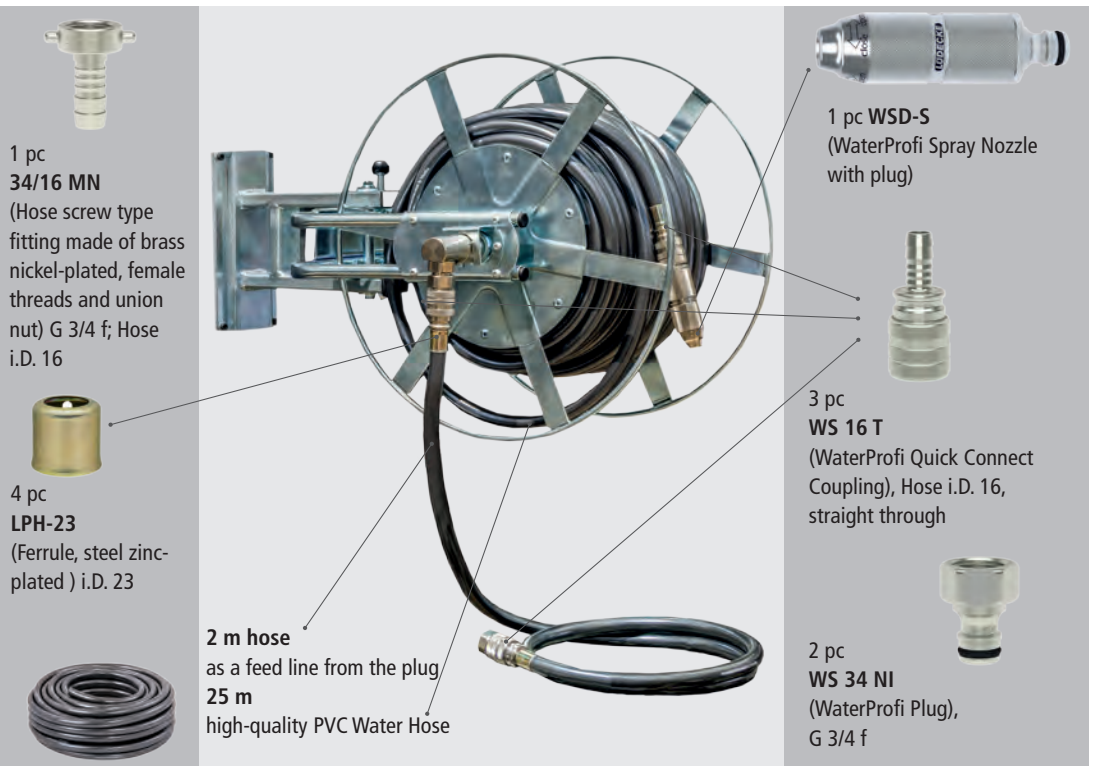
Alba STATUS Series III

for regular and demanding use in professional and non commercial applications

(© page 400)

Contains of

1 Wall Hose Reel
ALBA STATUS Series III



Max. Working Pressure	Max. Hose Length	⊕
25 bar	25 m	1

Thread connection	Version	Type No.
G 3/4 m	Hose i.D. 15	ALBASTATUS3 SET

Hose Reel ALBA IRON MAN Series II

Light Model for Non-Commercial Use in Small and Medium Gardens



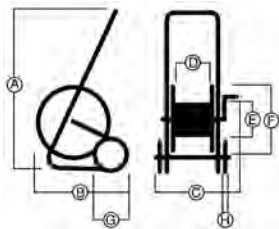
- Robust whole metal construction, side reel of sheet metal, UV resistant and environmentally friendly galvanized (zinc-plated, free of chrome VI)
- Assembly set: with manual, assembled in a few minutes
- Hose-friendly drum - no kinking
- Wide, solid tread wheels
- Hose reel - double bearing
- Swivelling connector with ball bearing: simple reeling and unrolling
- Comfortable level of transportation: long and practical handle, easy to roll
- Highest tilt firmness
- Without hose, pre-assembled in carton box

Materials:

- Hose reel: Steel galvanized zinc-plated (free of chrome VI)
- Wheels: Plastic
- Swivelling connector: Brass MS 58 nickel-plated

Max. Working Pressure	Temperature	Max. Hose Length	Media	
25 bar	up to + 100°C	1/2" (13 mm) = 100 m, 5/8" (16 mm) = 80 m, 3/4" (19 mm) = 50 m	Water	1

Thread connection	Version	Weight	Type No.
G 3/4 m	Hose i.D. 13 - Hose i.D. 16 - Hose i.D. 19	8.5 kg	ALBA IRON MAN2



Ⓐ Total height:	947 mm	Ⓔ Reel inside:	180 mm
Ⓑ Total length:	562 mm	Ⓣ Reel wheel:	458 mm
Ⓒ Total width:	530 mm	Ⓤ Wheel-∅ :	170 mm
Ⓓ Reel width:	256 mm	ⓖ Wheel width:	50 mm

Hose Reel ALBA SILVER Series II

Light Model for Non-Commercial Use in Small and Medium Gardens



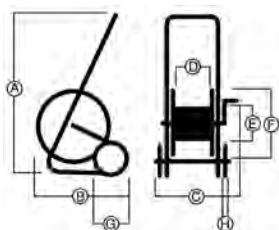
- Robust whole metal construction, UV resistant and environmentally friendly galvanized (zinc-plated, free of chrome VI)
- Hose friendly drum - no kinking
- High water flow capacity 3/4", durable and resistant
- Wide, solid tread wheels
- Hose reel - double bearing
- Swivelling connector with ball bearing: simple reeling and unrolling
- Comfortable level of transportation: long and practical handle, easy to roll
- Highest tilt firmness
- Without hose, pre-assembled in carton box

Materials:

- Hose reel: Steel galvanized zinc-plated (free of chrome VI)
- Wheels: Plastic
- Swivelling connector: Brass MS 58 nickel-plated

Max. Betriebsdruck	Temperature	Max. Hose Length	Media	
25 bar	up to + 100°C	1/2" (13 mm) = 100 m, 5/8" (16 mm) = 80 m, 3/4" (19 mm) = 50 m	Water	1

Thread connection	Version	Weight	Type No.
G 3/4 m	Hose i.D. 13 - Hose i.D. 16 - Hose i.D. 19	8.5 kg	ALBA SILVER 2



Ⓐ Total height:	947 mm	Ⓔ Reel inside:	180 mm
Ⓑ Total length:	562 mm	Ⓣ Reel wheel:	458 mm
Ⓒ Total width:	530 mm	Ⓤ Wheel-∅ :	170 mm
Ⓓ Reel width:	256 mm	ⓖ Wheel width:	50 mm

Hose Reel ALBA ROYAL Series II

For Regular and Demanding use in the Professional Sector
and for Private use in Larger Gardens



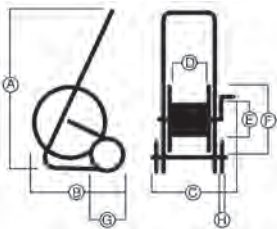
- Robust whole metal construction, UV resistant and environmentally friendly galvanized (zinc-plated, free of chrome VI)
- Hose friendly drum – no kinking
- High water flow capacity 3/4", durable, resistant
- Wide, solid tread wheels
- Hose reel - double bearing
- Swivelling connector with ball bearing: simple reeling and unrolling
- Comfortable level of transportation: long and practical handle, easy to roll
- Highest tilt firmness: wide wheel axle and long main pillars

Materials:

- Hose reel: Steel galvanized zinc-plated (free of chrome VI)
- Wheels: Plastic
- Swivelling connector: Brass MS 58 nickel-plated

Max. Working Pressure	Temperature	Max. Hose Length	Media	
25 bar	up to + 100°C	1/2" (13 mm) = 100 m, 5/8" (16 mm) = 80 m, 3/4" (19 mm) = 50 m	Water	1

Thread Connection	Version	Weight	Type No.
G 3/4 m	Hose i.D. 13 - Hose i.D. 16 - Hose i.D. 19	12 kg	ALBA ROYAL2



A Total height:	977 mm	E Reel inside:	229 mm
B Total length:	564 mm	F Reel wheel:	508 mm
C Total width:	533 mm	G Wheel-∅:	160 mm
D Reel width:	245 mm	H Wheel width:	41 mm



Hose Reel ALBA FOREVER

For Regular and Demanding use in the Professional Sector
and for Private use in Larger Gardens



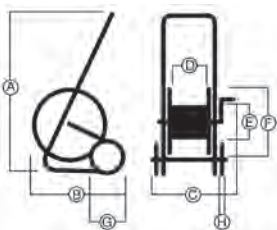
- Robust whole metal construction, UV resistant and environmentally friendly galvanized (zinc-plated, free of chrome VI)
- Hose friendly drum – no kinking
- High water flow capacity 3/4" (resistant)
- Wide, solid rubber wheels with large diameters
- Hose reel - double bearing
- Swivelling connector with ball bearing: simple reeling and unrolling
- Comfortable level of transportation: long and practical handle, easy to roll
- Highest tilt firmness, stable construction for perfect stand
- Additional slip resistant stoppers on trolley frame

Materials:

- Hose reel: Steel galvanized zinc-plated (free of chrome VI)
- Wheels: Solid rubber
- Swivelling connector: Brass MS 58 nickel-plated

Max. Working Pressure	Temperature	Max. Hose Length	Media	
25 bar	up to + 100°C	1/2" (13 mm) = 70 m, 5/8" (16 mm) = 60 m, 3/4" (19 mm) = 40 m	Water	1

Thread Connection	Version	Weight	Type No.
G 3/4 m	Hose i.D. 13 - Hose i.D. 16 - Hose i.D. 19	12.3 kg	ALBA FOREVER



A Total height:	996 mm	E Reel inside:	229 mm
B Total length:	566 mm	F Reel wheel:	458 mm
C Total width:	528 mm	G Wheel-∅:	200 mm
D Reel width:	243.5 mm	H Wheel width:	46 mm



Hose Reel ALBA STAR Series II

For a Regular Demanding Daily Use and Need of Long Length Hose in the Professional Sector, i.e. in Plant Nurseries, Parks, Sports Grounds, Swimming Pools, Industrial Units, Workshops



Also in
Stainless Steel
ALBA STAR INOX
Series II

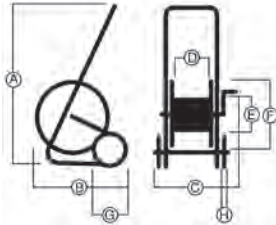
- Robust whole metal construction, UV resistant and environmentally friendly galvanized (zinc plated free of chrome VI)
- Hose friendly drum - no kinking
- High water flow capacity 3/4" (resistant)
- Wide, solid rubber wheels
- Hose reel - double bearing
- Without hose, pre-assembled in carton box
- Additional slip resistant stoppers on trolley frame
- Swivelling connector with ball bearing: simple reeling and unrolling
- Comfortable level of transportation: long and practical handle, easy to roll
- Highest tilt firmness

Materials:

- Hose reel: Steel galvanized zinc-plated (free of chrome VI)
- Wheels: solid rubber
- Swivelling connector: Brass MS 58 nickel-plated, ball bearing mounted

Max. Working Pressure	Temperature	Max. Hose Length	Media	
25 bar	up to + 100°C	1/2" (13 mm) = 120 m, 5/8" (16 mm) = 100 m, 3/4" (19 mm) = 80 m, 1" (25 mm) = 50 m	Water	1

Thread Connection	Version	Weight	Type No.
G 3/4 m	Hose i.D. 13 - Hose i.D. 16 - Hose i.D. 19 - Hose i.D. 25	14 kg	ALBA STAR 2



Ⓐ Total height:	1021 mm	Ⓔ Reel inside:	226 mm
Ⓑ Total length:	605 mm	Ⓣ Reel wheel:	555 mm
Ⓒ Total width:	603 mm	Ⓢ Wheel-∅:	200 mm
Ⓓ Reel width:	296 mm	Ⓤ Wheel width:	46 mm

Hose Reel ALBA STAR INOX Series II

For the Food Industry: Ideal for Cheese Dairies, Creameries, Butcheries, Bakeries, Medical Laboratories, Swimming Pools etc.



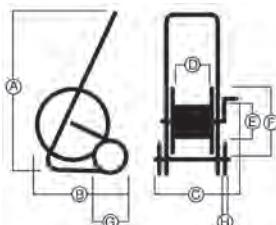
- Totally made of electropolished stainless steel
- Hose friendly drum - no kinking
- High water flow capacity 3/4" (resistant)
- Wide, solid rubber wheels (abrasion-proof)
- Hose reel - double bearing
- Swivelling connector with ball bearing: simple reeling and unrolling
- Comfortable level of transportation: long and practical handle, easy to roll
- Highest tilt firmness
- Additional slip resistant stoppers on trolley frame
- Without hose, pre-assembled in carton box

Materials:

- Hose reel: Stainless steel electropolished
- Wheels: Solid rubber
- Swivelling connector: Brass Cuphin

Max. Working Pressure	Temperature	Max. Hose Length	Media	
25 bar	up to + 100°C	1/2" (13 mm) = 120 m, 5/8" (16 mm) = 100 m, 3/4" (19 mm) = 80 m, 1" (25 mm) = 50 m	Water	1

Thread Connection	Version	Weight	Type No.
G 3/4 m	Hose i.D. 13 - Hose i.D. 16 - Hose i.D. 19 - Hose i.D. 25	14 kg	ALBA STAR IN2



Ⓐ Total height:	1030 mm	Ⓔ Reel inside:	229 mm
Ⓑ Total length:	609.5 mm	Ⓣ Reel wheel:	555 mm
Ⓒ Total width:	608 mm	Ⓢ Wheel-∅:	200 mm
Ⓓ Reel width:	296 mm	Ⓤ Wheel width:	46 mm

Hose Reel ALBA PROFI Series II

For Industry and Trades. Ideal for Road Construction, Military, Gravel Plants, Railways, Docks, Fisheries etc.

