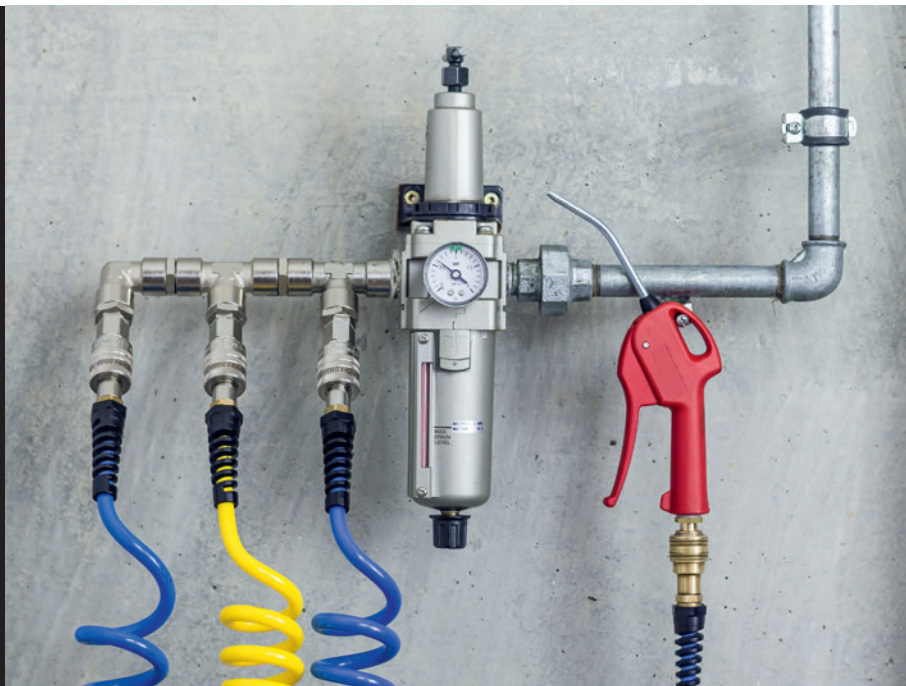




Pneumatics



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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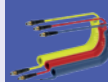
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Professional Compressed Air Supply



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 compressed air supply is essential for every industrial factory.

The versatile, high-quality **LUDECKE** quick connect coupling systems are ideally suited for compressed air applications of all kinds. They can be used to quickly connect/disconnect media-carrying lines to tools, machines and equipment.

Advantages:

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

Broad Range

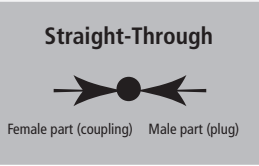
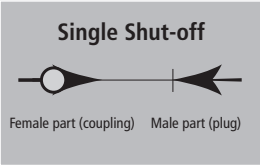
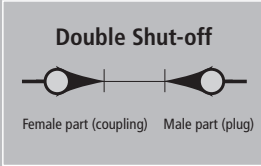
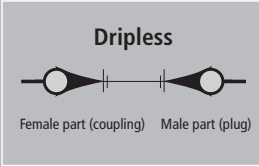
The **LUDECKE** product range contains a large selection of European and International plug profiles. They cover the world's most common plug profiles and ensure high compatibility.

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



Valve Designs

The **LUDECKE** quick connect couplings 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: media will leak from the coupling and plug line	Single Shut-off  Female part (coupling) Male part (plug) • Straight-through plug • Coupling with valve • During disconnection: media might leak from the plug line	Double Shut-off  Female part (coupling) Male part (plug) • Valves on both sides (male/ female) • During disconnection: media will stay in the hose of both connection lines, constant pressure is maintained • Valve construction designed for media flow from coupling to plug	Dripless  Female part (coupling) Male part (plug) • Valves on both sides (male/ female) - without dead space volume • During disconnection: only a minimal film of the media will leak (no drops will form)
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Materials

For all products, **LUDECKE** only uses premium materials which are customised to the application.

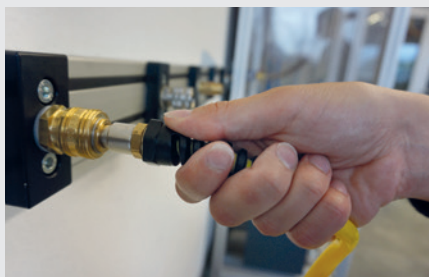
Brass (plain/ nickel-plated) Most of the LUDECKE quick connect couplings consist of brass MS 58 (machining brass). It is a very sturdy material which guarantees high durability and is perfectly suited for galvanization (nickel, chrome).	Steel (machining steel) If products are used under tough conditions (i.e. in foundries), they need to be manufactured out of machining steel (hardened, nickel-plated or zinc-plated). This material has good case-hardening properties and a long lifetime.
Stainless steel For applications with specific hygiene standards or when conveying various difficult media, quick connect couplings made of stainless steel are required. For further information please refer to our program for the processing industry.	Seals Depending on the application and/or requirement, LUDECKE offers various types of sealings made of NBR, EPDM, FKM or FFKM.

Connecting within Seconds

The **LUDECKE** quick connect couplings are extremely easy to handle.



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



To disconnect, pull back the sleeve of the coupling (comes with automatic locking mechanism in shut-off couplings and plugs)

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 demands, **LUDECKE** offers three different lines of quick connect coupling systems with European plug profiles.

Quality-Line Unlimited Flexibility



The **LUDECKE Quality-Line** provides high-class couplings in various sizes to cover all types of applications.

- Micro Quick Connect Couplings, Series ESMC DN 2.7
- Mini Quick Connect Couplings, Series ESM DN 5
- Quick Connect Couplings, Series ES DN 7.2

OptiFlow-Line Energy-Efficient Quick Connect Couplings



With our products from the **LUDECKE OptiFlow-Line**, you will receive energy-optimised coupling systems which achieve higher flow rates and significantly reduce energy consumption. This leads to decreasing energy costs as well as to increasing durability and lifetime of machines and tools.

→ For series ES11A DN 7.4 / ES12A DN 7.4 / ESI DN 7.8 / ESIK DN 7.8 / ESIS DN 7.8 / ESIFK DN 7.8 / ESIG DN 10 / ESG DN 19

SafeConnect-Line Quick Connect Couplings For High-Safety Standards

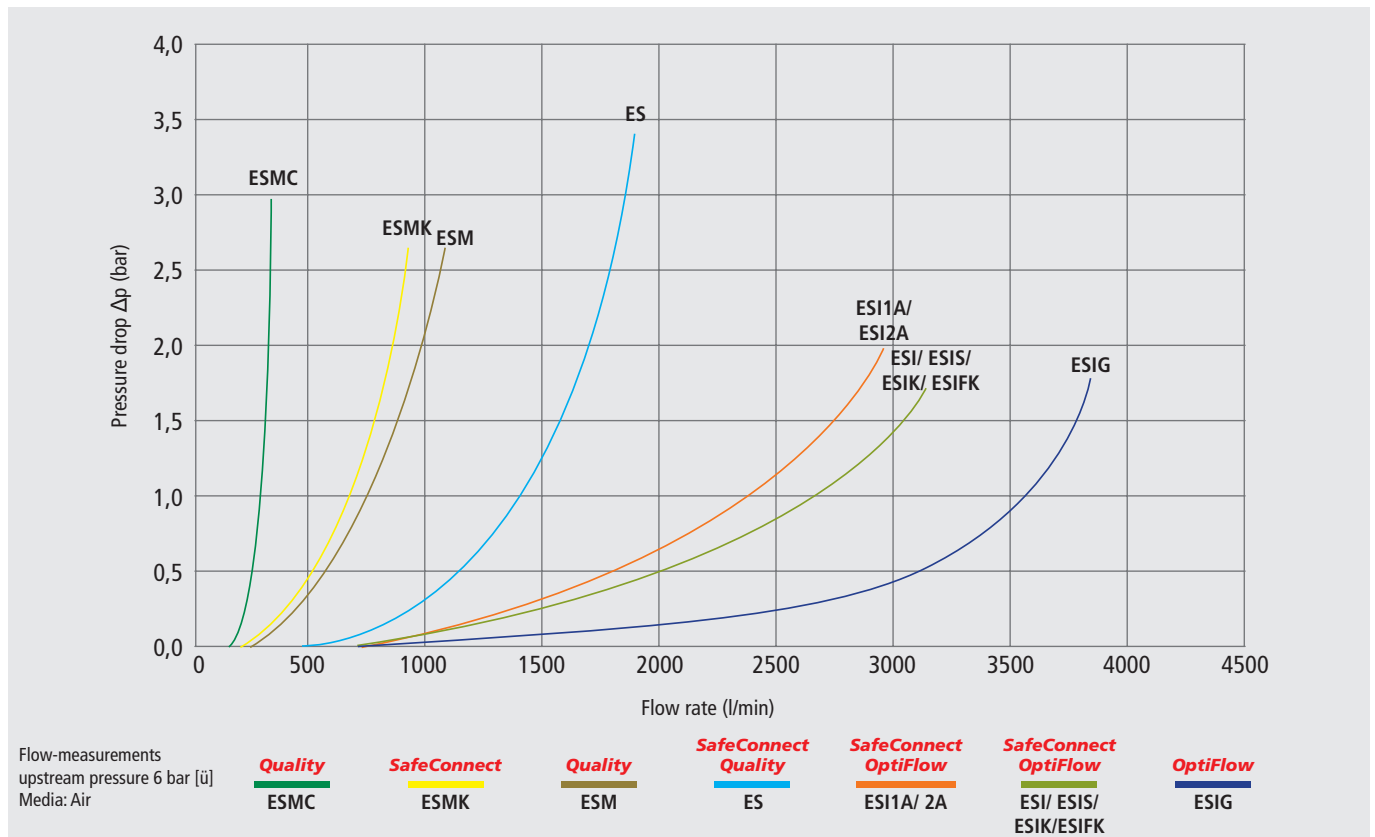


The **LUDECKE SafeConnect-Line** contains various coupling systems which provide a reliable protection against possible safety problems (e.g. whiplash-effect, high noise level, false coupling).

→ For series ESIS DN 7.8 / ES DN 7.2 / ESI DN 7.8 / ESIK DN 7.8 / ES11A DN 7.4 / ES12A DN 7.4 / ESMK DN 5 / ESIFK DN 7.8

Comparison Chart of Flow Rates

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



Testing Panel

To train and thoroughly test our quick connect couplings, we developed 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 how they work
- Testing high-quality products under real life conditions (the coupling procedure may be executed with media passing through the lines)
- Multilingual: German and English (on request, also in other languages)

Product Information

Functional Description

Application Possibilities (coupling)

Compressed Air Connection

Pressure of the panel is reduced to 3 bar for safety

We offer the testing panels at cost price.

If you are interested please contact our expert sales team.

Overview of Quick Connect Couplings with

Quality-Line

OptiFlow-Line

Series

ESMC
DN 2.7

ESM
DN 5

ES
DN 7.2

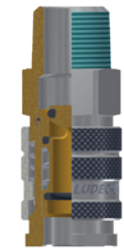
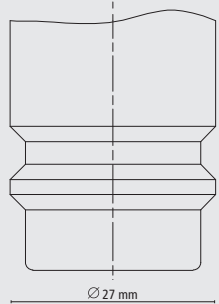
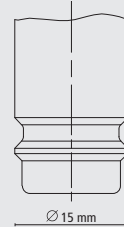
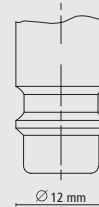
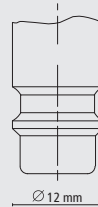
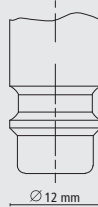
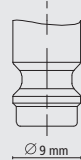
ESI
DN 7.8

ESIS*
DN 7.8

ESIG
DN 10

ESG
DN 19

Plug Profile
(original size)



Materials:

Body:	MS 58 (plain/n-plated)	MS 58 (plain/n-plated)	MS 58 (plain/n-plated)	MS 58 nickel-plated	MS 58 nickel-plated	MS 58 nickel-plated	MS 58 plain
Sleeve:	MS 58 (plain/n-plated)	MS 58 (plain/n-plated)	MS 58 (plain/n-plated)	Steel hardened + nickel-pl.	Steel hardened + nickel-pl.	Steel hardened + nickel-pl.	MS 58 plain
Valve Body:	MS 58 (plain/n-plated)	MS 58 (plain/n-plated)	MS 58 (plain/n-plated)	MS 58 nickel-plated	MS 58 nickel-plated	MS 58 nickel-plated	MS 58 plain
Valve:	MS 58 (plain/n-plated)	MS 58 (plain/n-plated)	MS 58 (plain/n-plated)	MS 58 plain	MS 58 plain	MS 58 plain	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	Stainless Steel 1.4310	Stainless Steel 1.4310
Balls:	Stainless Steel 1.3541	Stainless Steel 1.3541	-	Stainless Steel 1.4034	Stainless Steel 1.4034	Stainless Steel 1.4034	Stainless Steel 1.4034
Pins:	-	-	Stainless Steel 1.4305	-	-	-	-
Seals:	NBR	NBR	NBR	NBR	NBR	NBR	NBR
Special seals for other media on request:	EPDM, FKM, FFKM	EPDM, FKM, FFKM	EPDM, FKM, FFKM	EPDM, FKM, FFKM	EPDM, FKM, FFKM	EPDM, FKM	EPDM, FKM, FFKM
Plugs:	MS 58 (plain/nickel-plated)	MS 58 (plain/nickel-plated)/ steel zinc-plated	MS 58 (plain/nickel-plated)/ steel zinc-plated	Steel hardened + nickel-plated/ MS 58 nickel-plated	Steel hardened + nickel-plated	Steel hardened + nickel-plated	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 EN 10226/ DIN 13	ISO 228/ DIN EN 10226	ISO 228/ DIN EN 10226	ISO 228/ DIN EN 10226	ISO 228
Flow rate: at 6 bar [ü] and 0.5 bar pressure drop single shut-off	165 l/min	510 l/min	1100 l/min	2000 l/min	2000 l/min	3200 l/min	8000 l/min
Type of valve:	single/ double/ straight-through	single/ double/ straight-through	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
Interchange:	Parker Rectus Series 20	Parker Rectus Series 21	Parker Rectus Series 25/26 Cejn 320	Parker Rectus Series 25/26 Cejn 320	Parker Rectus Series 25/26 Cejn 320	Parker Rectus Series 27/41/1700 Cejn 410	Parker Rectus Series 39 Hansen 7000
Page:	32	37	43	54	68	59	62

European Plug Profiles

SafeConnect-Line

NEW!

ESIS*
DN 7.8

ES
DN 7.2

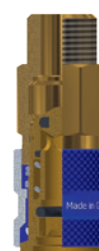
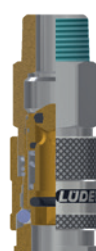
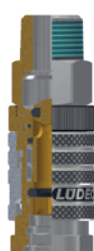
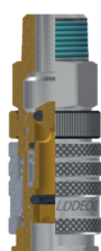
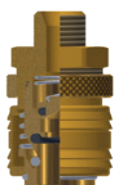
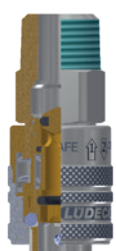
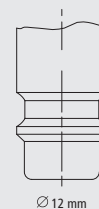
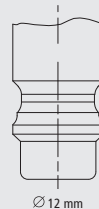
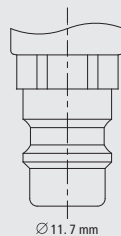
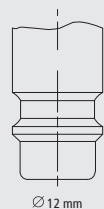
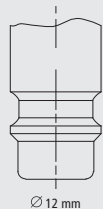
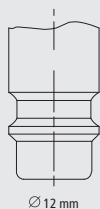
ESI*
DN 7.8

ESIK*
DN 7.8

ESI1A/2A*
DN 7.4

ESMK
DN 5

ESIFK*
DN 7.8



MS 58 nickel-plated	MS 58 plain	MS 58 nickel-plated	MS 58 nickel-plated	MS 58 nickel-plated	MS 58 plain	MS 58 plain
Steel hardened + nickel-pl.	MS 58 plain	Steel hardened + nickel-pl.	Steel hardened + nickel-pl.	MS 58 nickel-plated	Aluminium anodised	Aluminium anodised
MS 58 nickel-plated	MS 58 plain	MS 58 nickel-plated	MS 58 nickel-plated	MS 58 nickel-plated	MS 58 plain	MS 58 plain
MS 58 plain	MS 58 plain	MS 58 plain	MS 58 plain	MS 58 plain	MS 58 plain	MS 58 plain
Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310
Stainless Steel 1.4034	-	Stainless Steel 1.4034	Stainless Steel 1.4034	Stainless Steel 1.4034	Stainless Steel 1.3541	Stainless Steel 1.4034
-	Stainless Steel 1.4305	-	-	-	-	-
NBR	NBR	NBR	NBR	NBR	NBR	NBR
EPDM, FKM, FFKM	EPDM, FKM, FFKM	EPDM, FKM, FFKM	EPDM, FKM, FFKM	EPDM, FKM, FFKM	EPDM, FKM, FFKM	EPDM, FKM, FFKM
Steel hardened + nickel-plated	MS 58 (plain/nickel-plated)/steel zinc-plated	Steel hardened + nickel-plated	Steel hardened + nickel-plated	MS 58 nickel-plated	MS 58 plain with anodized aluminium ring	MS 58 plain with anodized aluminium ring
PN 12 bar	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar
-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
ISO 228/ DIN EN 10226	ISO 228	ISO 228/ DIN EN 10226	ISO 228/ DIN EN 10226	ISO 228/ DIN EN 10226	ISO 228	ISO 228
2000 l/min	1100 l/min	2000 l/min	2000 l/min	1800 l/min	500 l/min	2000 l/min
single	single	single	single	single	single/ double	single
One-Hand	One-Hand	One-Hand	One-Hand	Two-Hands	One-Hand	One-Hand
Parker Rectus Series 25/26 Cejn 320	Parker Rectus Series 25/26 Cejn 320	Parker Rectus Series 25/26 Cejn 320	Parker Rectus Series 25/26, Cejn 320 Steinco Series 125	Parker Rectus Series 95/96 Cejn 341/342	Parker Rectus Series 21	Parker Rectus Series 25 KA
68	69	70	72	74/ 75	76	80
Self-Venting	Sleeve Lock Mechanism			Visual Identification		

* SafeConnect-Line + OptiFlow-Line

Quality-Line

Unlimited Flexibility



With the **LUDECKE Quality-Line**, you will receive first-class coupling systems in various sizes which cover all types of applications: ranging from standard quick connect couplings to micro quick connect couplings.

It is a tried and tested portfolio - absolutely easy, quick and safe to handle.

The **LUDECKE Quality-Line** is suitable for numerous applications in pneumatics, compressed air supply, measurement and control technology.

Advantages:

- Tried and tested **LUDECKE** quality
- Extremely broad product range within the single series with different:
 - Materials (brass plain/ nickel-plated)
 - Valve types (single/ double/ straight-through)
 - Connection types (male thread, female thread, hose barb, squeeze nut)
- Quick and easy solutions for standard applications

Different Sizes and Versions

The products of the **LUDECKE Quality-Line** are available in different versions.

On request, we also provide the coupling series ESMC and ESM with coloured anodized aluminium sleeves.

The original

Micro Quick Connect Couplings

- Series with smallest dimensions
- For use in very tight spaces

Series:
ESMC DN 2.7



Mini Quick Connect Couplings

- Series with reduced dimensions
- For use in tight spaces
- Available as dripless version

Series:
ESM DN 5



Quick Connect Couplings

- Series with standard dimensions

Series:
ES DN 7.2



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

With its quick connect coupling system ES DN 7.2, **LUDECKE** offers a high-quality, extremely robust as well as tried and tested product.



Advantages:

- Original solid design: This means there will be no future savings in material
- Suitable for low vacuum at low couple force compared to all other compatible products
- Closed sleeve design protects the coupling from dirt
- High-class seals (no reduced O-ring seals): stays leakage-proof even at steep tilting moments of the plug

The original

Flexibility at its best:

There's no other quick connect coupling system, offering such an extensive selection of connection, adapter and distributor versions.



Functional Principle

All the quick connect couplings from our **Quality-Line** work according to the common coupling principle of one-hand quick connect couplings.



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



To disconnect, pull back the sleeve from the coupling (comes with automatic locking mechanism in shut-off couplings).

Micro Quick Connect Couplings

Series ESMC single shut-off

DN 2.7



Also in Stainless Steel
Series ESMCE
Page 286

- One-hand quick connect couplings with smallest dimensions made of brass MS 58 plain/ nickel-plated
- Suitable for low vacuum at low couple force compared to all other compatible products
- On request, couplings also available with coloured anodised aluminium sleeves
- Can be used in multiple applications in pneumatics, measure, control and regulation technology

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- Seals: NBR (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	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 / Others	Europe	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
M 5 m	26	9	10.5	5	9	ESMCN 5 A	ESMC 5 A
G 1/8 m	28	11	10.5	7	12	ESMCN 18 A	ESMC 18 A

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
M 5 f	26	9	10.5	5	10	ESMCN 5 I	ESMC 5 I
G 1/8 f	28	12	10.5	7	14	ESMCN 18 I	ESMC 18 I

Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 3	35	10.5	13	9	ESMCN 3 T	ESMC 3 T
Hose i.D. 4	35	10.5	13	10	ESMCN 4 T	ESMC 4 T
Hose i.D. 5	35	10.5	13	10	ESMCN 5 T	ESMC 5 T

For hose clips type ZOS (© page 130) or type HS (© page 131)

Couplings with hose squeeze nut

Hose connection	L	SW	D	Weight	Type No. n. plated	Type No. plain
Hose 3x4	33	9	10.5	15	ESMCN 34 TQ	ESMC 34 TQ
Hose 3x5	33	9	10.5	15	ESMCN 3 TQ	ESMC 3 TQ
Hose 4x6	32	9	10.5	15	ESMCN 4 TQ	ESMC 4 TQ

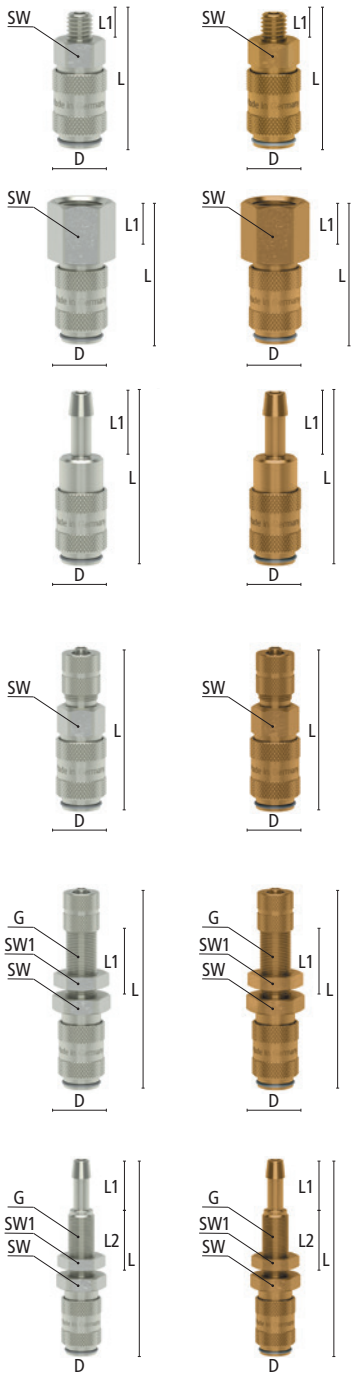
Couplings with hose squeeze nut and bulkhead screwing