- Very robust whole metal construction, best rust protection due to hot galvanisation, virtually indestructible
- Steady tubular construction
- Hose friendly drum - no kinking
- High water flow capacity 3/4" (resistant)
- Big, solid, air-filled wheels with steel rims
- Hose reel - double bearing
- Swivelling connector with ball bearing: simple reeling and unrolling
- Winder blocking
- New pedestal construction for a maximum of stability (stay stable during floor sliding)
- Highest tilt firmness as well as comfortable level of transportation (long and practical handle, optimized room for the feet, easy to roll)

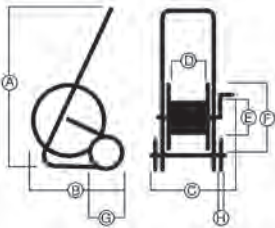


Materials

- Hose reel, rims: Steel hot galvanized (free of chrome VI)
- Wheels: Rubber wheels PAK conform
- Swivelling connector: Brass MS 58 nickel-plated

Max. Working Pressure	Temperature	Max. Hose Length	Media	
25 bar	up to + 100°C	5/8" (16 mm) = 160 m, 3/4" (19 mm) = 130 m, 1" (25 mm) = 90 m	Water	1

Thread Connection	Version	Weight	Type No.
G 1 m	Hose i.D. 16 - Hose i.D. 19 - Hose i.D. 25	28 kg	ALBA PROFI2



Ⓐ Total height:	1148 mm	Ⓔ Reel inside:	224 mm
Ⓑ Total length:	822 mm	Ⓕ Reel wheel:	680 mm
Ⓒ Total width:	665 mm	Ⓖ Wheel-∅:	260 mm
Ⓓ Reel width:	344 mm	Ⓗ Wheel width:	80 mm



Hose Reel ALBA SUPER PROFI Series II

For Industry and Trades. Ideal for Road Construction, Military, Gravel Plants, Railways, Docks, Fisheries etc.

- Very robust whole metal construction, best rust protection due to hot galvanisation, virtually indestructible
- Steady tubular construction
- Hose friendly drum - no kinking
- High water flow capacity 1" (resistant)
- Big, solid, air-filled wheels with steel rims
- Hose reel - double bearing
- Swivelling connector with ball bearing: simple reeling and unrolling
- Winder blocking
- New pedestal construction for a maximum of stability (stay stable during floor sliding)
- Highest tilt firmness as well as comfortable level of transportation (long and practical handle, optimized room for the feet, easy to roll)

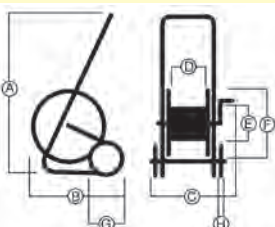


Materials

- Hose reel, rims: Steel hot galvanized (free of chrome VI)
- Wheels: Rubber wheels PAK conform
- Swivelling connector: Brass MS 58 nickel-plated, ball bearing mounted

Max. Working Pressure	Temperature	Max. Hose Length	Media	
25 bar	up to + 100°C	5/8" (16 mm) = 300 m, 3/4" (19 mm) = 190 m, 1" (25 mm) = 110 m	Water	1

Thread Connection	Version	Weight	Type No.
G 1 m	Hose i.D. 16 - Hose i.D. 19 - Hose i.D. 25	30 kg	ALBASUPERPROFI2



Ⓐ Total height:	1148 mm	Ⓔ Reel inside:	224 mm
Ⓑ Total length:	822 mm	Ⓕ Reel wheel:	680 mm
Ⓒ Total width:	767 mm	Ⓖ Wheel-∅:	260 mm
Ⓓ Reel width:	444 mm	Ⓗ Wheel width:	80 mm



Wall Hose Reel ALBA STATUS Series III

For Regular and Demanding Use in the Professional and the Privacy Applications

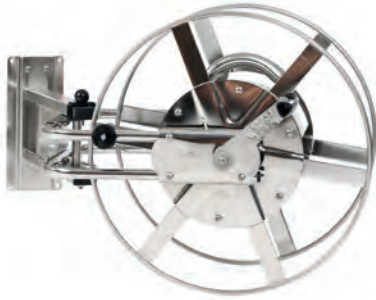


Also in
Stainless Steel
ALBA STATUS INOX
Series III

- Robust whole metal construction, UV resistant and environmentally friendly galvanized (zinc-plated, free of chrome VI)
- Hose friendly drum - no kinking
- Central Waterflow
- Wall construction with enlarged and safe fixing set as well as robust double pipe-support
- Optimal overall size for a small wall distance
- Winder locking by magnetic hanger
- 180° infinite swivel position, snap in locking in 6 given positions, prevents collision with the wall
- Rugged and massive hand crank with ergonomic handle for a safe and easy hose reeling
- Hose reel - double bearing
- Without hose, pre-assembled in carton box

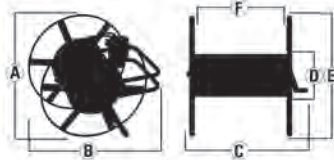
Materials:

- Hose reel: Steel galvanized (zinc-plated, free of chrome VI)
- Swivelling connector: Brass MS 58 nickel-plated, ball bearing mounted



Max. Working Pressure	Temperature	Max. Hose Length	Media	☎
25 bar	up to + 100°C	1/2" (13 mm) = 70 m, 5/8" (16 mm) = 60 m, 3/4" (19 mm) = 40 m	Water	1

Thread Connection	Version	Weight	Type No.
G 3/4 m	Hose i.D. 13 - Hose i.D. 16 - Hose i.D. 19	11.2 kg	ALBA STATUS 3



- Ⓐ Total height: 458 mm
- Ⓑ Total length: 554.5 mm
- Ⓒ Total width: 556 mm
- Ⓓ Reel width: 229 mm
- Ⓔ Reel wheel: 458 mm
- Ⓕ Wheel width: 243.5 mm

Wall Hose Reel ALBA STATUS INOX Series III

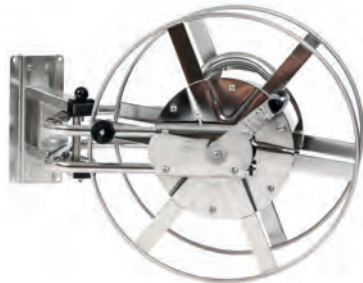
For the Food Industry: Ideal for Cheese Dairies, Creameries, Butcheries, Bakeries, Medical Laboratories, Swimming Pools etc.



- Completely made of electropolished stainless steel
- Hose friendly drum - no kinking
- Central Waterflow
- Wall construction with enlarged and safe fixing set as well as robust double pipe-support
- Optimal overall size for a small wall distance
- 180° infinite swivel position, snap in locking in 6 given positions, prevents collision with the wall
- Rugged and massive hand crank with ergonomic handle for a safe and easy hose reeling
- Hose reel double bearing
- Without hose, pre-assembled in carton box

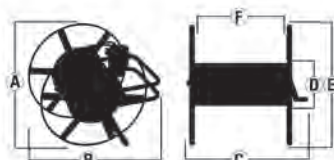
Materials:

- Wall Hose Reel: Stainless steel electropolished
- Swivelling connector: Brass Cuphin



Max. Working Pressure	Temperature	Max. Hose Length	Media	☎
25 bar	up to + 100°C	1/2" (13 mm) = 70 m, 5/8" (16 mm) = 60 m, 3/4" (19 mm) = 40 m	Water	1

Thread Connection	Version	Weight	Type No.
G 3/4 m	Hose i.D. 13 - Hose i.D. 16 - Hose i.D. 19	11.2 kg	ALBA STATUS IN3



- Ⓐ Total height: 458 mm
- Ⓑ Total length: 554.5 mm
- Ⓒ Total width: 556 mm
- Ⓓ Reel width: 229 mm
- Ⓔ Reel wheel: 458 mm
- Ⓕ Wheel width: 243.5 mm

Hose Reel (Post) TERRA

A Steady Solution for the Professional Sector and Private Use

- Robust whole metal construction, zinc-plated
- Drum design to avoid damage on hose with 45° hose connection and hose protection – no kinking
- Bearing based elbow fitting with tab
- Solid and robust handle with ergonomical designed grip: simple reeling and unrolling
- Magnetic winder locking and swivel lock
- Removable protection cover, ergonomical handling to be operated in hip height as well as central waterflow
- Not supplied with hose

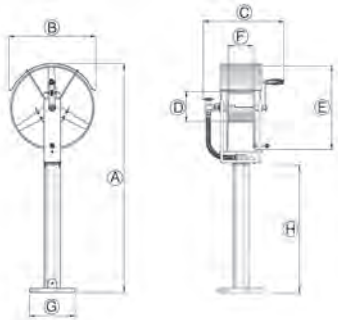
Materials

- Hose reel: Steel galvanized zinc-plated (free of chrome VI)
- Post: Steel hot galvanized (free of chrome VI)
- Swivelling connector: Brass MS 58 nickel-plated



Max. Working Pressure	Temperature	Max. Hose Length	Media	☎
25 bar	up to + 100°C	1/2" (13 mm) = 50 m, 5/8" (16 mm) = 40 m	Water	1

Thread Connection	Version	Weight	Type No.
G 3/4 m	Hose i.D. 13 - Hose i.D. 16	14.6 kg	ALBA TERRA



Ⓐ Total height:	1253 mm	Ⓔ Reel wheel	458 mm
Ⓑ Total length:	476 mm	Ⓕ Wheel width:	140 mm
Ⓒ Total width:	443 mm	Ⓖ Base:	250 mm
Ⓓ Reel width:	180 mm	Ⓗ Base height:	710 mm

Wall Hose Holder ALBA MIDI

For all Sectors

- Robust whole metal construction, UV resistant and environmentally friendly galvanized (zinc-plate, free of chrome VI)
- Statically solid
- Light construction
- Hose conserving, no hose buckling

Materials:

- Wall Hose Holder: Steel galvanized zinc-plated (free of chrome VI)



Also in
Stainless Steel
ALBA MIDI INOX



Temperature	Max. Hose Length	Media	☎
up to + 100°C	Mounting height 1.35 m: 1/2" (13 mm) = 140 m, 5/8" (16 mm) = 123 m, 3/4" (19 mm) = 70 m, 1" (25 mm) = 45 m hose	Water	1

Version	B	H	T	Weight	Type No.
Hose i.D. 13 - Hose i.D. 16 -	222	250	166	1 kg	ALBA MIDI
Hose i.D. 19 - Hose i.D. 25					



Wall Hose Holder ALBA MIDI INOX

For the Food Industry



- Totally made of electropolished stainless steel
- Statically solid
- Light construction
- Hose conserving, no hose buckling

Materials

- Wall Hose Holder: Stainless Steel 1.4301



Temperature	Max. Hose Length	Media	
up to + 100°C	Mounting height 1.35 m: 1/2" (13 mm) = 140 m, 5/8" (16 mm) = 123 m, 3/4" (19 mm) = 70 m, 1" (25 mm) = 45 m hose	Water	1

Version	B	H	T	Weight	Type No.
Hose i.D. 13 - Hose i.D. 16 - Hose i.D. 19 - Hose i.D. 25	222	250	166	0.9 kg	ALBA MIDI INOX



Wall Hose Holder ALBA BIG

For all Sectors



- Whole metal construction, best rust protection due to hot galvanisation, virtually indestructible
- Very robust construction
- Statically solid
- Hose conserving, no hose buckling

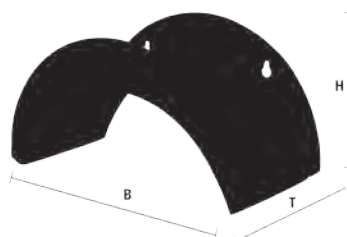
Materials:

- Wall Hose Holder: Steel hot galvanized (free of chrome VI)



Temperature	Max. Hose Length	Media	
up to + 100°C	Mountage hight 1.35 m: 1/2" (13 mm) = 89 m, 5/8" (16 mm) = 79 m, 3/4" (19 mm) = 46 m, 1" (25 mm) = 28 m hose	Water	1

Version	B	H	T	Weight	Type No.
Hose i.D. 13 - Hose i.D. 16 - Hose i.D. 19 - Hose i.D. 25	326	180	170	1.4 kg	ALBA BIG



Water Tap Hose Holder ALBA bOy

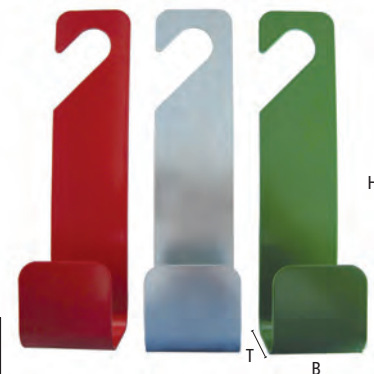
For all Sectors

- Available in zinc-plated steel resp. in red and green (2x) powder-coated
- Practical, without assembly
- Keeps the hose at the water tap
- High load capacity and space for up to 25 m of garden hose



Materials:

- Hose holder: Steel zinc-plated / Steel zinc-plated and powder coated (chromo VI free)



Temperature	Max. Hose Length	Media	
up to +100°C	1/2" (13 mm) = 25 m, 5/8" (16 mm) = 20 m, 3/4" (19 mm) = 15 m	Water	1