Hose connect.	L	SW	D	L1	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose 3x4	45	12	10.5	17	11	M 7x0.5 m	26	ESMCN 34 TQSV	ESMC 34 TQSV
Hose 3x5	45	12	10.5	17	11	M 7x0.5 m	26	ESMCN 35 TQSV	ESMC 35 TQSV
Hose 4x6	45	12	10.5	17	12	M 8x0.5 m	26	ESMCN 4 TQSV	ESMC 4 TQSV

For hose clips type ZOS (© page 130) or type HS (© page 131)

Couplings with hose barb and bulkhead screwing

Hose connect.	L	SW	D	L1	L2	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 3	51	12	10.5	13	17	11	M 7x0.5 m	24	ESMCN 3 TSV	ESMC 3 TSV
Hose i.D. 4	51	12	10.5	13	17	11	M 7x0.5 m	24	ESMCN 4 TSV	ESMC 4 TSV
Hose i.D. 5	51	12	10.5	13	17	12	M 8x0.5 m	24	ESMCN 5 TSV	ESMC 5 TSV

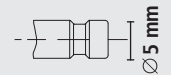


Micro Quick Connect Couplings

single shut-off **Series ESMC**

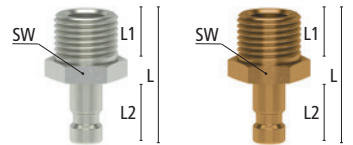
DN 2.7

Plug Profile (original size)



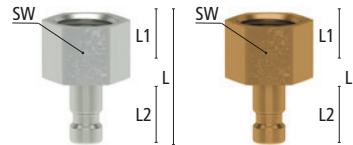
Plugs with male thread

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



Plugs with female thread

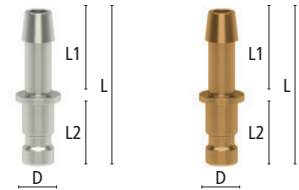
Thread connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
M 5 f	17	7	5	10	3	ESMCN 5 NI	ESMC 5 NI
G 1/8 f	19	12	7	10	6	ESMCN 18 NI	ESMC 18 NI



Plugs with hose barb

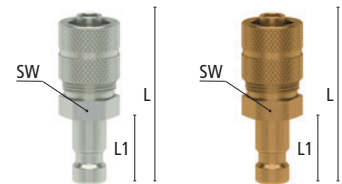
Hose connection	L	D	L1	L2	Weight	Type No. n. plated	Type No. plain
Hose i.D. 3	24	7	13	10	2	ESMCN 3 S	ESMC 3 S
Hose i.D. 4	24	7	13	10	3	ESMCN 4 S	ESMC 4 S
Hose i.D. 5	24	9	13	10	3	ESMCN 5 S	ESMC 5 S

For hose clips type ZOS (© page 130) or type HS (© page 131)



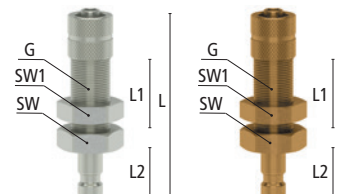
Plugs with hose squeeze nut

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



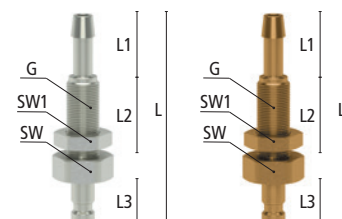
Plugs with hose squeeze nut and bulkhead screwing

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



Plugs with hose barb and bulkhead screwing

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



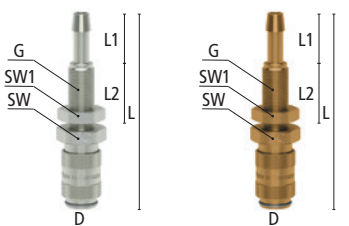
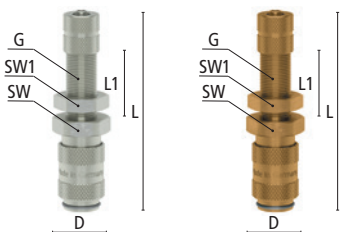
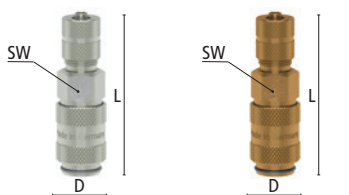
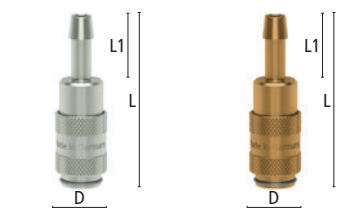
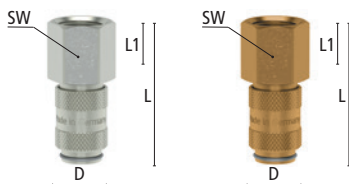
Micro Quick Connect Couplings

Series ESMC double shut-off

DN 2.7



Also in Stainless Steel
Series ESMCE
Page 288



- One-hand quick connect couplings with smallest dimensions made of brass MS 58 plain/ nickel-plated
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Suitable for low vacuum at low couple force compared to all other compatible products
- On request, couplings also available with coloured anodised aluminium sleeves
- Attention: Couplings can be connected with straight-through plugs DN 2.7. However, double shut-off plugs cannot be connected with standard couplings DN 2.7
- Can be used in multiple applications in pneumatics, measure, control and regulation technology

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- Seals: NBR (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	2.7	ISO 228 / DIN 13	155 l/min	One-hand	Double shut-off	Air / Others	Europe	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
M 5 m	26	9	10.5	5	9	ESMCN 5 AAB	ESMC 5 AAB
G 1/8 m	28	11	10.5	7	12	ESMCN 18 AAB	ESMC 18 AAB

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
M 5 f	26	9	10.5	5	10	ESMCN 5 IAB	ESMC 5 IAB
G 1/8 f	28	12	10.5	7	14	ESMCN 18 IAB	ESMC 18 IAB

Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 3	35	10.5	13	9	ESMCN 3 TAB	ESMC 3 TAB
Hose i.D. 4	35	10.5	13	10	ESMCN 4 TAB	ESMC 4 TAB
Hose i.D. 5	35	10.5	13	10	ESMCN 5 TAB	ESMC 5 TAB

For hose clips type ZOS (© page 130) or type HS (© page 131)

Couplings with hose squeeze nut

Hose connection	L	SW	D	Weight	Type No. n. plated	Type No. plain
Hose 3x4	33	9	10.5	15	ESMCN 34 TQAB	ESMC 34 TQAB
Hose 3x5	33	9	10.5	15	ESMCN 3 TQAB	ESMC 3 TQAB
Hose 4x6	32	9	10.5	15	ESMCN 4 TQAB	ESMC 4 TQAB

Couplings with hose squeeze nut and bulkhead screwing

Hose connect.	L	SW	D	L1	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose 3x4	45	12	10.5	17	11	M 7x0.5 m	26	ESMCN 34 TQSVAB	ESMC 34 TQSVAB
Hose 3x5	45	12	10.5	17	11	M 7x0.5 m	26	ESMCN 35 TQSVAB	ESMC 35 TQSVAB
Hose 4x6	45	12	10.5	17	12	M 8x0.5 m	26	ESMCN 4 TQSVAB	ESMC 4 TQSVAB

For hose clips type ZOS (© page 130) or type HS (© page 131)

Couplings with hose barb and bulkhead screwing

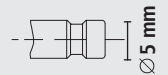
Hose connect.	L	SW	D	L1	L2	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 3	51	12	10.5	13	17	11	M 7x0.5 m	24	ESMCN 3 TSVAB	ESMC 3 TSVAB
Hose i.D. 4	51	12	10.5	13	17	11	M 7x0.5 m	24	ESMCN 4 TSVAB	ESMC 4 TSVAB
Hose i.D. 5	51	12	10.5	13	17	12	M 8x0.5 m	24	ESMCN 5 TSVAB	ESMC 5 TSVAB

Micro Quick Connect Couplings

double shut-off **Series ESMC**

DN 2.7

Plug Profile (original size)



Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
M 5 m	28	7	5	10	8	ESMCN 5 NAAB	ESMC 5 NAAB
G 1/8 m	30	11	7	10	10	ESMCN 18 NAAB	ESMC 18 NAAB

Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
M 5 f	27	7	5	10	8	ESMCN 5 NIAB	ESMC 5 NIAB
G 1/8 f	29	12	7	10	10	ESMCN 18 NIAB	ESMC 18 NIAB

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No. n. plated	Type No. plain
Hose i.D. 3	37	9	13	10	6	ESMCN 3 SAB	ESMC 3 SAB
Hose i.D. 4	37	9	13	10	7	ESMCN 4 SAB	ESMC 4 SAB
Hose i.D. 5	37	9	13	10	7	ESMCN 5 SAB	ESMC 5 SAB

For hose clips type ZOS (© page 130) or type HS (© page 131)

Plugs with hose squeeze nut

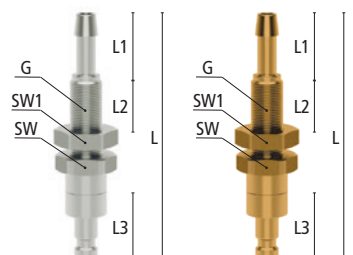
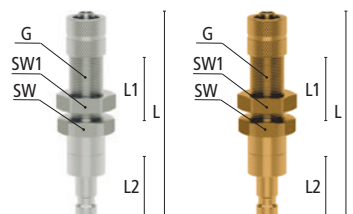
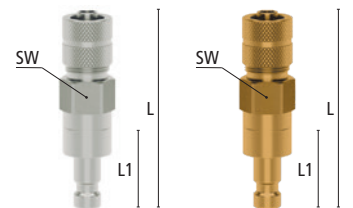
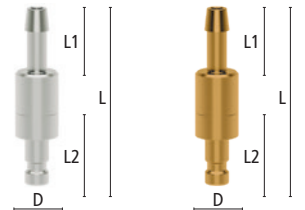
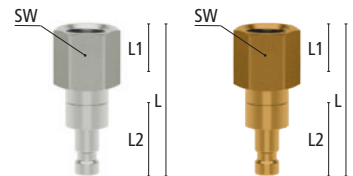
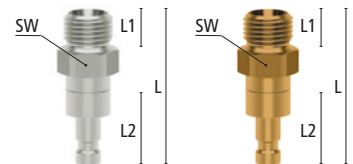
Hose connection	L	SW	L1	Weight	Type No. n. plated	Type No. plain
Hose 3x4	34	9	10	10	ESMCN 34 SQAB	ESMC 34 SQAB
Hose 3x5	34	9	10	10	ESMCN 3 SQAB	ESMC 3 SQAB
Hose 4x6	34	9	10	10	ESMCN 4 SQAB	ESMC 4 SQAB

Plugs with hose squeeze nut and bulkhead screwing

Hose connection	L	SW	L1	L2	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose 3x4	47	12	17	10	11	M 7x0.5 m	17	ESMCN 34 SQSVAB	ESMC 34 SQSVAB
Hose 3x5	47	12	17	10	11	M 7x0.5 m	17	ESMCN 35 SQSVAB	ESMC 35 SQSVAB
Hose 4x6	47	12	17	10	12	M 8x0.5 m	17	ESMCN 4 SQSVAB	ESMC 4 SQSVAB