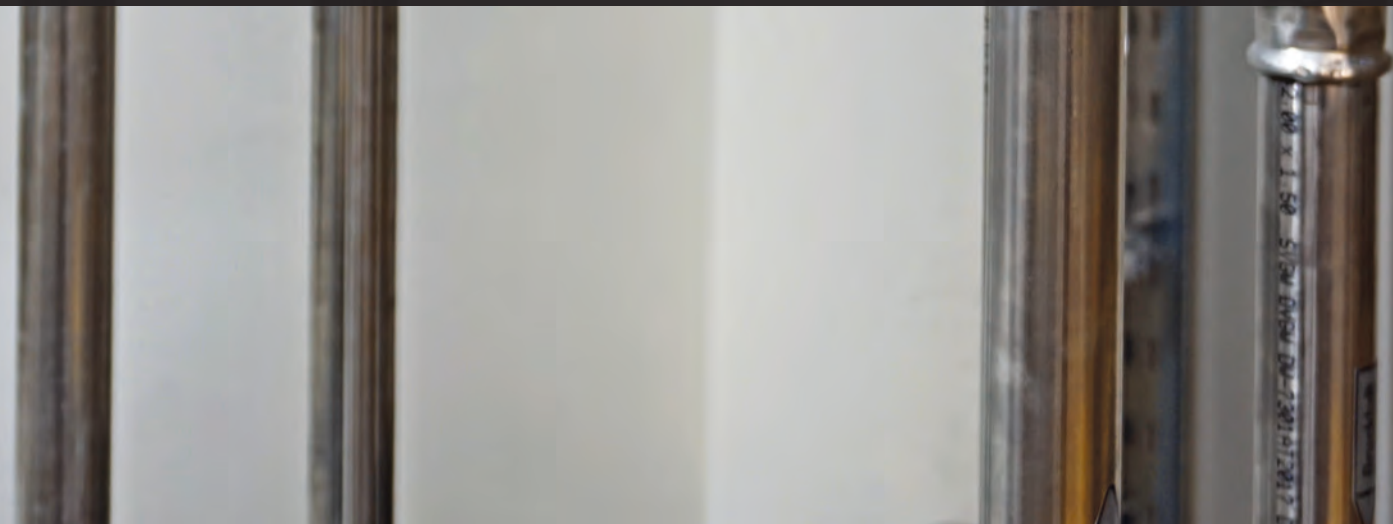
Version	B	H	T	Colour	Weight	Type No.
Hose i.D. 13 - Hose i.D. 16 - Hose i.D. 19	80	300	100	Silver	0.667 kg	ALBA BOY-S
Hose i.D. 13 - Hose i.D. 16 - Hose i.D. 19	80	300	100	Red	0.667 kg	ALBA BOY-R
Hose i.D. 13 - Hose i.D. 16 - Hose i.D. 19	80	300	100	Green	0.667 kg	ALBA BOY-G

Hose Capacities Overview

	0 m	20 m	40 m	60 m	80 m	100 m	120 m	140 m	160 m
ALBA IRON MAN Series II	0 3/4" = 19 mm	0 5/8" = 16 mm	0 1/2" = 13 mm						
ALBA SILVER Series II	0 3/4" = 19 mm	0 5/8" = 16 mm	0 1/2" = 13 mm						
ALBA ROYAL Series II	0 3/4" = 19 mm	0 5/8" = 16 mm	0 1/2" = 13 mm						
ALBA FOREVER	0 3/4" = 19 mm	0 5/8" = 16 mm	0 1/2" = 13 mm						
ALBA STAR Series II	0 1" = 25 mm	0 3/4" = 19 mm	0 5/8" = 16 mm	0 1/2" = 13 mm					
ALBA STAR INOX Series II	0 1" = 25 mm	0 3/4" = 19 mm	0 5/8" = 16 mm	0 1/2" = 13 mm					
ALBA PROFI Series II	0 1" = 25 mm	0 3/4" = 19 mm	0 5/8" = 16 mm						Actual length = 190 m Actual length = 300 m
ALBA SUPER PROFI Series II	0 1" = 25 mm	0 3/4" = 19 mm	0 5/8" = 16 mm						
ALBA STATUS Series III	0 3/4" = 19 mm	0 5/8" = 16 mm	0 1/2" = 13 mm						
ALBA STATUS INOX Series III	0 3/4" = 19 mm	0 5/8" = 16 mm	0 1/2" = 13 mm						
TERRA	0 5/8" = 16 mm	0 1/2" = 13 mm							
ALBA MIDI	0 1" = 25 mm	0 3/4" = 19 mm	0 5/8" = 16 mm	0 1/2" = 13 mm					
ALBA MIDI INOX	0 1" = 25 mm	0 3/4" = 19 mm	0 5/8" = 16 mm	0 1/2" = 13 mm					
ALBA BIG	0 1" = 25 mm	0 3/4" = 19 mm	0 5/8" = 16 mm	0 1/2" = 13 mm					
ALBA bOy	0 3/4" = 19 mm	0 5/8" = 16 mm	0 1/2" = 13 mm						



Accessories





Ball Valves



Hose Clamps, Hose Clips
and Ferrules



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Hose Clamps, Hose Clips and Ferrules

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Ball Valves



The **LUDECKE** Ball Valves serve as shut-off fittings in pipe systems.






The operation is simple:

In the fitting a ball serves as shut-off device, which opens and closes the fitting with a 90 degrees rotation. Low loss of flow can be reached because of the full passage (which means the inner diameter of the bore in the ball is equal to the inner diameter of the connected hose line).

They seal through special sealing rings, which are fixed in between the ball and the housing.

Wide Selection

At **LUDECKE** you find the perfect ball valve for a large number of application areas

	Ball Valves - Sturdy Version	Ball Valves - Light Version	Double Ball Valves and Airhammer Ball Valves	Three Way Ball Valves	Hexagon Ball Valves
					
Body:	Brass CW617N	Forged brass nickel-pl.	Brass CW617N	Brass MS 58 nickel-pl.	Brass MS 58 nickel-pl.
Sockets:	Brass CW617N	Forged brass nickel-pl.	Brass CW617N	-	-
Spindle and nut:	Brass MS 58 nickel-pl.	Brass MS 58 nickel-pl.	Brass MS 58 plain	-	-
Ball:	Brass MS 58 chromed	Brass MS 58 chromed	Brass MS 58 chromed	Brass hardchrome-pl.	Brass MS 58 chromed
Ball seals:	PTFE	PTFE	PTFE glass fiber reinf.	PTFE	PTFE
Spindle seals:	FKM	FKM	Buna N	PTFE	-
Handle:	Steel red lacquered	Steel zinc-plated coated with red PV see diagram	Steel red lacquered	Aluminium	Plastic
Max. Working Pressure:	PN 35 bar		PN 35 bar	PN 16 - 40 bar	PN 10 bar
Temperature:	-15°C - + 100°C	-15°C - + 120°C	-15°C - + 100°C	-15°C - + 100°C	-10°C - + 90°C
Thread:	DIN 2999	ISO 228	ISO 228	ISO 228	ISO 228
Page:	408	408	409	410	411

Ball Valves

Sturdy Version made of Brass Nickel-Plated

- High-quality ball valves for air, water, paint, solvents etc.
- Maintenance-free operation, long-living, sturdy and reliable, easy switching with full free passage, tested of tightness
- **For Industry, Construction and Civil Installations**

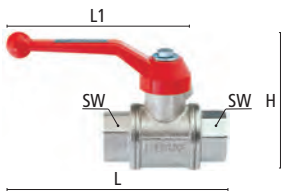
Materials

- Body and Sockets: Brass CW617N sandblasted and nickel-plated
- Spindle and Nut: Brass MS 58 nickel-plated
- Ball: Brass MS 58 chromed
- Ball seals: PTFE
- Spindle seals: FKM
- Handle: Steel red lacquered

Max. Working Pressure	Temperature	Thread	Media	
PN 35 bar	-15°C – +100°C	DIN 2999	Various	1

Ball Valves with female thread DIN 2999

Thread connection	L	SW	H	L1	Passage	Weight	Type No.
2 x R 1/4 f	50	25	78	95	8	296	KM 14 T
2 x R 3/8 f	60	25	78	95	10	302	KM 38 T
2 x R 1/2 f	75	26	82	95	15	390	KM 12 T
2 x R 3/4 f	80	32	90	104	20	682	KM 34 T
2 x R 1 f	90	39	97	104	25	876	KM 10 T
2 x R 2 f	140	70	170	178	50	3700	KM 20 T



Ball Valves

Light Version made of Brass Nickel-Plated

- Ball Valves with full passage and smaller sizes
- **For Construction, Industry, Craftmanship, Agriculture or Civil Installations**

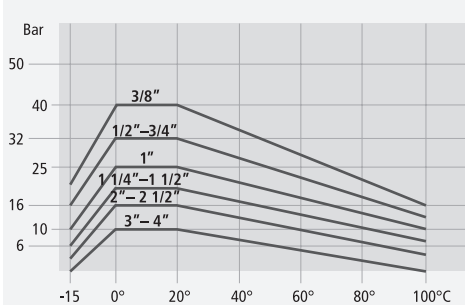
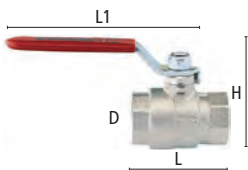
Materials

- Body and Sockets: Forged brass nickel-plated
- Spindle and Nut: Brass MS 58 nickel-plated
- Ball: Brass MS 58 chromed
- Ball seals: PTFE
- Spindle seals: FKM
- Handle: Steel zinc-plated and coated with red PVC

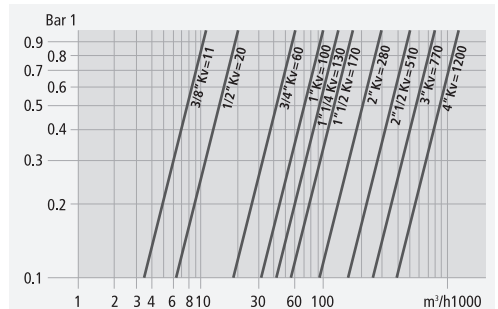
Max. Working Pressure	Temperature	Thread	Passage	Pressure drop	Media	
⊕ Diagramm	-15°C – +120°C	ISO 228	⊕ Diagramm	⊕ Diagramm	Various	1

Ball Valves with female thread ISO 228

Thread connection	L	H	D	L1	Passage	Weight	Type No.
2 x G 1/4 f	37	41	23	85	8	114	K 14 K
2 x G 3/8 f	42	37	24	85	10	132	K 38 K
2 x G 1/2 f	50	40	30	85	15	180	K 12 K
2 x G 3/4 f	58	48	38	105	20	306	K 34 K
2 x G 1 f	68	52	46	105	25	470	K 10 K
2 x G 1 1/4 f	80	63	58	130	32	813	K 54 K
2 x G 1 1/2 f	93	69	70	130	40	1262	K 15 K
2 x G 2 f	110	83	86	165	50	2100	K 20 K
2 x G 2 1/2 f	133	116	111	260	65	3799	K 25 K
2 x G 3 f	156	127	135	260	80	5625	K 30 K



Pressure and temperature diagram
For each ball valve, the nominal pressure PN depends on the type size and the temperature or vice versa.



Port capacity and pressure drop diagram
The Kv is the index port capacity, expressed in cubic meters per hour, causing a pressure drop of 1 bar with water at 15°C.

Double Ball Valves and Airhammer Ball Valves

Sturdy Version made of Brass Plain

- High quality, maintenance free, extremely robust valves made of forging brass
- With lever stop and ventilation, on request also without ventilation
- For compressed air in construction, on compressors and airhammers in the industry

Materials

- Body and Sockets: Brass CW617N
- Spindle and Nut: Brass MS 58 plain
- Ball: Brass MS 58 chromed
- Ball seals: PTFE glass fiber reinforced
- Spindle seals: Buna N
- Handle: Steel red lacquered

Max. Working Pressure	Temperature	Thread	Media	
PN 35 bar	-15°C – +100°C	ISO 228	Compressed air	1

Double Ball Valves

Connection*	Thread connection**	L	SW	H	Passage	Weight	Type No.
2 x G 3/4 m	G 1 f	115	41	105	13	1039	DKH 10
2 x KIGO 34 claw coupling	G 1 f	170	41	130	13	1350	DKH 10 G
2 x KIM 34 claw coupling	G 1 f	170	41	130	13	1435	DKH 10 M

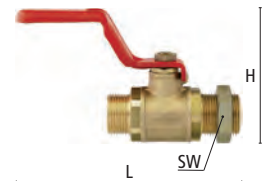
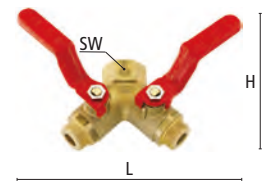
Airhammer Ball Valves, inlet thread with lock nut SW 32, outlet with inside cone 1:4

Connection*	Thread connection**	L	SW	H	Passage	Weight	Type No.
G 3/4 m	G 3/4 m	81	32	82	13	491	BKH 34
KIM 34 claw coupling	G 3/4 m	120	32	82	13	684	BKH 34 M

- On request we produce valves according to your drawings or samples with special connections and seals.
- Also available with T-Handle up to DN 25 e.g. KM 34 TBG
- Please order ball valves used in inspected plants separately, e.g. KM 12 T - AD (after TRB 404)

*Outlet

**Inlet



Three Way Ball Valves

- Robust ball valve made of brass nickel-plated
- For junctions or alternatively switching of air or water lines in industry, construction or civil applications

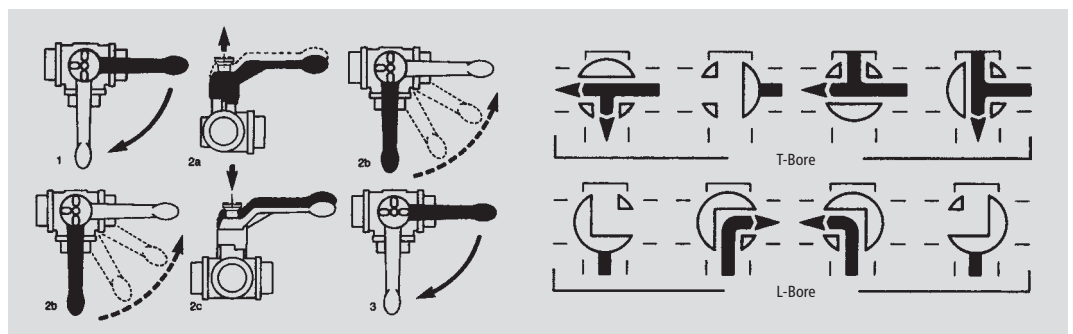
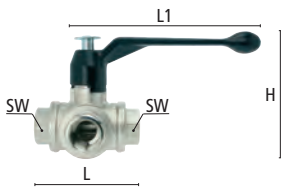
Materials

- Body: Brass MS 58 nickel-plated
- Ball: Brass hard chromed
- Ball seals: PTFE
- Spindle seals: PTFE
- Handle: Aluminium

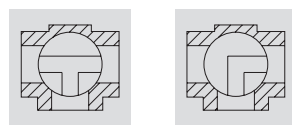
Max. Working Pressure	Temperature	Thread	Media	
PN 16 - 40 bar	-15°C – +100°C	ISO 228	Air / Water	1

Three way ball valves with 3 x female thread

Thread connect.	L	SW	H	L1	Passage	Max. Working Pr.	Weight	Type No./T	Weight	Type No./L
3 x G 1/4 f	71	27	96	130	10	40	713	DWK 14 T	679	DWK 14 L
3 x G 3/8 f	71	27	96	130	13	40	662	DWK 38 T	643	DWK 38 L
3 x G 1/2 f	80	27	96	130	13	40	653	DWK 12 T	637	DWK 12 L
3 x G 3/4 f	96	33	113	160	18	40	1090	DWK 34 T	1100	DWK 34 L
3 x G 1 f	113	40	122	160	23	25	1695	DWK 10 T	1710	DWK 10 L
3 x G 1 1/4 f	130	50	144	195	29	16	2680	DWK 54 T	2660	DWK 54 L
3 x G 1 1/2 f	147	57	154	195	35	16	3660	DWK 15 T	3710	DWK 15 L
3 x G 2 f	169	70	176	235	44	16	5820	DWK 20 T	5880	DWK 20 L



The flow direction can be identified on the marking of the circuit diagram. Position 1 and 3: Switching with ball rotation. Position 2a - 2b - 2c: Switching without ball rotation.