Plugs with hose barb and bulkhead screwing

Hose connection	L	SW	L1	L2	L3	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 3	53	12	13	17	10	11	M 7x0.5 m	16	ESMCN 3 SSVAB	ESMC 3 SSVAB
Hose i.D. 4	53	12	13	17	10	11	M 7x0.5 m	16	ESMCN 4 SSVAB	ESMC 4 SSVAB
Hose i.D. 5	53	12	13	17	10	12	M 8x0.5 m	16	ESMCN 5 SSVAB	ESMC 5 SSVAB



Micro Quick Connect Couplings

Series ESMC straight-through

DN 2.7



Also in Stainless Steel
Series ESMCE
Page 290

- One-hand quick connect couplings with smallest dimensions made of brass MS 58 plain/ nickel-plated
- Straight-through passage for optimised flow capacity, particularly for water/ liquid applications
- Please connect with plug series ESMC DN 2.7 with straight-through passage (page 33)
- Suitable for low vacuum at low couple force compared to all other compatible products
- On request, couplings also available with coloured anodised aluminium sleeves
- Can be used in multiple applications in pneumatics, measure, control and regulation technology

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- Seals: NBR (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	2.7	ISO 228 / DIN 13	170 l/min	One-hand	Straight-through	Air / Others	Europe	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
M 5 m	26	9	10.5	5	9	ESMCN 5 AO	ESMC 5 AO
G 1/8 m	28	11	10.5	7	12	ESMCN 18 AO	ESMC 18 AO

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
M 5 f	26	9	10.5	5	10	ESMCN 5 IO	ESMC 5 IO
G 1/8 f	28	12	10.5	7	14	ESMCN 18 IO	ESMC 18 IO

Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 3	35	10.5	13	9	ESMCN 3 TO	ESMC 3 TO
Hose i.D. 4	35	10.5	13	10	ESMCN 4 TO	ESMC 4 TO
Hose i.D. 5	35	10.5	13	10	ESMCN 5 TO	ESMC 5 TO

For hose clips type ZOS (© page 130) or type HS (© page 131)

Couplings with hose squeeze nut

Hose connection	L	SW	D	Weight	Type No. n. plated	Type No. plain
Hose 3x4	33	9	10.5	15	ESMCN 34 TQO	ESMC 34 TQO
Hose 3x5	33	9	10.5	15	ESMCN 3 TQO	ESMC 3 TQO
Hose 4x6	32	9	10.5	15	ESMCN 4 TQO	ESMC 4 TQO

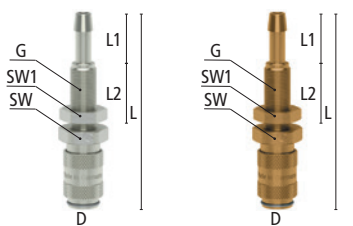
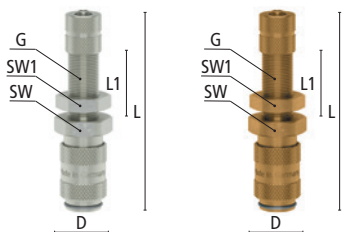
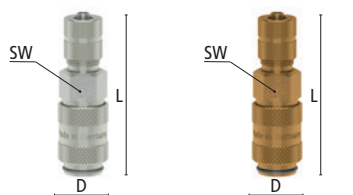
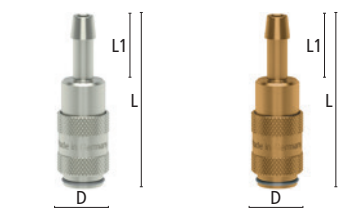
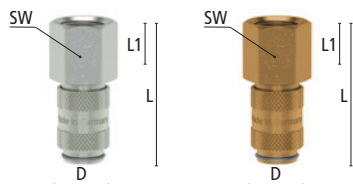
Couplings with hose squeeze nut and bulkhead screwing

Hose connect.	L	SW	D	L1	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose 3x4	45	12	10.5	17	11	M 7x0.5 m	26	ESMCN 34 TQSVO	ESMC 34 TQSVO
Hose 3x5	45	12	10.5	17	11	M 7x0.5 m	26	ESMCN 35 TQSVO	ESMC 35 TQSVO
Hose 4x6	45	12	10.5	17	12	M 8x0.5 m	26	ESMCN 4 TQSVO	ESMC 4 TQSVO

For hose clips type ZOS (© page 130) or type HS (© page 131)

Couplings with hose barb and bulkhead screwing

Hose connect.	L	SW	D	L1	L2	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 3	51	12	10.5	13	17	11	M 7x0.5 m	24	ESMCN 3 TSVO	ESMC 3 TSVO
Hose i.D. 4	51	12	10.5	13	17	11	M 7x0.5 m	24	ESMCN 4 TSVO	ESMC 4 TSVO
Hose i.D. 5	51	12	10.5	13	17	12	M 8x0.5 m	24	ESMCN 5 TSVO	ESMC 5 TSVO



Mini Quick Connect Couplings

single shut-off **Series ESM**

- One-hand quick connect couplings with reduced dimensions made of brass MS 58 plain/ nickel-plated
- Suitable for low vacuum at low couple force compared to all other compatible products
- On request, couplings also available with coloured anodised aluminium sleeves
- Can be used in multiple applications in pneumatics, measure, control and regulation technology

Materials

- Body, sleeve, valve body, valve: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)
- 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 Rate	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 / Others	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	16	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 sealing ring type HPD (© page 212)

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 f	38	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	39.5	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 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

Couplings with squeeze nut

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

Couplings with squeeze nut and spring guard

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

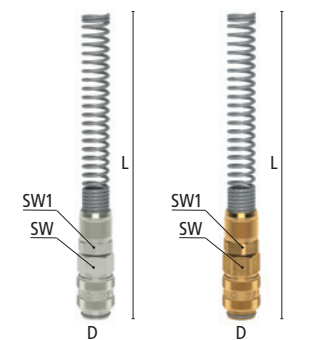
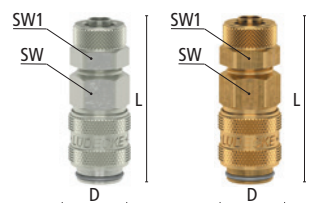
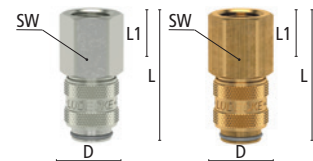
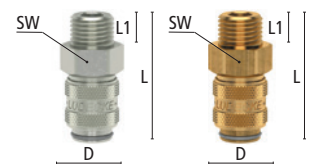
Additional special versions on request.

DN 5



Also in Stainl. Steel
Series ESME
Page 291

Also as
dripless version
Series ESMLA
Page 291

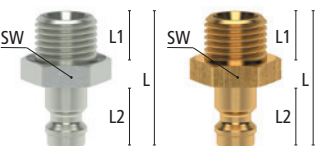
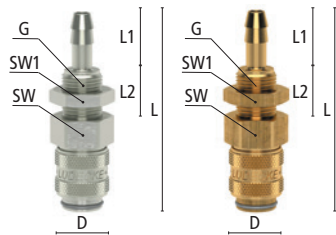
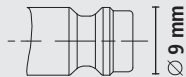


Mini Quick Connect Couplings

Series ESM single shut-off

DN 5

Plug Profile (original size)



Bulkhead couplings

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 TSV	ESM 4 TSV
Hose i.D. 6	60	17	16	17	14	17	M 12x1 m	45	ESMN 6 TSV	ESM 6 TSV
Hose i.D. 9	60	17	16	17	14	19	M 12x1 m	47	ESMN 9 TSV	ESM 9 TSV

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

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

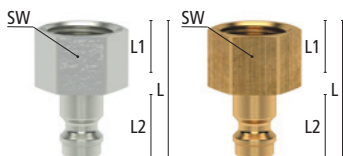
Plugs with male thread

Thread connection	L	SW	L1	L2	Material	Weight	Type No. n. plated	Type No. plain
G 1/8 m	25	13	7	14	MS 58	11	ESMN 18 NA	ESM 18 NA
G 1/4 m	27.5	17	9	14	MS 58	18	ESMN 14 NA	ESM 14 NA
G 3/8 m	27.5	19	9	14	MS 58	21	ESMN 38 NA	ESM 38 NA
M 10x1 m	26	13	8	14	MS 58	11	ESMN 101 NA	ESM 101 NA
M 12x1.5 m	28.5	17	10	14	MS 58	18	ESMN 121 NA	ESM 121 NA
M 14x1.5 m	28.5	17	10	14	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 sealing ring type HPD (© page 212)

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	MS 58	12	ESMN 18 NI	ESM 18 NI
G 1/4 f	26	17	10	14	MS 58	18	ESMN 14 NI	ESM 14 NI
G 3/8 f	26.5	19	10.5	14	MS 58	22	ESMN 38 NI	ESM 38 NI
M 6 f	22.5	12	8	14	MS 58	11	ESMN 6 NI	ESM 6 NI
M 8 f	24	12	10	14	MS 58	11	ESMN 8 NI	ESM 8 NI
M 10x1 f	22.5	13	7	14	MS 58	10	ESMN 101 NI	ESM 101 NI
M 12x1.5 f	25	17	9	14	MS 58	19	ESMN 121 NI	ESM 121 NI
M 14x1.5 f	25	17	9	14	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

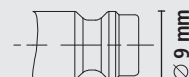


Mini Quick Connect Couplings

single shut-off **Series ESM**

DN 5

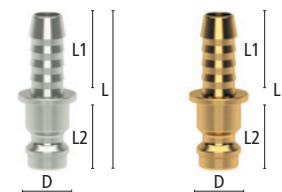
Plug Profile (original size)



Plugs with hose barb

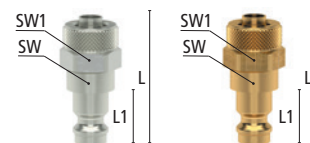
Hose connection	L	D	L1	L2	Material	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	32	9	16.5	14	MS 58	7	ESMN 4 S	ESM 4 S
Hose i.D. 5	32	12	16.5	14	MS 58	8	ESMN 5 S	ESM 5 S
Hose i.D. 6	32	12	16.5	14	MS 58	8	ESMN 6 S	ESM 6 S
Hose i.D. 8	32	12	16.5	14	MS 58	12	ESMN 8 S	ESM 8 S
Hose i.D. 9	38	12	23	14	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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



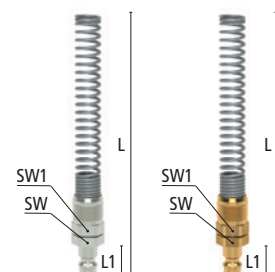
Plugs with squeeze nut

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

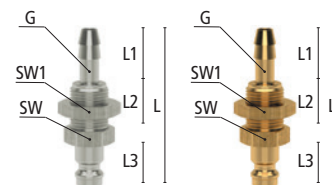
Hose connection	L	SW	L1	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	90	12	14	11	24	ESMN 35 SQF	ESM 35 SQF
Hose 4x6	110	-	14	12	26	ESMN 4 SQF	ESM 4 SQF
Hose 6x8	120	-	14	14	29	ESMN 6 SQF	ESM 6 SQF



Plugs with bulkhead screwing

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

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



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

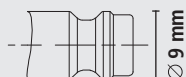


Mini Quick Connect Couplings

Series ESM double shut-off

DN 5

Plug Profile (original size)



Also in Stainless Steel
Series ESME
Page 293

- One-hand quick connect couplings with reduced dimensions made of brass MS 58 plain/ nickel-plated
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Suitable for low vacuum at low couple force compared to all other compatible products
- On request, couplings also available with coloured anodised aluminium sleeves
- **Attention:** Couplings can be connected with straight-through plugs DN 5. However, double shut-off plugs cannot be connected with standard 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/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	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 / Others	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 sealing ring type HPD (☺ page 212)

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 f	38	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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Couplings with squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	42	14	16	-	32	ESMN 35 TQAB	ESM 35 TQAB
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

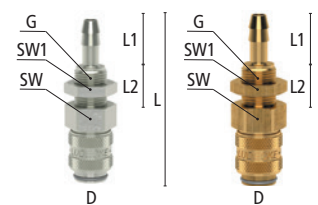
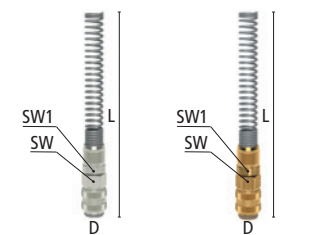
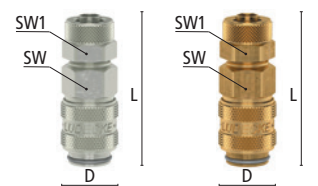
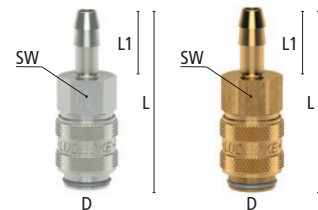
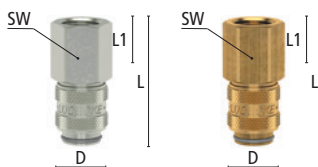
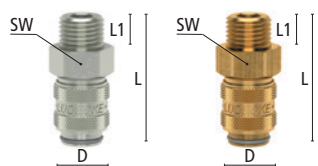
Couplings with squeeze nut and spring guard

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	100	14	16	11	39	ESMN 35 TQFAB	ESM 35 TQFAB
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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

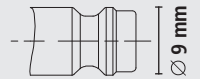


Mini Quick Connect Couplings

double shut-off **Series ESM**

DN 5

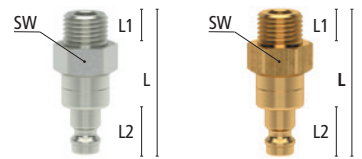
Plug Profile (original size)



Plugs with male thread

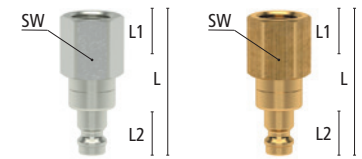
Thread connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
G 1/8 m	40	13	7	14	26	ESMN 18 NAAB	ESM 18 NAAB
G 1/4 m	42	17	9	14	35	ESMN 14 NAAB	ESM 14 NAAB
G 3/8 m	42	19	9	14	42	ESMN 38 NAAB	ESM 38 NAAB
M 10x1 m	40	14	7	14	25	ESMN 101 NAAB	ESM 101 NAAB
M 12x1.5 m	44	17	10	14	35	ESMN 121 NAAB	ESM 121 NAAB
M 14x1.5 m	44	17	10	14	36	ESMN 141 NAAB	ESM 141 NAAB

Male thread sealing with PVC sealing ring type HPD (☺ page 212)



Plugs with female thread

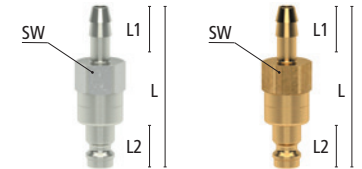
Thread connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
G 1/8 f	42	13	9	14	28	ESMN 18 NIAB	ESM 18 NIAB
G 1/4 f	42	17	10	14	38	ESMN 14 NIAB	ESM 14 NIAB
G 3/8 f	43.5	19	10.5	14	38	ESMN 38 NIAB	ESM 38 NIAB
M 10x1 f	42	14	9	14	28	ESMN 101 NIAB	ESM 101 NIAB
M 12x1.5 f	42	17	9	14	37	ESMN 121 NIAB	ESM 121 NIAB
M 14x1.5 f	42	17	9	14	38	ESMN 141 NIAB	ESM 141 NIAB



Plugs with hose barb

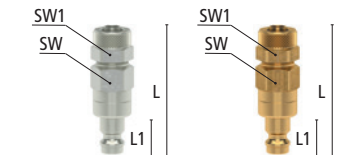
Hose connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	50	14	17	14	23	ESMN 4 SAB	ESM 4 SAB
Hose i.D. 6	50	14	17	14	23	ESMN 6 SAB	ESM 6 SAB
Hose i.D. 8	50	14	17	14	25	ESMN 8 SAB	ESM 8 SAB
Hose i.D. 9	50	14	17	14	25	ESMN 9 SAB	ESM 9 SAB

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



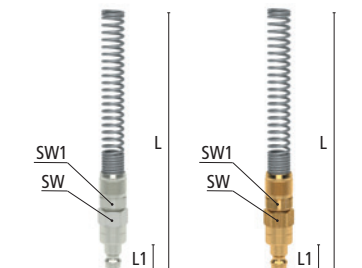
Plugs with squeeze nut

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

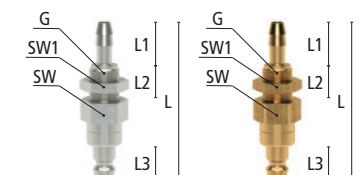
Hose connection	L	SW	L1	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	135	14	14	12	40	ESMN 4 SQFAB	ESM 4 SQFAB
Hose 6x8	135	14	14	14	42	ESMN 6 SQFAB	ESM 6 SQFAB



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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

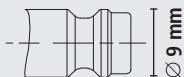


Mini Quick Connect Couplings

Series ESM straight-through

DN 5

Plug Profile (original size)



Also in Stainless Steel
Series ESME
Page 295

- One-hand quick connect couplings with reduced dimensions made of brass MS 58 plain/ nickel-plated
- Straight-through passage for optimised flow capacity, particularly for water/ liquid applications
- Please connect with plug series ESM DN 5 with straight-through passage (page 38)
- Suitable for low vacuum at low couple force compared to all other compatible products
- On request, couplings also available with coloured anodised aluminium sleeves
- Can be used in multiple applications in pneumatics, measure, control and regulation technology

Materials

- Body, sleeve, valve body, valve: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)
- 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 Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5	ISO 228 / DIN 13	620 l/min	One-hand	straight-through	Air / Others	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 AO	ESM 18 AO
G 1/4 m	38	17	16	9	36	ESMN 14 AO	ESM 14 AO
G 3/8 m	38	19	16	9	43	ESMN 38 AO	ESM 38 AO
M 10x1 m	37	14	16	7	35	ESMN 101 AO	ESM 101 AO
M 12x1.5 m	39	17	16	10	37	ESMN 121 AO	ESM 121 AO
M 14x1.5 m	39	17	16	10	37	ESMN 141 AO	ESM 141 AO

Male thread sealing with PVC sealing ring type HPD (☺ page 212)

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 IO	ESM 18 IO
G 1/4 f	38	17	16	9	38	ESMN 14 IO	ESM 14 IO
G 3/8 f	39.5	19	16	10.5	39	ESMN 38 IO	ESM 38 IO
M 10x1 f	38	14	16	9	34	ESMN 101 IO	ESM 101 IO
M 12x1.5 f	38	17	16	9	39	ESMN 121 IO	ESM 121 IO
M 14x1.5 f	38	17	16	9	37	ESMN 141 IO	ESM 141 IO

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 TO	ESM 4 TO
Hose i.D. 5	46	16	17	27	ESMN 5 TO	ESM 5 TO
Hose i.D. 6	46	16	17	27	ESMN 6 TO	ESM 6 TO
Hose i.D. 8	46	16	17	29	ESMN 8 TO	ESM 8 TO
Hose i.D. 9	46	16	17	29	ESMN 9 TO	ESM 9 TO

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Couplings with squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	43	14	16	12	32	ESMN 35 TQO	ESM 35 TQO
Hose 4x6	43	14	16	12	32	ESMN 4 TQO	ESM 4 TQO
Hose 6x8	43	14	16	14	34	ESMN 6 TQO	ESM 6 TQO

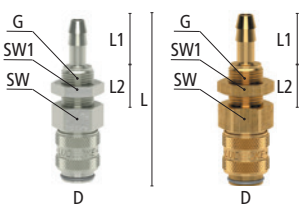
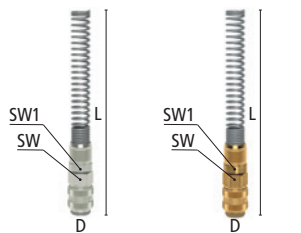
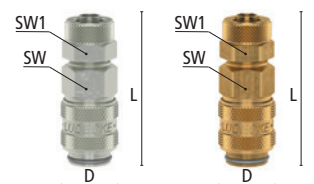
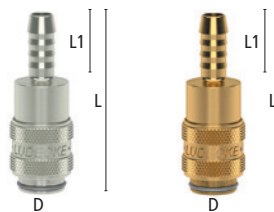
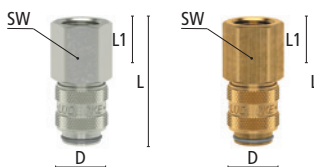
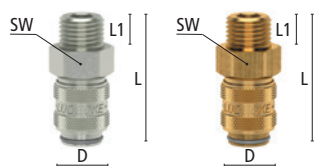
Couplings with squeeze nut and spring guard

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	120	14	16	12	39	ESMN 35 TQFO	ESM 35 TQFO
Hose 4x6	120	14	16	12	39	ESMN 4 TQFO	ESM 4 TQFO
Hose 6x8	130	14	16	14	44	ESMN 6 TQFO	ESM 6 TQFO

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 TSVO	ESM 4 TSVO
Hose i.D. 6	60	17	16	17	14	17	M 12x1 m	45	ESMN 6 TSVO	ESM 6 TSVO
Hose i.D. 9	60	17	16	17	14	19	M 12x1 m	47	ESMN 9 TSVO	ESM 9 TSVO

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



- One-hand quick connect couplings made of brass MS 58 plain/ nickel-plated
- Suitable for low vacuum at low couple force compared to all other compatible products
- Closed sleeve design protects the coupling from dirt
- For compressed air supply in industry, handcrafts, hobby as well as for water and other media

Materials

- Body, sleeve, valve body, valve: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)
- 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 Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.2	ISO 228/ DIN EN 10226/ DIN 13	1100 l/min	One-hand	Single shut-off	Air / Others	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 sealing ring type HPD (☺ page 212)

Couplings with tapered/ cylindrical male thread, environmentally friendly 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

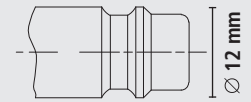
Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 f	39	22	27	9	90	ESN 18 I	ES 18 I
G 1/4 f	41	22	27	10.5	92	ESN 14 I	ES 14 I
G 3/8 f	41	22	27	10.5	85	ESN 38 I	ES 38 I
G 1/2 f	42.5	24	27	12	87	ESN 12 I	ES 12 I
G 3/4 f	43.5	32	27	13	110	ESN 34 I	ES 34 I
M 14x1.5 f	41.5	22	27	11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