T L
Available with T or L-bore,
please state when ordering

Hexagon Ball Valves

- Miniature ball valves made of brass, nickel-plated
- For pneumatic or water installations in industry, construction or civil applications

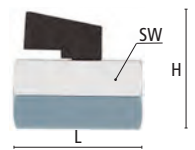
Materials

- Body: Brass MS 58 nickel-plated
- Ball: Brass MS 58 chrome-plated
- Ball seals: PTFE
- Handle: Plastic

Max. Working Pressure	Temperature	Thread	Media	
PN 10 bar	-10°C – +90°C	ISO 228	Air / Water	10

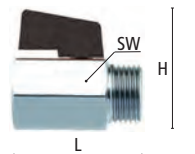
Hexagon Ball Valves with 2 x female thread

Thread connection	L	SW	H	Passage	Weight	Type No.
2 x G 1/4 f	36	19	38	5.5	71	KM 14 TS
2 x G 3/8 f	41	21	38	8	86	KM 38 TS
2 x G 1/2 f	48	25	42	10	137	KM 12 TS



Hexagon Ball Valves with female/male thread

Thread connection	L	SW	H	Passage	Weight	Type No.
G 1/4 m - G 1/4 f	36	19	38	5.5	61	KMZ 14 TS
G 3/8 m - G 3/8 f	41	21	38	8	83	KMZ 38 TS
G 1/2 m - G 1/2 f	48	25	42	10	130	KMZ 12 TS





Hose Clamps, Hose Clips and Ferrules








For hose assembly of fittings different assembly methods from strong clamps to light clips or ferrules can be used subject to application, media, pressure or hose material.

Selection Criterias are:

- Safety of the connection
- Removable or non-removable
- Quickness
- Necessary devices (z.B. crimping machine, pincer, screwdriver)
- Clean and injury risk free (e.g. by outstanding screws)

Wide Range

At **LUDECKE** you find the perfect assembly method for a large number of application areas

	Hose Clamps - Standard Version	Hose Clamps - US Version	Double-Ear Hose Clips	High-Performance Hose Clips	Heavy Duty Clamps	Ferrules for Low Pressure
						
Clamps:	Malleable iron zinc-pl. and yellow pas./ Stainl. steel 1.4401	Malleable iron zinc-plated and yellow passivated	Unbreakable special reliable. steel zinc-pl. & blue chromated	-	-	-
Spacers:	Malleable iron zinc-pl. and yellow pas./ Stainl. steel 1.4401	-	-	-	-	-
Screws:	Steel zinc-plated/ Stainless steel A4-70	Steel zinc-plated	-	Steel W1 zinc-pl. and thick layer passiv./ Stainless steel W5	Steel zinc-plated	-
Band:	-	-	-	Steel W1 zinc-pl. and thick layer passiv./ Stainless steel W5	Stainless steel 1.4016	-
Body:	-	-	-	Steel W1 zinc-pl. and thick layer passiv./ Stainless steel W5	Steel zinc-plated	Tempered steel, zinc-pl. and yellow passivated
Max. Working Press.:	PN 16/ 25 bar	PN 25 bar	-	-	-	-
Norm:	DIN 20039 A/B	-	-	DIN 3017	DIN 3017	-
Page:	413	414	414	415/416	417	418

Hose Clamps

Standard Version

- Robust clamps made of malleable iron, zinc plated and yellow passivated (free of chrome VI) or stainless steel 1.4401
- Robust, easy and secure, for various fittings and applications

Materials

- Clamps, Spacers: Malleable iron zinc-plated and yellow passivated (free of chrome VI)/ Stainless steel 1.4401
- Screws: Galvanized steel/ Stainless steel A4-70

Max. Working Pressure	Norm
PN 16 / 25 bar	DIN 20039 A/B

Hose Clamps, made of malleable iron, two parts with overlapping cast-on-spacers

Version	Hose-o.D./		L	B	Screw size	Weight	Type No.
	Range						
Hose i.D. 13	22-29		60	17	M 8x30	10	S 22
Hose i.D. 19	27-32		70.5	17	M 8x30	10	S 34

Hose Clamps DIN 20039 A, made of stainless steel 1.4401, two parts with loose spacers

Version	Hose-o.D./		L	B	Screw size	Weight	Type No.
	Range						
Hose i.D. 13	18-26		63	18	M 8x30	5	SLE 13
Hose i.D. 19	26-33		71	18	M 8x30	5	SLE 19
Hose i.D. 25	32-40		81	18	M 10x35	5	SLE 25

Hose Clamps DIN 20039 A, made of malleable iron, two parts with loose spacers

Version	Hose-o.D./		L	B	Screw size	Weight	Type No.
	Range						
Hose i.D. 13	22-29		63	18	M 8x30	10	SL 29*
Hose i.D. 19	28-34		71	18	M 8x30	10	SL 34*
Hose i.D. 25	32-40		81	18	M 10x35	10	SL 40*
Hose i.D. 32	39-49		91	20	M 10x35	10	SL 49*
Hose i.D. 38	48-60		108	24	M 10x45	5	SL 60*
Hose i.D. 50	56-72		116	25	M 10x50	5	SL 72
Hose i.D. 50	60-76		127	25	M 10x50	5	SL 76*
Hose i.D. 63	77-94		146	30	M 12x55	5	SL 94*
Hose i.D. 75	73-94		139	25	M 12x110	1	SL 400
Hose i.D. 75	94-115		176	35	M 12x65	1	SL 115
Hose i.D. 89	113-127		170	27	M 12x110	1	SL 525
Hose i.D. 89	115-145		198	38	M 12x80	1	SL 145
Hose i.D. 100	127-140		178	28	M 12x110	1	SL 550
Hose i.D. 100	135-155		194	27	M 12x110	1	SL 600
Hose i.D. 125	155-175		217	30	M 12x125	1	SL 675
Hose i.D. 150	175-195		244	30	M 12x125	1	SL 769
Hose i.D. 175	210-225		280	35	M 16x150	1	SL 875
Hose i.D. 200	227-250		312	35	M 16x150	1	SL 988

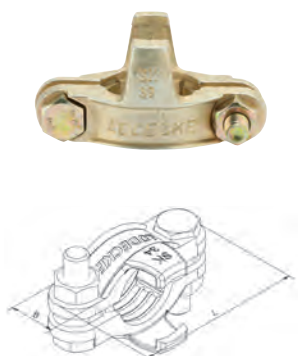
*according to DIN 20039 A

Hose Clamps DIN 20039 B, made of malleable iron, two parts with loose spacers and safety claws***

Version	Hose-o.D./		L	B	Screw size	Weight	Type No.
	Range						
Hose i.D. 13	22-29		63	18	M 8x30	10	SK 29
Hose 19x2			63	18	M 8x30	10	SK 29 FL**
Hose i.D. 19	28-32		77	21	M 10x35	10	SK 34
Hose 25x2			77	21	M 10x35	10	SK 34 FL**
Hose i.D. 25	35-42		90	22	M 10x35	10	SK 39
Hose i.D. 28	42-45		98	24	M 10x35	5	SK 44
Hose i.D. 35	45-53		108	25	M 10x45	5	SK 51
Hose i.D. 42	55-60		119	26	M 10x45	1	SK 60
Hose i.D. 50	60-73		132	30	M 12x55	1	SK 73
Hose i.D. 75	86-102		160	28	M 12x55	1	SK 75

**for flat hose

***PN 25 bar



Hose Clamps

US Version

- Robust clamps made of malleable iron, zinc plated and yellow passivated (free of chrome VI)
- Robust, easy and secure, for various fittings and applications

Materials

- Clamps: Malleable iron, zinc-plated and yellow passivated (free of Chrome VI)
- Screws: Galvanized steel



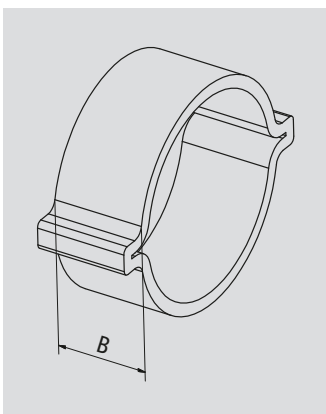
Max. Working Pressure									
PN 25 bar									
US Version Hose Clamps, two parts with safety claws									
Hose-o.D./		L	B	Screw size	Screws	Weight	Type No.		
Version	Range								
Hose i.D. 13	21-27	45	55	M 8x35	2	10	171	LB-4	
Hose i.D. 19	30-35	43	65	M 8x45	2	10	176	SKA 34	
Hose i.D. 19	30-33	64	70	M 10x50	2	1	405	LBU-9	
Hose i.D. 19	33-38	70	71	M 10x50	2	1	413	LB-9	
Hose i.D. 19	38-43	68	78	M 10x60	2	1	433	LB-10	
Hose i.D. 25	34-45	70	85	M 10x50	2	1	500	SKA 10	
Hose i.D. 50	63-70	100	120	M 12x80	4	1	1503	LBU-29	

Double-Ear Hose Clips

- Clips made of special reliable steel, zinc plated and blue chromated (free of chrome VI)
- Easy and fast assembly with pincer
- Concentric and strong clamp-effect, safe and unremovable
- No risk of injury, closed and unremovable connection
- Suitable for assembly of many hoses and fittings for use with various media

Materials

- Clips: Unbreakable special reliable steel, zinc-plated and blue chromated (free of chrome VI)



100			
Double-Ear Hose Clips			
Hose-o.D./ Range	B	Weight	Type No.
5-7	5.5	1	ZOS 5-7
7-9	6	2	ZOS 7-9
9-11	6	2	ZOS 9-11
11-13	6	3	ZOS 11-13
13-15	7	4	ZOS 13-15
14-17	7.5	4	ZOS 14-17
15-18	8	5	ZOS 15-18
17-20	8	5	ZOS 17-20
19-21	7	5	ZOS 19-21
20-23	9	8	ZOS 20-23
22-25	9	9	ZOS 22-25
23-27	9	9	ZOS 23-27
25-28	9	10	ZOS 25-28
27-31	9	12	ZOS 27-31
31-34	9	13	ZOS 31-34
34-37	9	16	ZOS 34-37
37-40	9	17	ZOS 37-40
40-43	9	18	ZOS 40-43
Special assembly pincer		332	ZOSZ

High-Performance Hose Clips

made of Steel W1 (DIN 3017)

- High-performance hose clips made of steel W1, free of chrome VI, zinc-plated and thick layer passivated
- Optimum sealing through high band tension – maximum strip safety
- Hose-protective through rounded edges and smooth band inside
- Thinner screw body with new position, therefore improved torque
- Material and clamp range stamped at inner band side
- Hexagon screw with cross-slotted head
- Regularly spaced tension over complete hose diameter
- Up to size 90 in boxes, sizes 100-180 in plastic bags, from size 190 individually
- For safe, fast and removable use on various hoses and fittings for various media

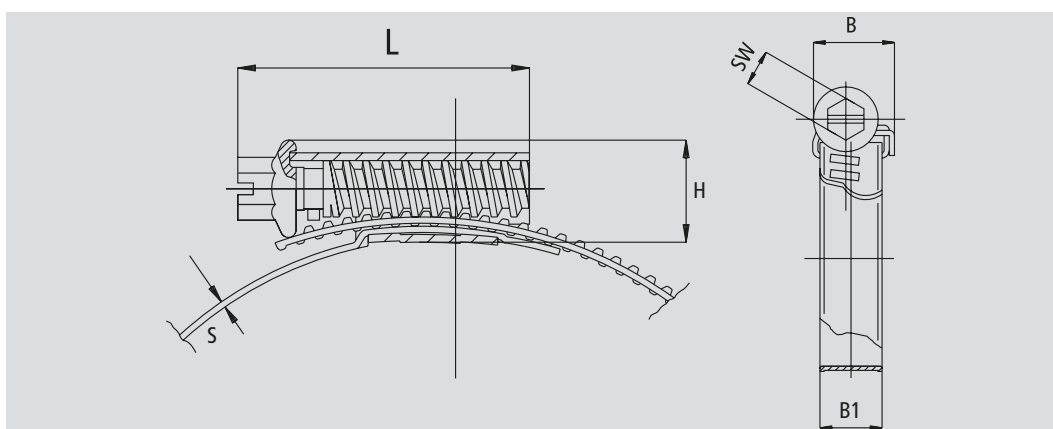
Materials

- Band, Body, Screw: Steel W1, zinc-plated and thick layer passivated

Norm	
DIN 3017	

High-Performance Hose Clips, band and lock steel W 1, zinc-plated

Range	inch	B	SW	torque		band width					Weight	Type No.
				Max.Nm	L	H	band-thickness					
mm							B1	S				
8-12	5/18-1/2	14	7	2-2.5	20.5	11.5	9	0.7	100	12	HS 12	
10-16	5/18-5/8	14	7	2-2.5	20.5	11.5	9	0.8	100	13	HS 16	
12-22	1/2-3/4	14	7	3-3.5	24	11.5	9	0.8	100	16	HS 20	
16-27	5/8-1	16	7	5-5.5	31	13	9	0.8	100	17	HS 25	
20-32	3/4-1 1/4	16	7	5-5.5	31	13	12	0.8	50	27	HS 32	
25-40	1-1 5/8	16	7	5-5.5	31	13	12	1.0	50	32	HS 40	
30-45	1 3/8-1 3/4	16	7	5-5.5	31	13	12	1.0	50	33	HS 45	
35-50	1 1/4-2	16	7	5-5.5	31	13	12	1.0	50	35	HS 50	
40-60	1 5/8-2 3/8	16	7	5-5.5	31	13	12	1.0	25	39	HS 60	
50-70	2-2 3/4	16	7	5-5.5	31	13	12	1.0	25	43	HS 70	
60-80	2 3/8-3 1/8	16	7	5-5.5	31	13	12	1.0	25	45	HS 80	
70-90	2 3/4-3 1/2	16	7	5-5.5	37	13	12	1.0	25	52	HS 90	
80-100	3 1/8-4	16	7	5-5.5	37	13	12	1.0	10	53	HS 100	
90-110	3 1/2-4 3/8	16	7	5-5.5	37	13	12	1.0	10	53	HS 110	
100-120	4-4 3/4	16	7	5-5.5	37	13	12	1.0	10	58	HS 120	
110-130	4 3/8-5 1/8	16	7	5-5.5	37	13	12	1.0	10	60	HS 130	
120-140	4 3/4-5 1/2	16	7	5-5.5	37	13	12	1.0	10	63	HS 140	
130-150	5 1/8-5 7/8	16	7	5-5.5	37	13	12	1.0	5	69	HS 150	
140-160	5 1/2-6 1/4	16	7	5-5.5	37	13	12	1.0	5	71	HS 160	
150-170	5 7/8-6 5/8	16	7	5-5.5	37	13	12	1.0	5	74	HS 170	
160-180	6 1/4-7	16	7	5-5.5	37	13	12	1.0	5	77	HS 180	
170-190	6 1/2-7 1/2	16	7	5-5.5	37	13	12	1.0	1	79	HS 190	
180-200	7 1/8-8	16	7	5-5.5	37	13	12	1.0	1	81	HS 200	
190-210	7 1/2-8 1/4	16	7	5-5.5	37	13	12	1.0	1	86	HS 210	
200-220	8-8 3/4	16	7	5-5.5	37	13	12	1.0	1	92	HS 220	
210-230	8 1/8-9	16	7	5-5.5	37	13	12	1.0	1	98	HS 230	
220-240	8 3/4-9 3/8	16	7	5-5.5	37	13	12	1.0	1	101	HS 240	
230-250	9-9 3/4	16	7	5-5.5	37	13	12	1.0	1	105	HS 250	
240-260	9 3/8-10 1/4	16	7	5-5.5	37	13	12	1.0	1	108	HS 260	
250-270	9 3/4-10 1/2	16	7	5-5.5	37	13	12	1.0	1	112	HS 270	
260-280	10 1/4-11	16	7	5-5.5	37	13	12	1.0	1	116	HS 280	



High-Performance Hose Clips

made of Stainless Steel W5 (DIN 3017)

- High performance hose clips made of stainless steel W5
- Optimum sealing through high band tension – maximum strip-safety
- Hose-protective through rounded edges
- Stamped band
- Thinner screw body with new position, therefore improved torque
- Material and clip range stamped at inner band side
- Hexagon screw with slotted head
- Regularly spaced tension over complete hose diameter
- Up to size 90 in boxes, size 100 in plastic bags
- For safe, fast and removable use on various hoses and fittings for various media

Materials

- Band, Body, Screw: Stainless steel W5
- Special Screw Driver: Chromed steel/ plastic

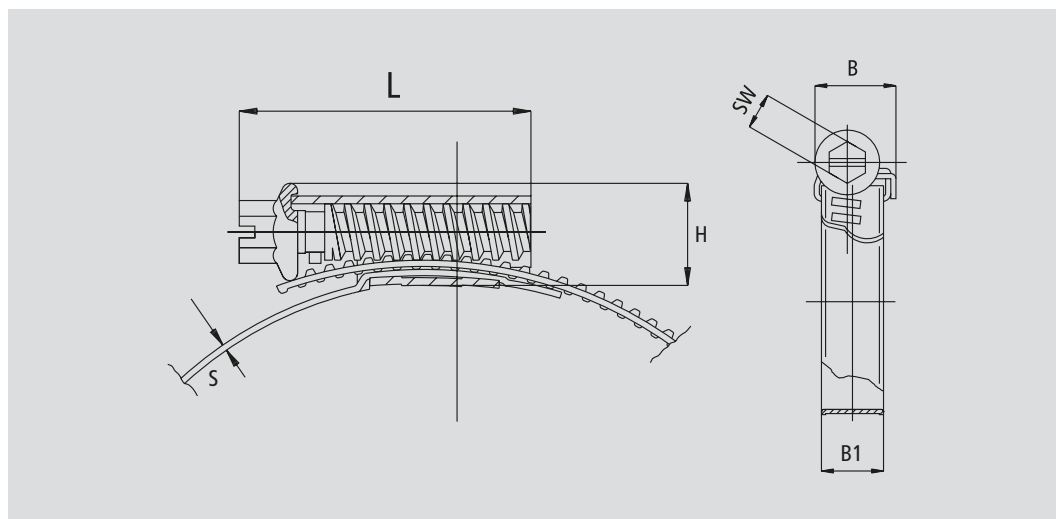
Norm	
DIN 3017	

High-Performance Hose Clips, band and lock stainless steel W 5

Range	torque				Band-width				Weight	Type No.	
	B	SW	Max. Nm.	L	H	B1	S	band-thickness			
8-12	5/18-1/2	10.5	6	1.5	17	9.5	8	0.7	100	6	HSE 12
8-16	5/18-5/8	14	7	2-2.5	21	14	9	0.8	100	11	HSE 16
12-20	1/2-3/4	14	7	2-2.5	24	14	9	0.8	100	13	HSE 20
16-25	5/8-1	14	7	3-3.5	24	14	9	0.8	100	14	HSE 25
20-32	3/4-1 1/4	14	7	3-3.5	24	14	9	0.8	100	15	HSE 32
25-40	1-1 5/8	14	7	3-3.5	26	14	9	0.8	50	18	HSE 40
32-50	1 1/4-2	14	7	3-3.5	26	14	9	0.8	50	18	HSE 50
40-60	1 5/8-2 3/8	14	7	3-3.5	26	14	9	1.0	25	20	HSE 60
50-70	2-2 3/4	14	7	3-3.5	26	14	9	1.0	25	21	HSE 70
60-80	2 3/8-3 1/8	14	7	3-3.5	26	14	9	1.0	25	23	HSE 80
70-90	2 3/4-3 1/2	14	7	3-3.5	26	14	9	1.0	25	25	HSE 90
80-100	3 1/8-4	14	7	3-3.5	26	14	9	1.0	10	28	HSE 100

Special hexagon screw driver of chromed steel with plastic handle

Version	SW	Weight	Type No.
Rigid	7	89	SR STARR
Flexible	7	134	SR FLEX.



Heavy Duty Clamps

made of Steel (DIN 3017)

- Heavy duty clamp made of stainless steel 1.4016
- New special screw with integrated distance tube and better performance
- Reinforced band strap and therefore higher torques (very high breaking torque and very high clamping force)
- Mechanical mounting, therefore no welding points and corrosion contact
- Bridge for sustainable hose relief
- Robust band with rounded edges prevents injuries and hose break
- Simple installation (with manual, pneumatic or electrical standard tools)
- Packed in boxes
- For applications with strict requirements for the hose clamps (for the application of suction and compressed air hoses with high degree of hardness or with plastic / steel core)

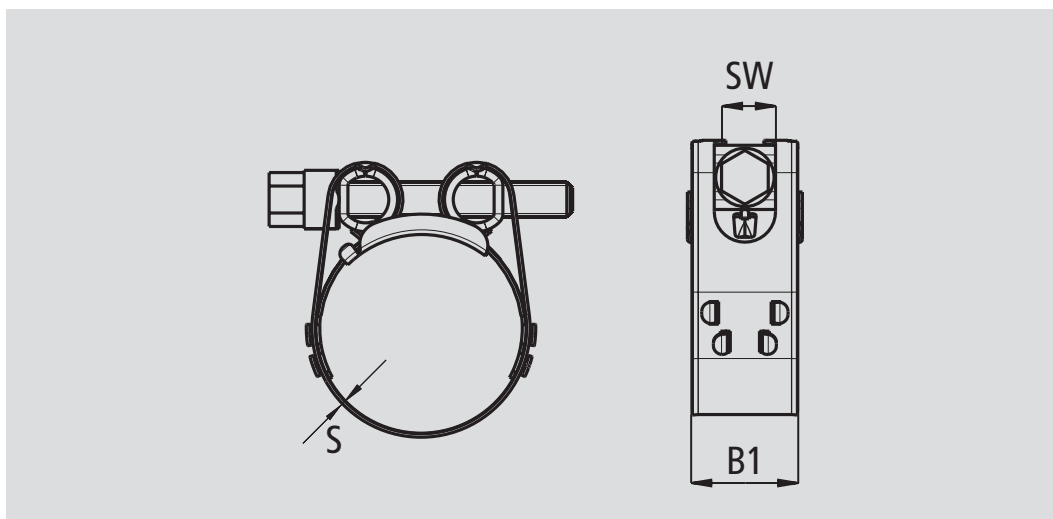
Materials

- Band: Stainless steel 1.4016
- Body, Screws: Steel zinc-plated (free of chrome VI)

Norm	
DIN 3017	

Heavy Duty Clamps

Range	mm	inch	torque		Band width B1	Band thickness S	Weight	Type No.	
			SW	Max. Nm.					
17-19		11/16-3/4	8	8	18	0.6	100	52	GBSM 19
19-21		3/4-13/16	8	8	18	0.6	100	52	GBSM 21
21-23		13/16-15/16	8	8	18	0.6	100	52	GBSM 23
23-25		15/16-1	8	8	18	0.6	100	52	GBSM 25
25-27		1-1 1/16	8	8	18	0.6	50	52	GBSM 27
27-29		1 1/16-1 1/8	8	8	18	0.6	50	52	GBSM 29
29-31		1 1/8-1 1/4	8	8	18	0.6	50	85	GBSM 31
31-34		1 1/4-1 5/16	8	8	18	0.6	50	85	GBSM 34
34-37		1 5/16-1 7/16	8	8	18	0.6	50	85	GBSM 37
37-40		1 7/16-1 9/16	8	8	18	0.6	50	85	GBSM 40
40-43		1 9/16-1 11/16	8	8	18	0.6	50	85	GBSM 43
43-47		1 11/16-1 7/8	10	10	20	0.8	25	85	GBSM 47
47-51		1 7/8-2	10	10	20	0.8	25	85	GBSM 51
51-55		2-2 3/16	10	10	20	0.8	25	115	GBSM 55
55-59		2 3/16-2 5/16	10	10	20	0.8	25	115	GBSM 59
59-63		2 5/16-2 1/2	10	10	20	0.8	25	115	GBSM 63
63-68		2 1/2-2 11/16	10	10	20	0.8	10	115	GBSM 68
68-73		2 11/16-2 7/8	13	20	25	1.0	10	153	GBSM 73
73-79		2 7/8-3 1/8	13	20	25	1.0	10	153	GBSM 79

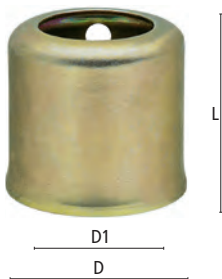


Ferrules for Low Pressure Hose Lines

- Ferrules of redhotted steel, zinc-plated and yellow passivated
- Easy, fast and absolutely safe hose crimping with **LUDECKE** hand-operated assembly machine SPR 333 up to type LPH-23
- No risk of injury, closed and unremovable connection
- For crimping of various hoses and fittings for use with various media

Materials

- Body: redhottet steel, zinc-plated and yellow passivated




Max. Working Pressure									
PN 16 bar									
for hose									
D	for hose			L	D1	Assembly-M.	Weight	☐	Type No.
	DIN 20018	Water	PVC						
12.5				17	8.5	SPR 333	3	100	LPH-12,5
13.5			6x3	20	9.3	SPR 333	5	100	LPH-13,5
14.5	6x3.5			17	10	SPR 333	5	100	LPH-14,5
16			8x3	17	11.5	SPR 333	5	100	LPH-16
18	9x3.5		10x3	20	13.5	SPR 333	7	100	LPH-18
19			12x3	20	13.9	SPR 333	9	100	LPH-19
19.5				26	14.5	SPR 333	10	100	LPH-19,5
21				26	14.5	SPR 333	12	100	LPH-21
22				32	17	SPR 333	16	100	LPH-22
23		13x3		32	17	SPR 333	18	100	LPH-23
25	13x5			32	17		19	100	LPH-25
28	15x6			32	20.5		22	100	LPH-28
30.5		19x4		33	24.3		24	100	LPH-30
33	19x6			35	24.8		40	100	LPH-33
38		25x4.5		35	28		47	25	LPH-38
41	25x7			40	30		64	25	LPH-41

For higher Working Pressure we recommend hydraulic crimping with turned steel-ferrules type PH (☐ page 261) or on request.