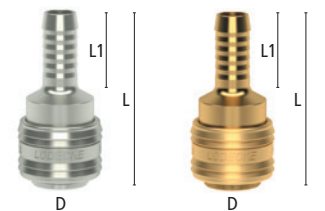
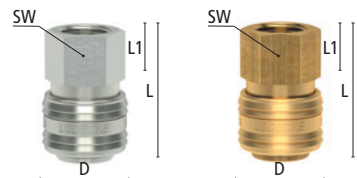
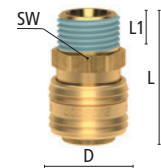
Hose connection	L	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 6	55	27	23	64	ESN 6 T	ES 6 T
Hose i.D. 8	55	27	24	67	ESN 8 T	ES 8 T
Hose i.D. 9	55	27	24	68	ESN 9 T	ES 9 T
Hose i.D. 10	58	27	28	70		ES 10 TH*
Hose i.D. 10	55	27	24	70	ESN 10 T	ES 10 T
Hose i.D. 13	58	27	28	75		ES 13 TH*
Hose i.D. 13	55	27	25	75	ESN 13 T	ES 13 T

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

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

DN 7.2**Plug Profile (original size)**

Also in Stainless Steel
Series ESE
Page 296

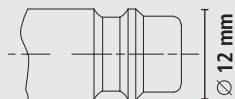


Quick Connect Couplings The original

Series ES single shut-off

DN 7.2

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	NEW! ESN 58 TQF*	ES 58 TQF*
Hose 6x8	130	22	27	14	90	ESN 6 TQF	ES 6 TQF
Hose 6.5x10	130	22	27	17	95	NEW! ESN 6510 TQF*	ES 6510 TQF*
Hose 8x10	136	22	27	19	120	ESN 8 TQF	ES 8 TQF
Hose 8x12	140	22	27	19	130	NEW! ESN 812 TQF*	ES 812 TQF*
Hose 9x12	126	22	27	19	141	ESN 9 TQF	ES 9 TQF

* = 5

Bulkhead couplings

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

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

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	22.5	100	ES 6 T-45
Hose i.D. 9	44	27	22.5	100	ES 9 T-45
Hose i.D. 13	44	27	25	110	ES 13 T-45

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

Couplings with angle hose barb 90°

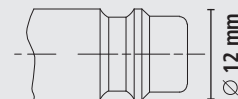
Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 6	44	27	22.5	105	ES 6 T-90
Hose i.D. 9	44	27	22.5	105	ES 9 T-90
Hose i.D. 13	44	27	25	115	ES 13 T-90

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

Angle-Thread Couplings available on request.

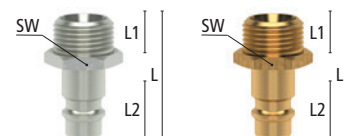
DN 7.2

Plug Profile (original size)

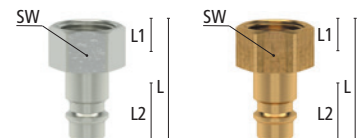
**Plugs with male thread**

Thread connection	L	SW	L1	L2	Material	Weight	Type No. n. plated	Type No. plain
G 1/8 m	31	13	7	20	MS 58	17	ESN 18 NA	ES 18 NA
G 1/4 m	33	17	9	20	MS 58	21	ESN 14 NA	ES 14 NA
G 3/8 m	33	19	9	20	MS 58	26	ESN 38 NA	ES 38 NA
G 1/2 m	35	24	10	20	MS 58	41	ESN 12 NA	ES 12 NA
M 14x1.5 m	33	17	9	20	MS 58	26	NEW! ESN 1415 NA	ES 1415 NA
M 16x1.5 m	33	19	9	20	MS 58	32	NEW! ESN 1615 NA	ES 1615 NA
M 18x1.5 m	34	22	10	20	MS 58	36	NEW! ESN 1815 NA	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	34	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 washers type HPD (© page 212)

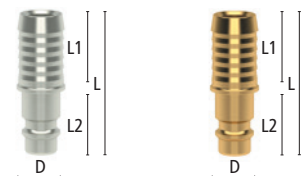
**Plugs with female thread**

Thread connection	L	SW	L1	L2	Material	Weight	Type No. n. plated	Type No. plain
G 1/8 f	31	13	9	20	MS 58	16	ESN 18 NI	ES 18 NI
G 1/4 f	33	17	10	20	MS 58	24	ESN 14 NI	ES 14 NI
G 3/8 f	33	19	10	20	MS 58	23	ESN 38 NI	ES 38 NI
G 1/2 f	35	24	12	20	MS 58	38	ESN 12 NI	ES 12 NI
M 14x1.5 f	33	17	11	20	MS 58	25	NEW! ESN 1415 NI	ES 1415 NI
M 16x1.5 f	33	19	11	20	MS 58	36	NEW! ESN 1615 NI	ES 1615 NI
M 18x1.5 f	35	22	12	20	MS 58	43	NEW! ESN 1815 NI	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	23	20	MS 58	10	ESN 4 S	ES 4 S
Hose i.D. 6	44	12	24	20	MS 58	14	ESN 6 S	ES 6 S
Hose i.D. 8	44	12	24	20	MS 58	18	ESN 8 S	ES 8 S
Hose i.D. 9	44	12	24	20	MS 58	17	ESN 9 S	ES 9 S
Hose i.D. 10	47	12	26	20	MS 58	21		ES 10 SH*
Hose i.D. 10	44	12	23	20	MS 58	19	ESN 10 S	ES 10 S
Hose i.D. 13	47	15	26	20	MS 58	26		ES 13 SH*
Hose i.D. 13	44	15	23	20	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 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)



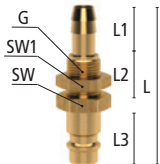
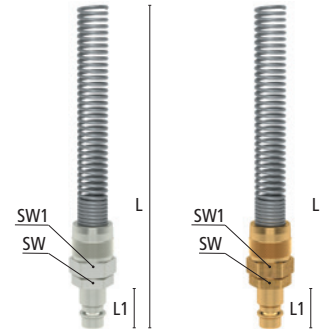
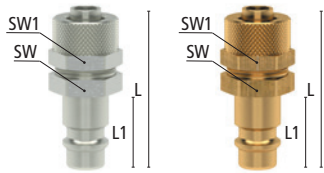
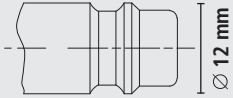
* ES 10 TH and ES 13 TH for the use with quick-fit hoses (e.g. Parker Push-Lock, Gates Lock-on)

Quick Connect Couplings The original

Series ES single shut-off

DN 7.2

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	NEW! ESN 58 SQF*	ES 58 SQF*
Hose 6x8	115	-	20	14	37	ESN 6 SQF	ES 6 SQF
Hose 6.5x10	115	17	20	17	48	NEW! ESN 6510 SQF*	ES 6510 SQF*
Hose 8x10	132	17	20	19	83	ESN 8 SQF	ES 8 SQF
Hose 8x12	132	17	20	19	84	NEW! ESN 812 SQF	ES 812 SQF*
Hose 9x12	132	17	20	19	86	ESN 9 SQF	ES 9 SQF

* = 5

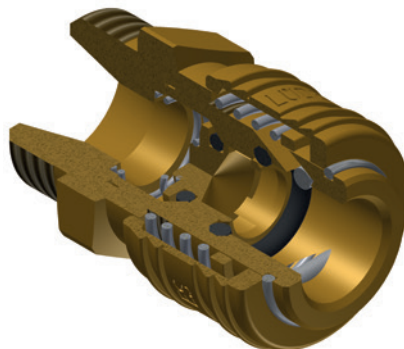
Bulkhead plugs

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

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

Plug 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



- One-hand quick connect couplings made of brass MS 58 plain/ nickel-plated
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Suitable for low vacuum at low couple force compared to all other compatible products
- Closed sleeve design protects the coupling from dirt
- Adheres to the German Clean Air Act "TA-Luft" for industrial production plants
- **Attention: Couplings can be connected with straight-through plugs DN 7.2. However, double shut-off plugs cannot be connected with standard 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/ nickel-plated
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)
- Springs, retaining ring: Stainless steel 1.4310
- Pins: Stainless steel 1.4305

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.2	ISO 228 / DIN 13	630 l/min	One-hand	Double shut-off	Air / Others	Worldwide	10

Couplings with male thread

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

Male thread sealing with PVC sealing ring type HPD (☺ page 212)

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
NEW! G 1/8 f	39	22	27	9	92	ESN 18 IAB	ES 18 IAB
G 1/4 f	41	22	27	10.5	92	ESN 14 IAB	ES 14 IAB
G 3/8 f	41	22	27	10.5	85	ESN 38 IAB	ES 38 IAB
G 1/2 f	42.5	24	27	12	87	ESN 12 IAB	ES 12 IAB
NEW! M 14x1.5 f	41.5	22	27	11	85	ESN 1415 IAB	ES 1415 IAB
M 16x1.5 f	41.5	22	27	11	85	ESN 1615 IAB	ES 1615 IAB
NEW! M 18x1.5 f	41.5	22	27	12	85	ESN 1815 IAB	ES 1815 IAB

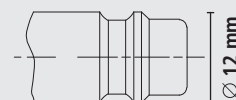
Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No. n. plated	Type No. plain
NEW! SLW 6	55	27	23	64	ESN 6 TAB	ES 6 TAB
SLW 8	55	27	24	64	ESN 8 TAB	ES 8 TAB
SLW 9	55	27	24	68	ESN 9 TAB	ES 9 TAB
SLW 10	55	27	24	68	ESN 10 TAB	ES 10 TAB
NEW! SLW 13	55	27	25	75	ESN 13 TAB	ES 13 TAB

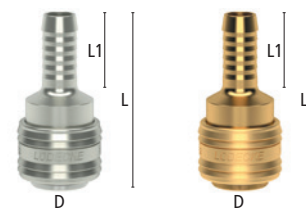
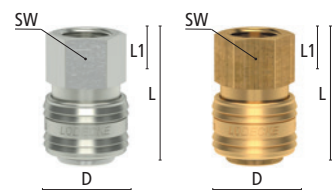
For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

DN 7.2

Plug Profile (original size)



Also in Stainless Steel
Series ESE
Page 298

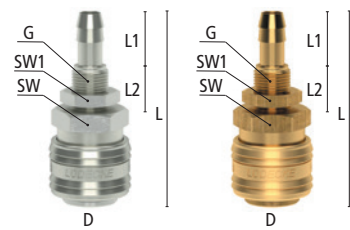
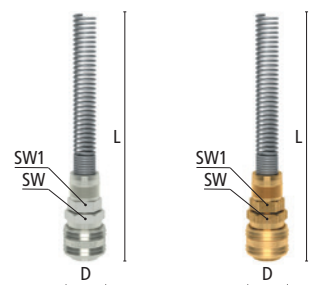
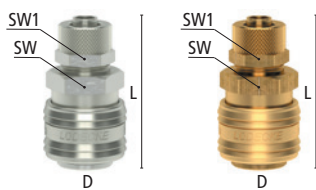
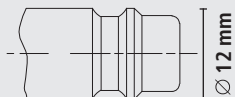


Quick Connect Couplings The original

Series ES double shut-off

DN 7.2

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 TQAB	ES 4 TQAB
Hose 6x8	44	22	27	14	78	ESN 6 TQAB	ES 6 TQAB
Hose 8x10	48	22	27	17	83	ESN 8 TQAB	ES 8 TQAB
Hose 9x12	48	22	27	17	85	ESN 9 TQAB	ES 9 TQAB