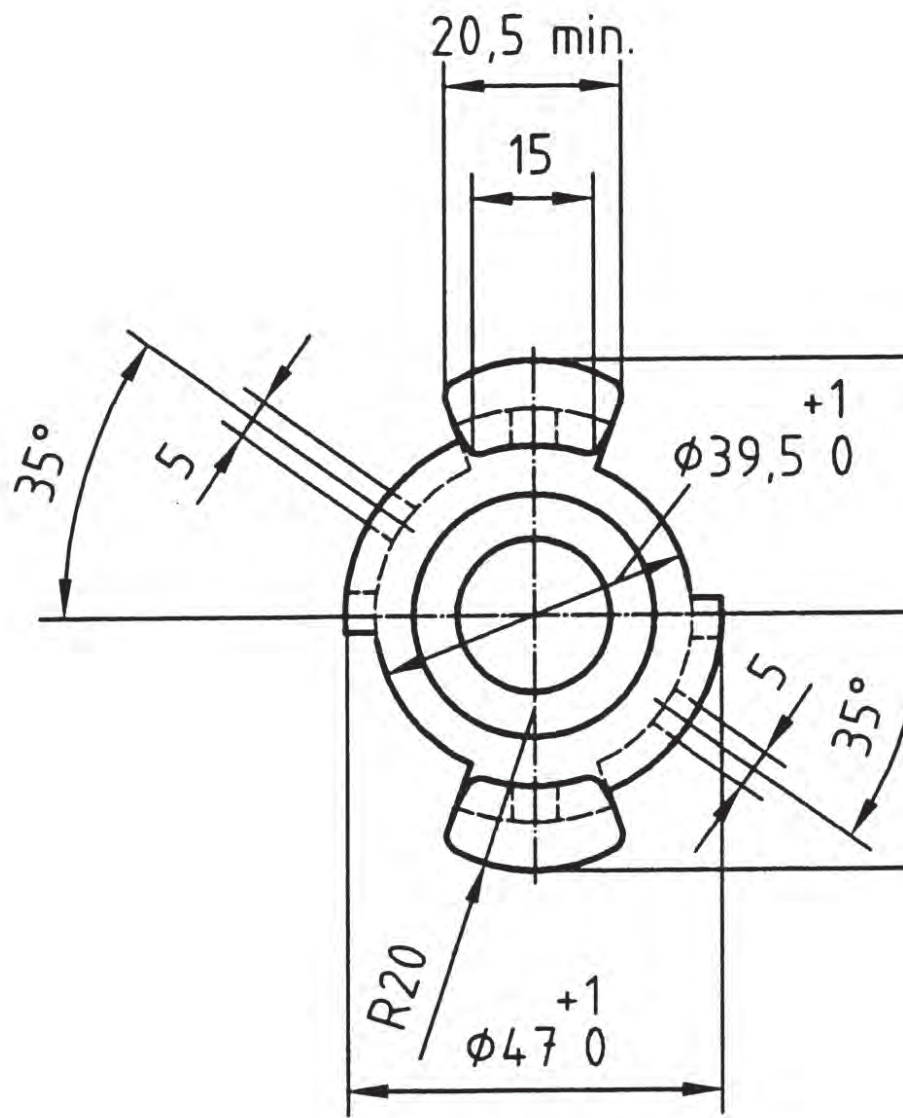
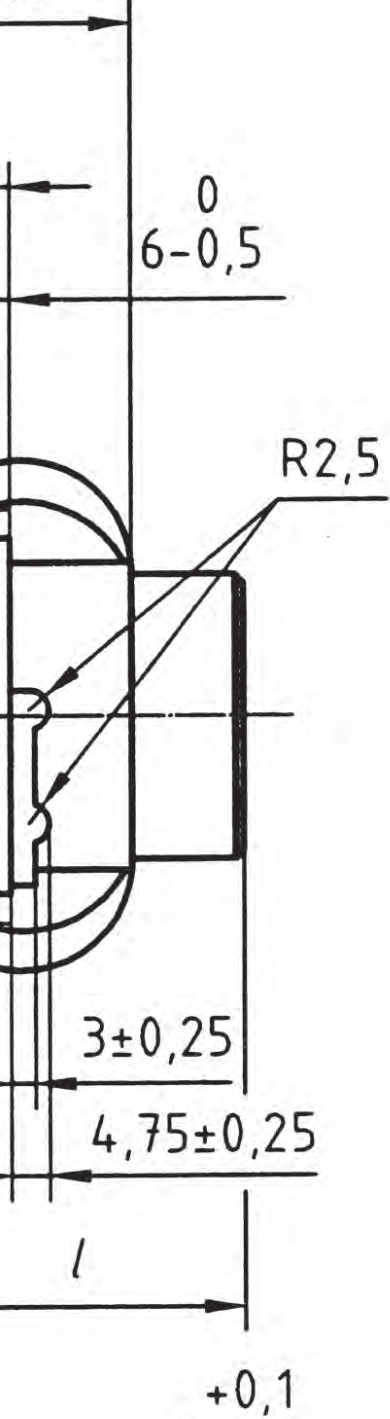
Hand-Operated Assembly Machine

for Low Pressure Ferrules

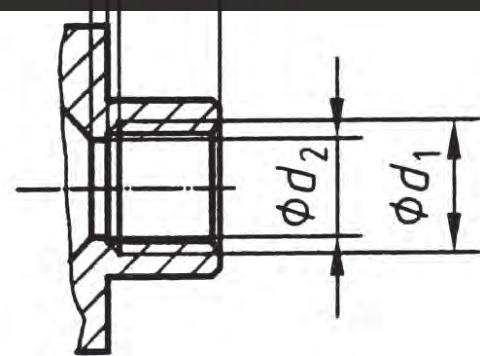
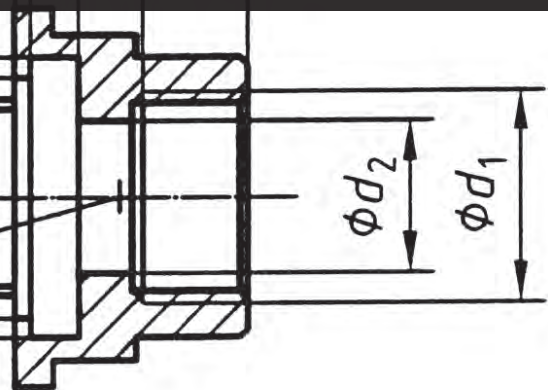
- Crimping machine for easy and safe assembly of low-pressure hoses from 3 to 20 mm Hose i.D.
- **Clean:** Exact assembling of fitting, hose and ferrule through centric crimping of the ferrule
- **Inexpensive:** Fast assembling at reasonable costs
- **Safe:** Improved safety through perfect fit
- **Elegant:** Reduced danger of injury
- With two crimping-jaw sets for crimping range from 3 to 20 mm and from 10 to 20 mm.
- **Flexible:** For mobile use

For hoses							
Hose o.D./							
Hose i.D.	Range	suitable ferrule	e.g. for fitting		Weight	Type No.	
3-20	10-22	LPH 12.5-23	Pneumatic-Connect., ES-Couplings	1	12.2	SPR-333	





Technical Appendix





Engineering Expertise



Development Process of a Custom Solution



Metals



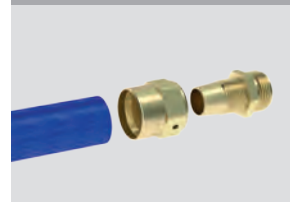
Sealing Materials



RoHS Directive



Hose Assembly with Thread Ferrules



Conversion Tables



Thread Tables





Engineering Expertise For Every Application Area the Perfect Solution

We are constructing and manufacturing fittings and couplings for our customers all over the world from various materials for different applications. Our product selection displays endless options with the possibility to select out of 20,000 products. To find the correct solution please contact our team of specialists in the Amberg headquarters - we are here to support.

We provide you with the best possible coupling system matching your application. Therefore, we offer a great variety of different sizes, various valve technologies for best flow characteristics to prevent leakages and guarantee a perfect use. The required tests are conducted in house (pressure, temperature, etc.).



Due to our CIM-System (Computer Integrated Manufacturing) - up from the construction drawing on CAD to the production monitoring and testing by SPC - we are the ideal partner for any kind of customized solution on different application areas. Of course, we also manufacture fittings according to your specifications (drawings or sample).

One of our key competences is the construction and testing of coupling and hose assembly options for newly developed hoses for different media and applications. Over the years, we have developed and gained much experience and know-how through close cooperation with leading industrial hose manufacturers, to offer you optimal matched and safe solutions in a quick and flexible way.

Development Process of a Custom Solution

From the Requirements to the Individual Solution

1. Enquiry from Customer



Once an enquiry for a specific special solution from a customer reaches us, the respective sales representative will contact the customer directly to communicate the exact specifications of the product. As already described on page 23, specifics of the media to be used (type, pressure, temperature), and application play a decisive role. The more accurate the communication is, and the more information we receive, the faster and precisely targeted process of the development can begin. Our sales and technical staff are prepared to go on location at any time to obtain an exact picture of the application and requirements.

Upon these initial, but significantly important steps, a pre-analysis takes place between sales and development staff, whether and by what means the requirements of the customer can be implemented.

2. Development and Concept of the Solution



Based on the requirements on the product, the performance-specific tasks and responsibilities are defined in a project team from the various internal departments. The first step is the CAD design, which is technically tested and internally approved. After the internal approval, the drawing is sent to the customer for review. Throughout the development process, a cross-departmental exchange regularly takes place, which is why we can react quickly and flexibly to possible changes or adjustments.

3. Prototyping, Laboratory and Field Tests



Upon completion of the design phase and drawing approval from the customer, and when technically necessary and in agreement with engineering, a prototype is ordered. The production of a prototype or prototype series is always coordinated with the responsible sales representative in advance. Should the customer approve the prototype, detailed tests are carried out, subject to the product and its application. The tests are executed in both the laboratory and in the field.

The testing phase is continuously monitored and documented in detail within the framework of an initial sample test report. If changes occur during the testing phase, they will naturally flow into the development process.

4. Production and Quality Assurance



Once the customer approves the initial samples, the serial product begins. **LUDECKE** has the highest quality demands for all products. In order to guarantee our customers high-quality products at all times, regular quality controls are conducted during the ongoing serial production process. The corresponding test specifications are individually adapted according to the product and integrated into every step of the supply chain. This ensures a complete quality assurance and ensures the aspiration „Engineered and Made in Germany“.

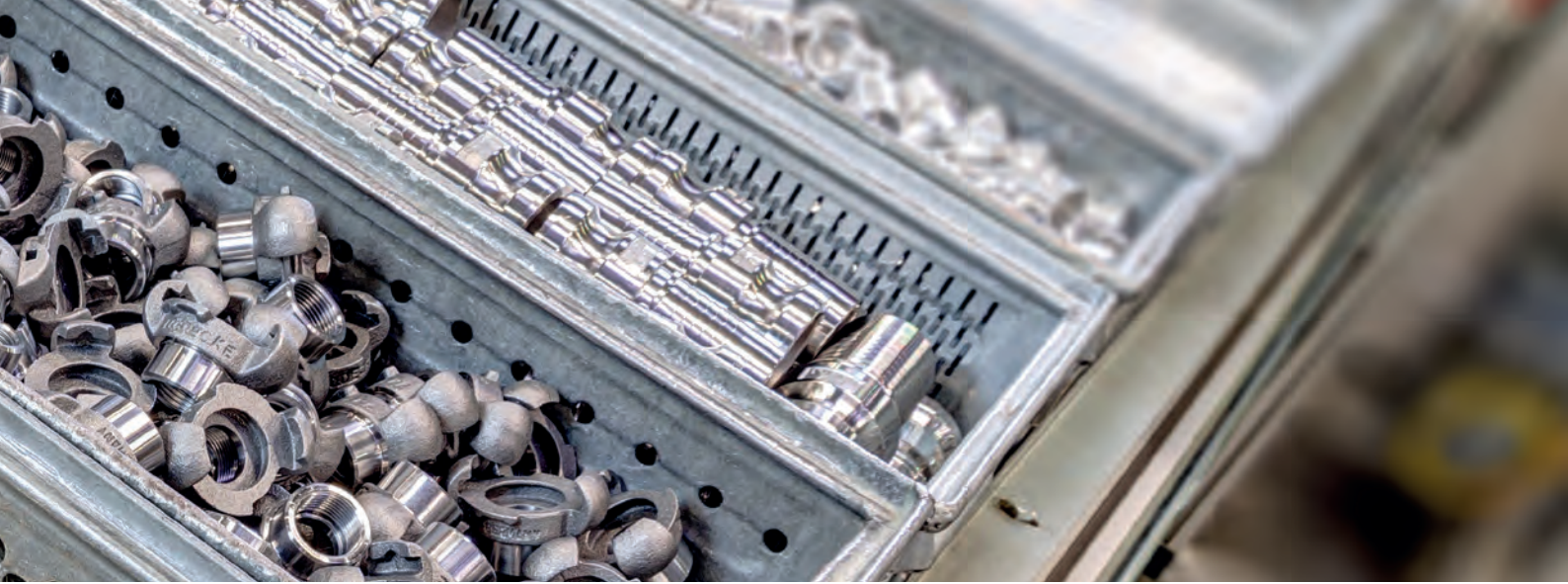


Metals

Overview of the used standard materials at **LUDECKE**

LUDECKE offers various materials which are suitable for different media, applications and other factors.

		
Material	Malleable iron	Brass
Specification	White acc DIN 1562 (EN-GJMW-5)	Brass MS 58 (CuZn93Pb3) Material CW614N
Description	<ul style="list-style-type: none"> • Steel carbon material, heat treated allows to keep the mechanical characteristics • Allows to manufacture complex forms with castings, die cast hardening by thermo treatment • Best resilience characteristics: Material composition allows also usage in heavy duty applications, avoids brittle fracturing 	<ul style="list-style-type: none"> • Most used alloy for machined manufacturing processes • High durability • Best characteristics for nickel-plating • Very good for producing turned parts
Pressure Resistance	300 - 800 N/mm ²	360 - 550 N/mm ²
Industries	     	      

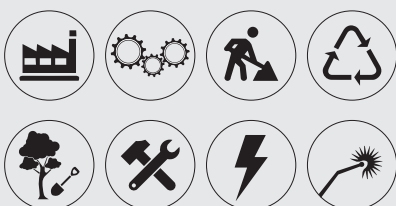


Machining Steel

11 S Mn Pb 30K
Material 1.0718 according to DIN EN 10087

- Best possible characteristics for a most economical manufacturing, related with precision and surface finishing
- Soldering and hardness features for long duration
- Excellent weldability

380 - 570 N/mm²



Aluminium

Al Mg Si 1 F 31
Material according to EN AW-6082

- Wrought alloy Al Mg Si 1F 31 can be hardened up to a medium firmness
- Good corrosion resistance
- Polishable, chemical resistant
- Perfect for metal cutting processing

300 - 3500 N/mm²

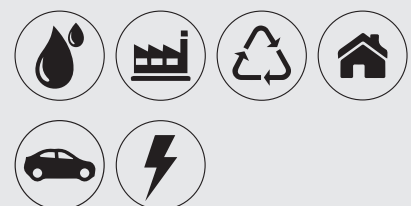


High-Resilient Special Brass (ECOBASS)

UNS C 69300

- New, innovative material
- Combines processing feature of brass and hardness of stainless steel
- Contains no toxic additives nor lead (compliant to automotive standards)
- No discolouring

380 - 570 N/mm²





Metals

Overview of the used stainless steels at **LUDECKE**

In applications with specific hygienic standards or in lines with aggressive liquids, premium couplings and fittings are required. These products allow a safe and reliable process within the connected system machinery or tool. To meet the necessary requirements and to guarantee a long service life, couplings and fittings made of stainless steel are recommended.

	Stainless Steel 1.4105	Stainless Steel 1.4305	Stainless Steel 1.4307
Material	Stainless Steel 1.4105	Stainless Steel 1.4305	Stainless Steel 1.4307
Specification	Ferritic steels according to DIN EN 10088-3	Austenitic steels according to DIN EN 10088-3	Austenitic steels according to DIN EN 10088-3
Description	<ul style="list-style-type: none"> • Excellent machinability • Bad weldability • High magnetic properties 	<ul style="list-style-type: none"> • Excellent machinability • Bad weldability 	<ul style="list-style-type: none"> • Good machinability • Excellent weldability • Suitable for cryogenic applications
Pressure resistance	430 - 630 N/mm ²	500 - 750 N/mm ²	500 - 700 N/mm ²
Industries			



Stainless Steel 1.4401

Austenitic steels according to DIN EN 10088-2

- Very good cold formability
- Excellent weldability

530-680 N/mm²

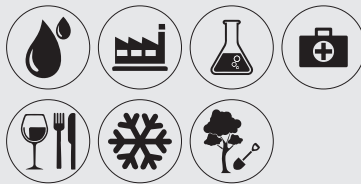


Stainless Steel 1.4404

Austenitic steels according to DIN EN 10088-3

- Excellent weldability
- Suitable for cryogenic applications

500 - 700 N/mm²



Stainless Steel 1.4571

Austenitic steels according to DIN EN 10088-2

- Temperature resistant
- Excellent weldability
- Bad machinability

500 - 700 N/mm²





Sealing Materials

Sealing compounds and its characteristics

LUDECKE offers - subject to application and requirement - various seals made of diverse material. Of course, only approved seals are used which meet all requirements.

	Buna N	EPDM	FKM
Material	Buna N	EPDM	FKM
Specification	NBR	Ethylen-Propylen-Terpolymer	Fluor elastomer/ FPM
Description	<ul style="list-style-type: none"> Resistance to mineral based oils and carbon hydrate containing gasolines 	<ul style="list-style-type: none"> Resistant to water steam, alkali, mild acids and acid containing solvents* High resistance vs aging 	<ul style="list-style-type: none"> For use of various oils and greases*
Pressure resistance	Best	Best	Best
High temperature resistance	Good	Good	Best
Low temperature resistance	Best	Best	Good
Typical application	Hydraulics, Pneumatics	Glycol based breaking fluids, steam, hot water and heated air up to 150°	Hydraulics, Aviation, Automotive
Industries			



PTFE (Teflon)	Hypalon	TFEP	FFKM
<p>Polytetrafluorethylen</p>	<p>Chlorosulfonated-Polyethylene (CSPE) Synthetic Rubber/CSM</p>	<p>Tetrafluorethylene/Propylene</p>	<p>Perfluoroelastomer</p>
<ul style="list-style-type: none"> • High partical crystalline plastics • Not meltable-liquid, only rubber like and soft • Best anti-friction properties • Barely weldable • To be used in a wide-spread temperature range • Outstanding chemical resistance • Environmental resistance 	<ul style="list-style-type: none"> • Highly resistant vs chemicals • Extreme resistant vs. oxidants, light, sunlight and ozone 	<ul style="list-style-type: none"> • Resistant against various media and chemicals*, in particular media with amine containing additives corrosion preventive liquids 	<ul style="list-style-type: none"> • Similar chemical resistance like PTFE • Elastic features from FPM/ FKM • Extraordinary pressure andretaining character
Best	Best	Best	Best
Best	Best	Best	Best
Best	Best	Good	Best
<p>Tank processing, chemical pumps, coating for repellent surfaces, bearing, seals and tapping bellow valves, piston rings isolated electronic parts, bearing constructions, anti-adhesive coatings</p>	<p>Cable coverage, acid resistant tubing, inner coating of tanks, seals, membranes</p>	<p>Chemical plants, motors</p>	<p>Chemical plants, oil production, aviation, motors and fittings</p>

*Complete overview over the media resistance can be seen on page 430



Sealing Materials

Table of Resistance

Media	Brass	Buna N	EPDM	FKM	PTFE	Hypalon	TFEP	FFKM
Acetic Acid	3	3	4	3	1	1	-	1
Acetone	1	4	1	4	1	2	4	1
Acetylene	3	1	1	1	1	1	-	1
Acid Brine	4	1	1	1	1	-	-	-
Acrylnitril	1	4	4	3	1	4	-	1
Ammonia (dry)	4	2	1	4	1	1	1	1
Air	1	1	-	1	1	-	-	-
Aviation-Gasoline	1	1	4	1	1	-	-	-
Beer	2	1	1	1	1	1	-	1
Benzene	2	4	4	3	1	4	3	1
Borax	2	1	1	1	1	1	-	1
Bromine (dry)	3	4	4	3	1	3	-	1
Butane (gaseous)	1	2	4	1	1	1	-	1
Carbon Dioxide (dry)	1	1	2	1	1	1	-	1
Carbon Acid	2	4	2	1	1	4	-	-
Carbonic Acid	4	1	2	1	1	1	-	1
Castor Oil	1	1	3	1	1	1	1	1
Chloroform (dry)	2	4	4	1	1	1	4	1
Chrom Acid	4	4	4	1	1	1	-	-
Chlorine (dry)	4	4	2	2	1	1	-	1
Diesel Oil	1	1	4	1	1	2	4	1
Drill Oil	1	2	-	1	1	-	-	-
Emulsion Oil-Water	1	1	-	1	1	-	-	-
Fat Acid	4	2	4	1	1	2	-	1
Ferric Chloride	2	2	1	1	1	1	-	1
Fluor (trocken)	4	4	4	2	1	1	-	2
Formic Acid	2	4	3	4	1	1	2	2
Formaldehyde	2	2	1	4	1	1	1	1
Gasoline	1	1	4	1	1	1	-	1
Glucose	1	1	1	1	1	1	-	1
Glycol	2	1	1	1	1	1	-	1
Glycerin	4	1	1	1	1	1	1	1
Heavy Fuel	2	4	4	3	1	2	-	-
Hydrogen Peroxide	2	4	3	2	1	1	-	1
Hydrochloric	4	4	1	2	1	1	2	1
Ink	3	1	1	1	1	1	-	-
Kerosene	3	1	4	1	1	1	1	1
Liquid Gas	1	3	-	1	1	-	-	-
Light Fuel	2	3	4	2	1	2	-	-
Lighting-Gas (w/o. Benzene)	1	2	-	1	1	-	-	-
Linseed Oil	2	1	4	1	1	1	-	1
Lubricating Oil	2	1	4	1	1	3	-	1
Magnesium Hydroxide	3	1	1	1	1	1	-	1
Magnesium Sulfate	2	1	1	1	1	1	-	1

1 = high resistant

2 = resistant

3 = limited resistant

4 = non-resistant

- = not tested yet



Media	Brass	Buna N	EPDM	FKM	PTFE	Hypalon	TFEP	FFKM
Methane	1	1	4	1	1	2	-	1
Mercury	4	1	1	1	1	1	-	1
Milk	-	1	3	1	1	1	-	1
Mineral Oil	1	1	4	1	1	4	-	1
Molasses	3	1	1	1	1	1	-	-
Naphata	2	1	4	1	1	1	-	1
Naphtalene	3	4	4	1	1	1	1	1
Nitric Acid	4	4	2	2	1	1	2	1
Nitrobenzen	4	4	4	2	1	1	1	1
Nitrogen	1	1	1	1	1	1	-	1
Olive Oil	2	1	4	1	1	2	1	-
Oil Acid	2	3	4	2	1	4	1	-
Oxygen	1	4	1	2	1	3	-	1
Paraffin	1	1	4	1	1	4	-	1
Pentan	1	1	4	1	1	-	-	-
Petroleum	1	1	4	1	1	2	-	1
Phosphor Acid (Cold)	4	2	2	1	1	1	1	1
Propylene	2	1	4	1	1	4	-	1
Potassium Chloride	2	1	1	1	1	1	1	1
Potassium Sulfate (watery)	2	1	1	1	1	1	-	1
Resin	1	3	-	3	1	-	-	-
Sodium Carbonate	3	1	1	1	1	1	-	1
Sodium Chloride	3	1	1	1	1	1	1	1
Sodium Nitrate	2	1	1	1	1	1	1	1
Sodium Sulfate	2	1	2	1	1	1	-	1
Sodium Sulfide	4	2	1	1	1	1	-	-
Sodium Hydroxide 2% cold	3	1	1	1	1	1	1	1
Steam (100°C)	1	4	1	4	1	1	1	1
Sulphuric Acid	3	4	4	1	1	1	1	1
Seawater	2	1	1	1	1	1	-	1
Tannic Acids	2	2	1	1	1	1	-	1
Tar and Tar Oil	3	4	4	2	1	4	-	1
Terpentine	2	2	4	1	1	1	3	1
Toluene	1	4	4	2	1	4	4	1
Tri-Per	1	4	-	1	1	-	-	-
Varnishes and Solvents	3	4	4	1/4	1	4	-/4	1
Vinegar	3	2	1	2	1	1	-	1
Water (Cold)	1	1	1	1	1	1	1	1
Xylole	1	4	4	1	1	2	3	1
Zinc Chloride	4	2	1	1	1	2	1	1
Zinc Sulfate	2	1	1	1	1	1	-	1



RoHs Directive

RoHs Directive

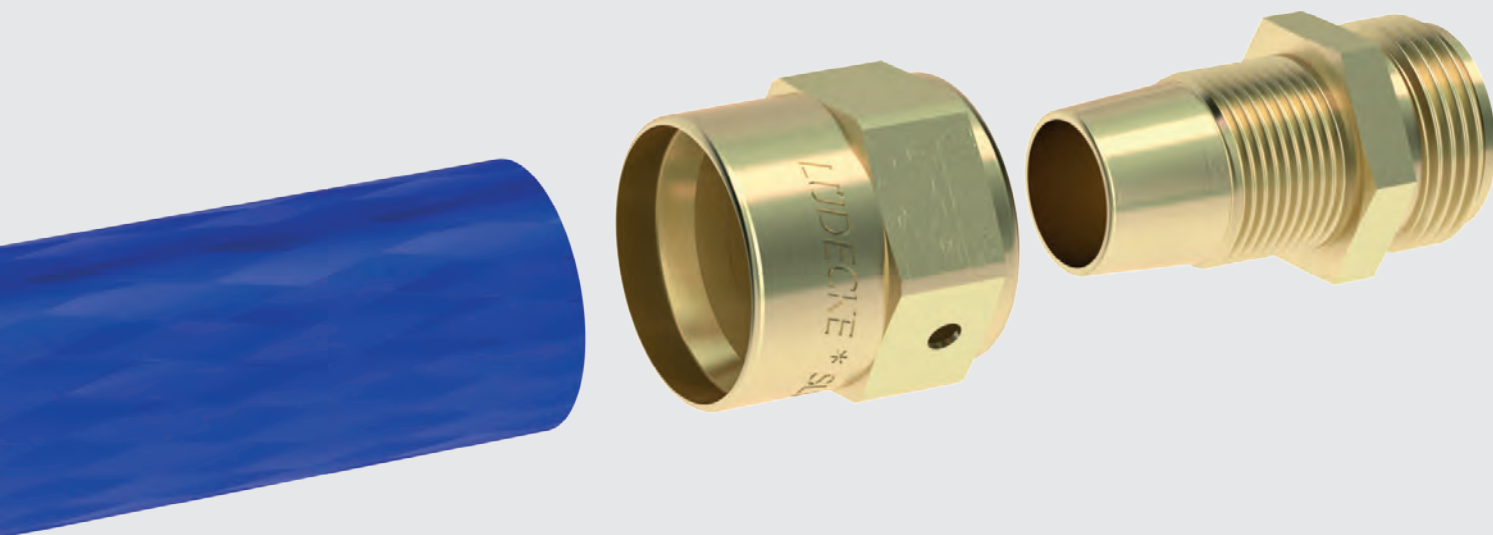
Exclusion of dangerous substances – EU directive 2002/95/EG, 2003/11/EG and 2005/618/EG (RoHs)

In order to adhere to this directive, our galvanic equipment has been changed to chrome-VI-free zinc-plating.

It is to be emphasised that we will keep on supplying our steel and malleable-iron articles yellow-coloured because the formerly yellow chromising containing chrome VI has been replaced by a high-grade chrome-VI-free yellow passivation.

In the future our steel and malleable-iron products will not change their look as demanded by our customers, the RoHs directive will be adhered to and the quality of our coupling systems "Made in Germany" will be improved once more due to this high-grade surface treatment. The compliance with all other standards of the RoHs directive is also guaranteed regarding our suppliers of semi-finished goods and all internal production proceedings.

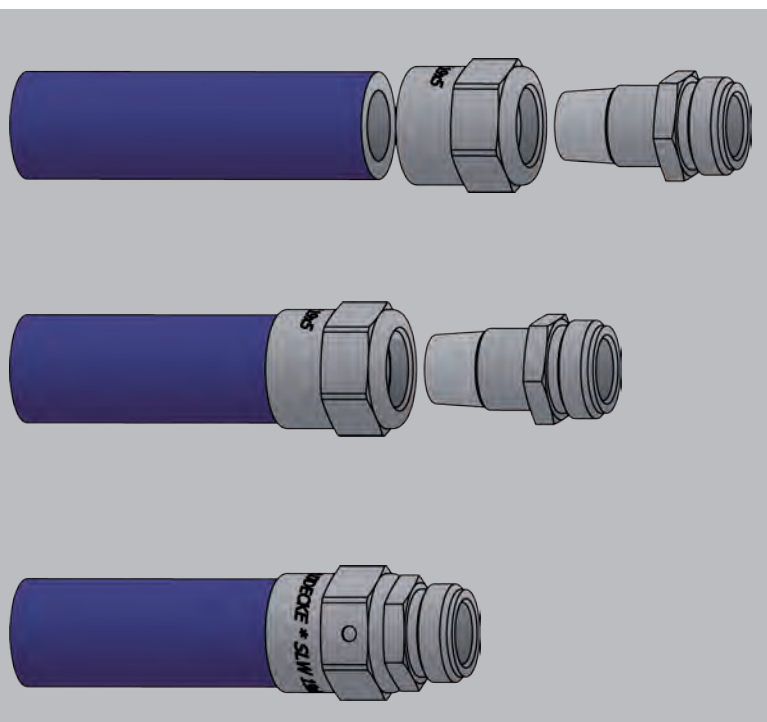




Hose Assembly With Thread Ferrules DIN EN 14 424

Instructions for hose assembly with thread ferrules

- Thread ferrule according to DIN EN 14 424 as the perfect hose connection for optimum security
- Please pay attention to the details for the essential hose wall thickness!
- Visual inspection hole, to identify location of hose



1. The fitting must be clamped in a vice.
2. Put the ferrule over the straight-cut hose (pay attention to the correct hose dimensions!)
3. Move the hose with ferrule over the stem up to the thread (use lubricant if necessary).
4. Control the correct hose fit by means of the viewing hole in the ferrule.
5. Screw the ferrule with the aid of a spanner on the fitting's thread until you reach the limit.
6. Control once again the correct hose fit by means of the viewing hole.
7. The thread ferrule is unlockable and reusable at anytime.