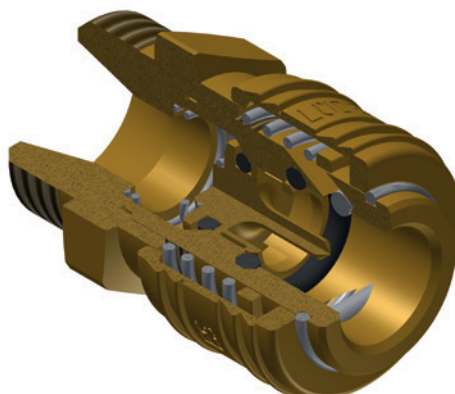
Couplings with squeeze nut and spring guard

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	125	22	27	12	85	ESN 4 TQFAB	ES 4 TQFAB
Hose 5x8	130	22	27	14	88	ESN 58 TQFAB	ES 58 TQFAB
Hose 6x8	130	22	27	14	90	ESN 6 TQFAB	ES 6 TQFAB
Hose 6,5x10	130	22	27	17	95	ESN 6510 TQFAB	ES 6510 TQFAB
Hose 8x10	136	22	27	19	120	ESN 8 TQFAB	ES 8 TQFAB
Hose 8x12	140	22	27	19	130	ESN 812 TQFAB	ES 812 TQFAB
Hose 9x12	126	22	27	19	141	ESN 9 TQFAB	ES 9 TQFAB

Bulkhead couplings

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

For hose clips type ZOS (☹ page 130), type HS (☹ page 131) or crimping ferrules type LPH (☹ page 133)

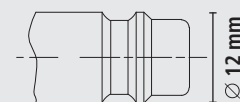


The original Quick Connect Couplings

double shut-off Series ES

DN 7.2

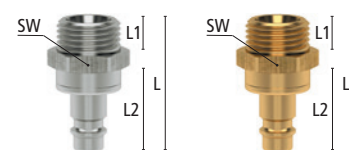
Plug Profile (original size)



Plugs with male thread

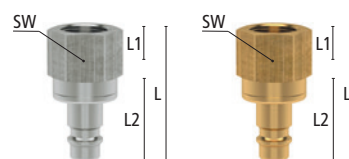
Thread connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
NEW! G 1/8 m	41	22	7	20	45	ESN 18 NAAB	ES 18 NAAB
G 1/4 m	43	22	9	20	45	ESN 14 NAAB	ES 14 NAAB
G 3/8 m	44	22	10	20	48	ESN 38 NAAB	ES 38 NAAB
G 1/2 m	44	24	10	20	60	ESN 12 NAAB	ES 12 NAAB
NEW! M 14x1.5 m	43	22	9	20	46	ESN 1415 NAAB	ES 1415 NAAB
M 16x1.5 m	43	22	9	20	46	ESN 1615 NAAB	ES 1615 NAAB
NEW! M 18x1.5 m	43	22	10	20	46	ESN 1815 NAAB	ES 1815 NAAB

Male thread sealing with PVC sealing ring type HPD (☺ page 212)



Plugs with female thread

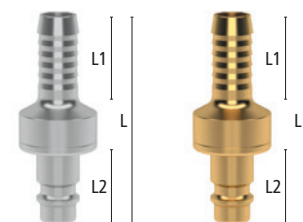
Thread connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
NEW! G 1/8 f	44	22	10.5	20	64	ESN 18 NIAB	ES 18 NIAB
G 1/4 f	44	22	10.5	20	64	ESN 14 NIAB	ES 14 NIAB
G 3/8 f	44	22	10.5	20	57	ESN 38 NIAB	ES 38 NIAB
G 1/2 f	44.5	24	12	20	62	ESN 12 NIAB	ES 12 NIAB
NEW! M 14x1.5 f	43.5	22	11	20	60	ESN 1415 NIAB	ES 1415 NIAB
M 16x1.5 f	43.5	22	11	20	60	ESN 1615 NIAB	ES 1615 NIAB
NEW! M 18x1.5 f	43.5	22	11	20	60	ESN 1815 NIAB	ES 1815 NIAB



Plugs with hose barb

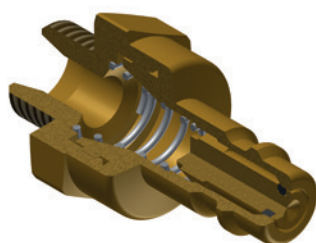
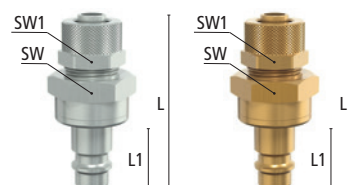
Hose connection	L	L1	L2	Weight	Type No. n. plated	Type No. plain
NEW! Hose i.D. 4	58	25	20	34	ESN 4 SAB	ES 4 SAB
Hose i.D. 6	58	25	20	34	ESN 6 SAB	ES 6 SAB
NEW! Hose i.D. 8	58	25	20	34	ESN 8 SAB	ES 8 SAB
Hose i.D. 9	58	25	20	38	ESN 9 SAB	ES 9 SAB
NEW! Hose i.D. 10	58	25	20	44	ESN 10 SAB	ES 10 SAB
Hose i.D. 13	58	25	20	44	ESN 13 SAB	ES 13 SAB

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Plug with squeeze nut

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

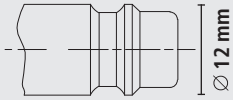


Quick Connect Couplings The original

Series ES straight-through

DN 7.2

Plug Profile (original size)



Also in Stainless Steel
Series ESE
Page 300

- One-hand-quick connect couplings made of brass MS 58 plain/ nickel-plated
- Straight-through passage for optimised flow capacity, particularly for water/ liquid applications
- Please connect with plug series ES DN 7.2 with straight-through passage (page 45)
- Suitable for low vacuum at low couple force compared to all other compatible products
- Closed sleeve design protects the coupling from dirt
- For compressed air supply in industry, handcrafts, hobby as well as for water and other media

Materials

- Body, sleeve, valve body, valve: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)
- 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 Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.2	ISO 228/ DIN 13	2150 l/min	One-hand	straight-through	Air / Others	Worldwide	10

Couplings with male thread

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

Male thread sealing with PVC sealing ring type HPD (☺ page 212)

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	92	ESN 18 IO	ES 18 IO
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
M 14x1.5 f	41.5	22	27	11	87	ESN 1415 IO	ES 1415 IO
M 16x1.5 f	41.5	22	27	11	87	ESN 1615 IO	ES 1615 IO
M 18x1.5 f	41.5	22	27	12	87	ESN 1815 IO	ES 1815 IO

Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 6	55	27	24	64	ESN 6 TO	ES 6 TO
Hose i.D. 8	55	27	24	64	ESN 8 TO	ES 8 TO
Hose i.D. 9	55	27	24	68	ESN 9 TO	ES 9 TO
Hose i.D. 10	55	27	24	68	ESN 10 TO	ES 10 TO
Hose i.D. 13	55	27	25	75	ESN 13 TO	ES 13 TO

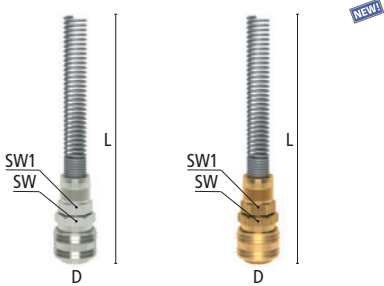
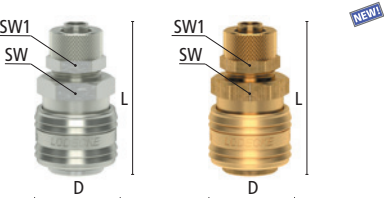
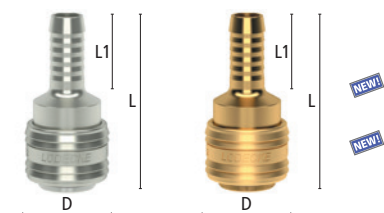
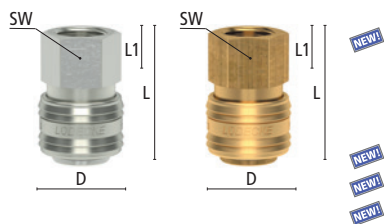
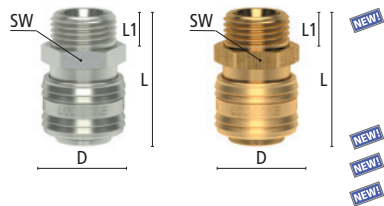
For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

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 TQO	ES 4 TQO
Hose 6x8	44	22	27	14	78	ESN 6 TQO	ES 6 TQO
Hose 8x10	48	22	27	17	83	ESN 8 TQO	ES 8 TQO
Hose 9x12	48	22	27	17	85	ESN 9 TQO	ES 9 TQO

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 TQFO	ES 4 TQFO
Hose 5x8	130	22	27	14	88	ESN 58 TQFO	ES 58 TQFO
Hose 6x8	130	22	27	14	90	ESN 6 TQFO	ES 6 TQFO
Hose 6,5x10	130	22	27	17	95	ESN 6510 TQFO	ES 6510 TQFO
Hose 8x10	136	22	27	19	120	ESN 8 TQFO	ES 8 TQFO
Hose 8x12	140	22	27	19	130	ESN 812 TQFO	ES 812 TQFO
Hose 9x12	126	22	27	19	141	ESN 9 TQFO	ES 9 TQFO



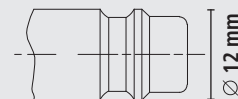
The original

Quick Connect Couplings

straight-through **Series ES**

DN 7.2

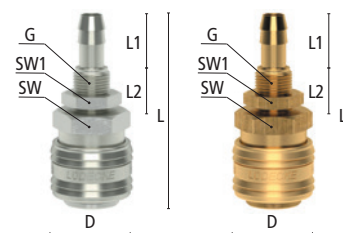
Plug Profile (original size)



Bulkhead coupling

Hose connect.	L	SW	D	L1	L2	SW1	G	Weight	Type No. n. plated	Type No. MS plain
Hose i.D. 6	62	22	27	17	14	17	M 12x1 a	87	ESN 6 TSVO	ES 6 TSVO
Hose i.D. 8	62	22	27	17	14	17	M 12x1 a	88	ESN 8 TSVO	ES 8 TSVO
Hose i.D. 10	70	22	27	25	14	19	M 14x1 a	90	ESN 10 TSVO	ES 10 TSVO

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Manifolds for Quick Connect Couplings

made of brass MS 58

- Manifolds for quick connect couplings made of brass MS 58 plain
- 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 (page 124)
- [For the distribution of compressed air from a central extraction point](#)

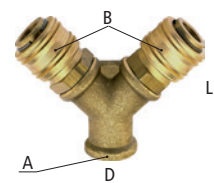
Materials

- Manifold and quick connect coupling: Brass MS 58 plain

Max. Working Pressure	Temperature	Media
PN 35 bar	-20°C – +100°C	Air / Others

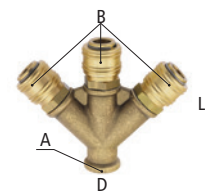
3-way manifolds with one-hand quick connect couplings DN 7.2 assembled

Inlet (A)	Outlet (B)	L	D	Passage		Weight	Type No.
G 3/8 f	2 x ES 38 A	67	26	7.2	5	241	DWS 38 ES
G 1/2 f	2 x ES 12 A	69	27.5	7.2	5	275	DWS 12 ES



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	5	417	VWS 38 ES
G 1/2 f	3 x ES 12 A	91	27.5	7.2	5	435	VWS 12 ES



OptiFlow-Line

Energy-Efficient Quick Connect Couplings



Compressed air - an expensive media?

Despite many advantages, compressed air has a reputation for being a costly media – in many cases, this is not true. When using the right components, an energy-efficient operation is possible.