Conversion Tables

Pressure - Temperature Table Saturated Steam	
bar	°C
1	119.0
2	132.8
3	142.8
4	150.9
5	157.9
6	164.0
7	169.5
8	174.4
9	178.9
10	183.1
11	187.1
12	190.7
13	194.2
14	197.4
15	200.4
16	203.4
17	206.2
18	208.8
19	211.4
20	213.9
30	234.6
40	250.6
50	263.9

Conversation Table bar – PSI			
1 bar = 14.5035 PSI		1 PSI = 0.0689 bar	
bar	PSI	PSI	bar
10	145.0350	10	0.6890
20	290.0700	20	1.3780
30	435.1050	30	2.0670
40	580.1400	40	2.7560
50	725.1750	50	3.4450
60	870.2100	60	4.1340
70	1015.2450	70	4.8230
80	1160.2800	80	5.5120
90	1305.3150	90	6.2010
100	1450.3500	100	6.8900

Length Units	
Millimetre	Inch
1	0.0393701
Inch	Millimetre
1	25.4

Temperature	
°Celsius	°Fahrenheit
1	33.8
°Fahrenheit	°Celsius
1	25.4

Measurements

Following a restructuring of our products we standardised our data. This ensures an easier understanding and better overview of our product data.

Unless otherwise stated, our measurements relate to:
Lengths, Diameters: Millimetre (mm)
Weights: Gramm (g)

Threads

Our fittings are available with:

Thread Type	Current Norm	Old Norm
Metric ISO Thread	DIN 13	DIN 13
Inch Thread	DIN EN ISO 228	ISO 228
Whithworth Pipe thread	DIN EN 10226	DIN 2999
NPT Thread	ANSI/ ASME B1.20.1	ASA B2.1
Parallel Thread	ISO 7/1	ISO 7/1
Corase Thread	DIN 405	DIN 405
Pipe Thread	DIN EN 10226	DIN 2999
Pipe Thread (short)	DIN 3858	-

Please contact our competent Sales Team for any questions about our product information.
We reserve the right for technical modifications of our products prior information.

Whitworth Pipe Thread according to ISO 228 and DIN EN 10226, formerly DIN 2999

BSPP Thread ISO 228	BSPT Thread DIN 2999	Nominal \varnothing outside rounded (mm)	bottom \varnothing of thread female (mm)	Number of turns per inch = 25.4 mm
G 1/8	R 1/8	10	8.566	28
G 1/4	R 1/4	13	11.445	19
G 3/8	R 3/8	17	14.950	19
G 1/2	R 1/2	21	18.631	14
G 5/8	R 5/8	23	20.587	14
G 3/4	R 3/4	26	24.117	14
G 7/8	R 7/8	30	27.877	14
G 1	R 1	33	30.291	11
G 1 1/4	R 1 1/4	42	38.952	11
G 1 1/2	R 1 1/2	48	44.845	11
G 2	R 2	60	56.656	11
G 2 1/2	R 2 1/2	75	72.226	11
G 3	R 3	88	84.926	11
G 4	R 4	113	110.072	11

Knuckle Thread DIN 405

Thread (Inch)	Nominal \varnothing outside rounded (mm)	Bottom \varnothing of thread f. (mm)	Number of turns per Inch=25.4 mm
Rd 24x1/8	24	21.14	8
Rd 32x1/8	32	29.14	8
Rd 38x1/8	38	35.14	8
Rd 46x1/6	46	42.19	6
Rd 55x1/6	55	51.19	6
Rd 62x1/6	62	58.19	6
Rd 75x1/6	75	71.19	6
Rd 90x1/6	90	86.19	6
Rd 105x1/4	105	99.28	4
Rd 150x1/4	150	144.28	4

American Taper Pipe Thread NPT (Abstract of ASA B2.1 - (1960))

Thread (Inch)	Bottom \varnothing outside rounded (mm)	Number of turns per Inch=25.4 mm
1/8	10.287	27
1/4	13.716	18
3/8	17.145	18
1/2	21.336	14
3/4	26.670	14
1	33.41	11 1/2
1 1/4	42.164	11 1/2
1 1/2	48.260	11 1/2
2	60.325	11 1/2



Delivery and Payment Terms

For issuing work certificates we charge following expenses:

Certificate according to DIN EN 10 204 (formerly DIN 50.049) 2.1: 20.– Euro; Certificate according to 2.2: 30.– Euro;

Certificate according to 3.1: according to expenditure.

All list prices without VAT.

New prices valid as from January 2018

Order:

An order is valid through our written confirmation. In case of delivery without written confirmation, the invoice is to be considered as order confirmation.

Validity of Offers:

Offers on our part without any specification of time limits automatically lose their validity after 30 days without any separate notification.

Delivery:

1. Deliveries are made according to Incoterms 2000.
2. Our prices are without engagement and are to be understood ex works Amberg / Germany, packing excluded plus statutory VAT. The shipment shall be made for the account of and at the risk of the customer.
3. Consignments for export are delivered according to individual agreements.
4. Invoices are issued according to the prices valid on the day of the order. Price increases during the year due to increased cost of raw materials are reserved.

Package:

1. Depending on quantity and destination packaging in cartons, containers, pallet boxes, loaned containers or boxes for sea transport.
2. Packaging material is charged at cost price and not taken back.

Payment:

1. Payments made within 14 days from date of invoice will be subject to a discount of 2 %.
2. Payments shall be made within 30 days net from the date of invoice.
3. For national orders below 50.00 Euro and international orders below 100.00 Euro there is a 10.00 Euro minimum quantity surcharge.
4. If the period allowed for payment should be exceeded, we are entitled to charge interest rates of a minimum of 3 % above the actual reference rate of EZB, without a notice of default being required.

Retention of Title:

1. All goods delivered remain our property (conditional goods) until all demands which either already exist or which come to exist have been settled, even if payment has been made against specifically identified claims.
2. In the case of current accounts, the reserved ownership serves as a security for the balance of our claims (current account reservation).
3. Repossession of the delivered goods on our part does not represent a withdrawal from the contract unless we have explicitly declared such a withdrawal in writing.
4. The customer is entitled to sell the delivered goods through normal business channels.
5. The customer assigns to us all claims against his buyer or against third parties up to the level of the final which may accrue to him as a result of the resale. They serve to the same extent as the conditional goods as security for our claims.
6. The customer is entitled to collect against these claims even after they have been assigned. Our authorization to collect against these claims ourselves is not hereby affected; nevertheless we agree not to collect the claims ourselves, as long as the customer correctly fulfills his duties of payment and does not fall into arrears.
7. Through the processing, incorporation or mixing of the conditional goods with other goods on the customer's part, a joint ownership in the new object shall accrue to us in proportion to the invoice value of the conditional goods as compared with the invoice value of the other goods used.
8. If the conditional goods are disposed together with other goods, the claims arising there from are assigned to us in proportion to the invoice value of the conditional goods as compared with the invoice of the other goods.
9. We agree to release the securities to which we are entitled at the buyer's request, to the extent that their value exceeds that of the claims to be secured, as far as these are not yet settled, by more than 20 %.

**Time of Delivery:**

1. The stated delivery time is given at our discretion and without engagement. When setting the delivery times we ensure that in all likelihood we are able to deliver the order at the given time at the latest.
2. Unless otherwise specifically agreed in writing, all information is non-binding.
3. We reserve the right to entirely or partially withdraw from the contract in case of unforeseen events or force majeure.

Objections:

1. Objections are only accepted within 8 days from receipt of goods and cannot be considered later on.
2. In case of legitimate objections we offer replacement free of charge within the statutory guarantee provisions. Consequential damage such as additional cost in terms of staff is not reimbursed.
3. All return deliveries are subject to advance notification and authorization in writing.
4. Ex works return shipments not caused by our fault are generally not accepted.
5. There is a restorage fee of 30 % of the net value of the goods, however, at least 50.00 Euro. Return shipments are only allowed for non-used products within a 12-month period following the delivery.
6. All products shipped back will be part of a visual and technical test.
7. For return shipments due to our fault we arrange the shipment after customer information. Arising costs by unauthorized returns are generally not reimbursed.

Illustrations:

Serve only as a means for a better explanation and are therefore subject to modifications.

Product Modifications:

We reserve the right to modify our products without information in advance, to change technical features, design or spare parts.

Setting place and venue:

The place of performance for all obligations arising from the contractual relationship is Lüdecke's head office in 92224 Amberg. The sole place of jurisdiction for all disputes arising directly or indirectly from the contractual relationship shall be the local court Amberg. Solely the laws of the Federal Republic of Germany shall apply for these terms and conditions.

Order:

1. By placing the order the customer declares his agreement with the above terms of delivery and payment.
2. Secondary agreements are only valid if confirmed in writing.
3. Should individual provisions in these terms of delivery and payment be or become either wholly or partially inoperative or invalid, the parties of the contract are obliged to agree to a new provision which to the greatest extent fulfills the intention of the inoperative or invalid provision.
4. The validity of these terms of delivery and payment is not affected in case individual provisions are nullified or become invalid.

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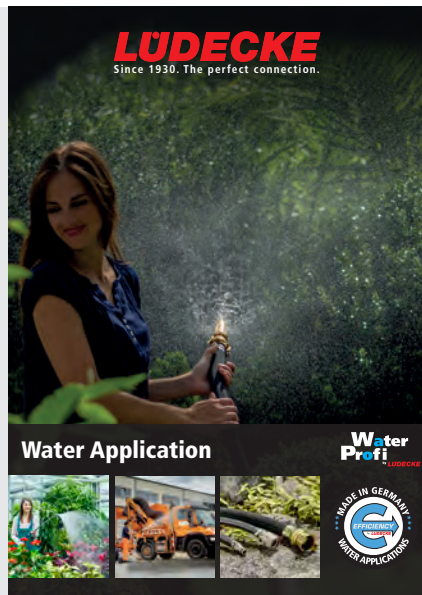
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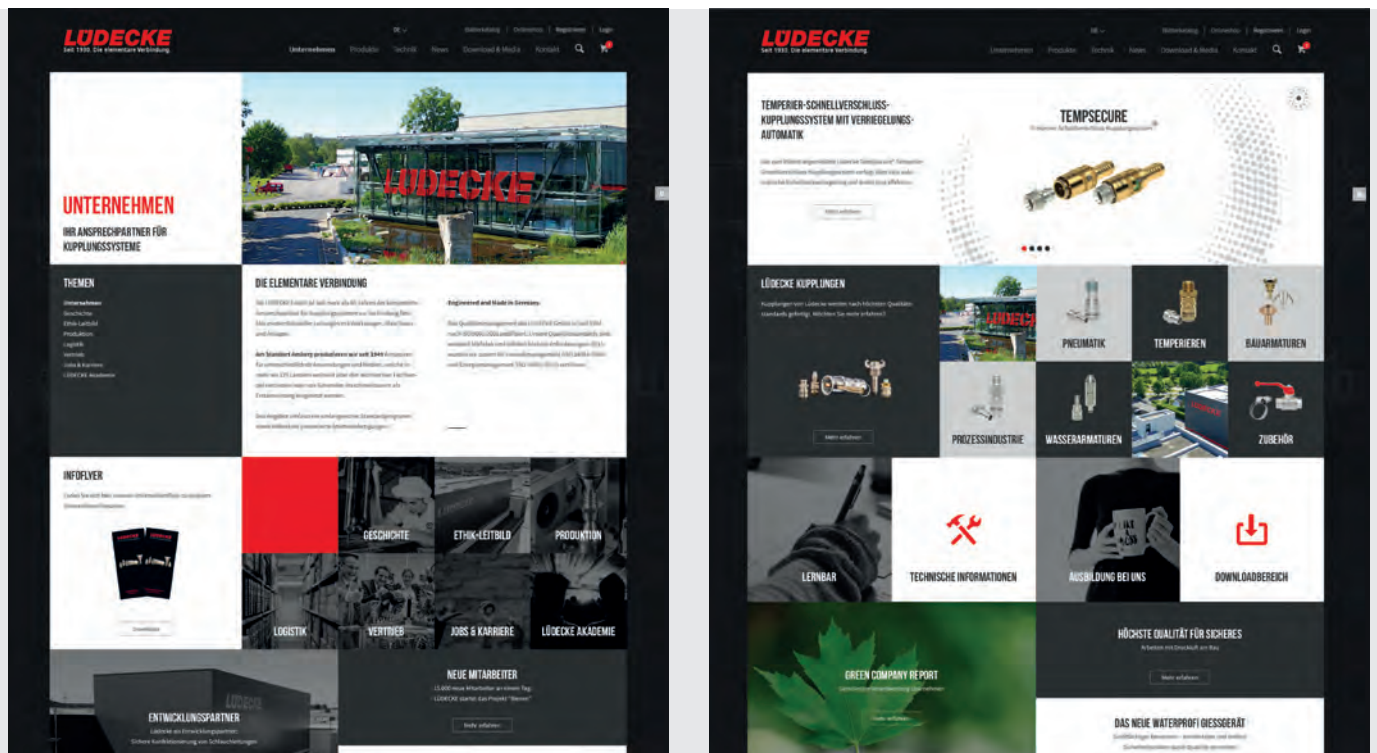
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