Energy performance is reduced by the following:

- Standard valves with large surface area
- Too small dimensioned hose or tubing
- Too small dimensioned connections
- Insufficient capacity in networks or compressed air systems
- Excess humidity

This leads to:

- High pressure drop
- High energy consumption of compressor
- Reduced productivity
- Damages to systems/ tools

The **LUDECKE OptiFlow-Line** offers energy-optimised coupling systems which achieve higher flow rates and significantly reduce energy consumption. This in turn leads to decreasing energy costs as well as increasing durability and lifetime of machines and tools.

By continuously improving our development and production processes, we ensure that our quick connect couplings are permanently revised and performance optimised. In this way, we guarantee sustainable and efficient operation.

Find out more about the **LUDECKE** sustainability strategies in our Green Company Report (www.ludecke.com).

LUDECKE OptiFlow-Line

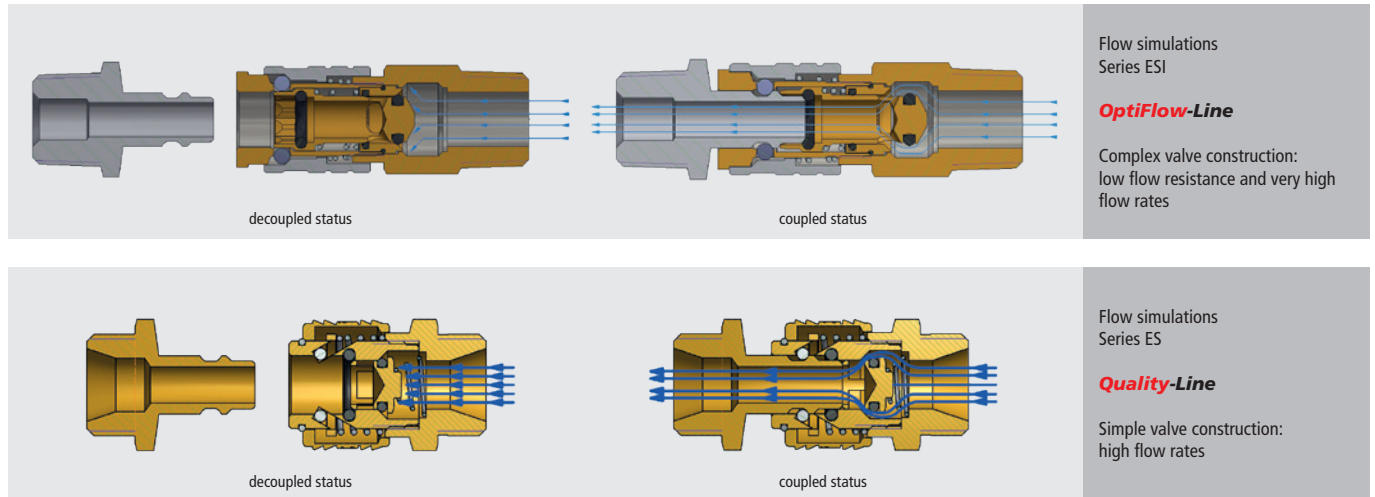
- Patented OptiFlow by **LUDECKE**® valve technology
- Extremely high flow rates
- Low pressure drop
- High durability
- Great operational safety and best sealing characteristics

**Opti[®]
Flow**
by **LUDECKE**



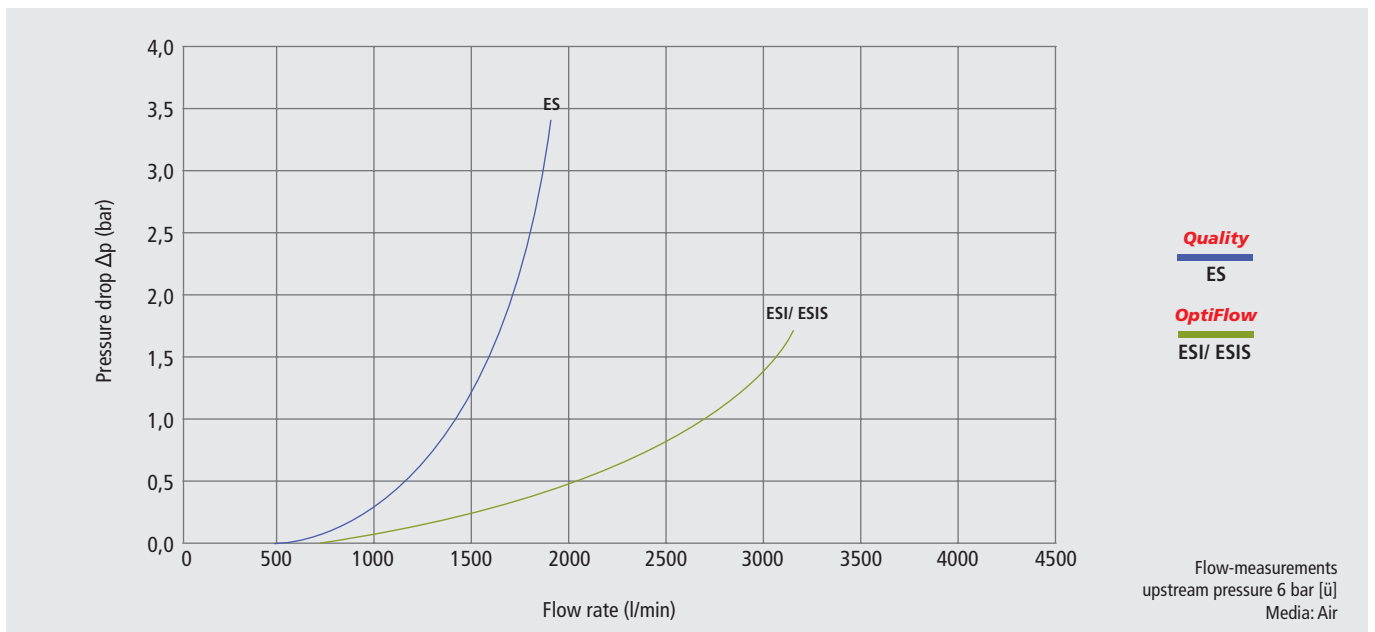
Flow Simulation - Comparison

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



Comparison Chart of Flow Rates

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



Different Sizes and Versions

The **LUDECKE OptiFlow-Line** is made up of different series.

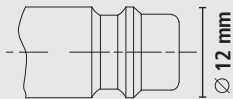
Industrial Quick Connect Couplings		Industrial Quick Connect Couplings	Safety Quick Connect Couplings				
Series: ESI DN 7.8	Series: ESIG DN 10	Series: ESG DN 19	Series: ESIS DN 7.8	Series: ESI DN 7.8	Series: ESIK DN 7.8	Series: ESI1A DN 7.4 ESI2A DN 7.4	Series: ESIFK DN 7.8

Industrial Quick Connect Couplings

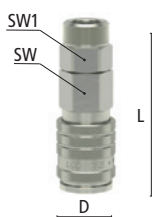
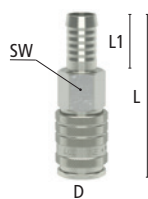
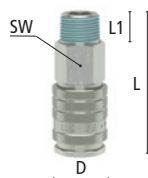
Series ESI single shut-off

DN 7.8

Plug Profile (original size)



Also in Stainless Steel
Series ESIE
Page 301



- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Collar version: protection for valve body
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- For compressed air supply in industry and handcrafts, we recommend direct use at tool
- Also interchangeable with plug profile ES DN 7.2

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve, plug: Hardened steel nickel-plated
- Seals: NBR (other sealing materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.8	ISO 228/DIN EN 10226	2000 l/min	One-hand	Single shut-off	Air/Others	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	60	19	24	11	98	ESI 14 A
R 3/8 m	61	19	24	12	97	ESI 38 A
R 1/2 m	65	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

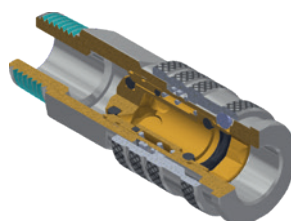
For hose clips type ZOS (⊗ page 130), type HS (⊗ page 131) or crimping ferrules type LPH (⊗ page 133)

Couplings with squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No.
Hose 5x8	64	19	24	14	110	ESI 58 TQ
Hose 6x8	64	19	24	14	110	ESI 6 TQ
Hose 6.5x10	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

Couplings with squeeze nut and spring guard

Hose connection	L	SW	D	SW1	Weight	Type No.
Hose 5x8	150	19	24	14	124	ESI 58 TQF
Hose 6x8	150	19	24	14	123	ESI 6 TQF
Hose 6.5x10	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



OptiFlow
by **LUDECKE**

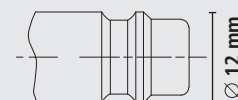


Industrial Quick Connect Couplings

single shut-off **Series ESI**

DN 7.8

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	37	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	31	13	7	20	14	ESI 18 NAS
G 1/4 m	33	17	9	20	18	ESI 14 NAS
G 3/8 m	34	19	9	20	23	ESI 38 NAS
G 1/2 m	36	24	10	20	47	ESI 12 NAS

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	30	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

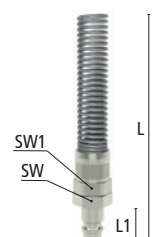
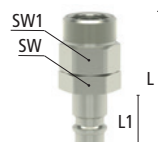
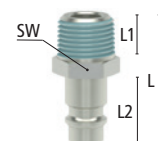
For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

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

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 6.5x10	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



Opti®
Flow
by LUDECKE

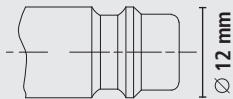


Industrial Quick Connect Couplings

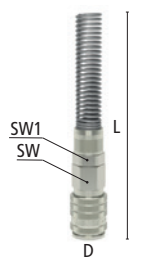
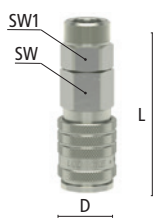
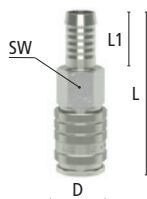
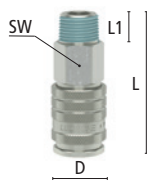
Series ESI double shut-off

DN 7.8

Plug Profile (original size)



Also in Stainless Steel
Series ESIE
Page 302



- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Collar version: protection for valve body
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- **Attention: Couplings can be connected with straight-through plugs DN 7.8. However, double shut-off plugs cannot be connected with standard couplings DN 7.8**
- For compressed air supply in industry and handcrafts, we recommend direct use at tool
- Also interchangeable with plug profile ES DN 7.2

Materials

- Body, valve body, plug: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve: Hardened steel nickel-plated
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.8	ISO 228/DIN EN 10226	670 l/min	One-hand	Double shut-off	Air/Others	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	60	19	24	11	98	ESI 14 AAB
R 3/8 m	61	19	24	12	97	ESI 38 AAB
R 1/2 m	65	22	24	15	114	ESI 12 AAB

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 IAB
G 3/8 f	56	19	24	10	107	ESI 38 IAB
G 1/2 f	58	24	24	12	125	ESI 12 IAB

Couplings with hose barb

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

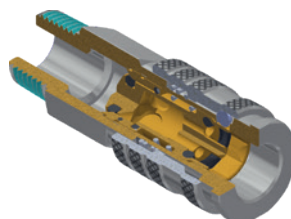
For hose clips type ZOS (☉ page 130), type HS (☉ page 131) or crimping ferrules type LPH (☉ page 133)

Couplings with squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No.
Hose 5x8	64	19	24	14	110	ESI 58 TQAB
Hose 6x8	64	19	24	14	110	ESI 6 TQAB
Hose 6.5x10	69	19	24	17	126	ESI 6510 TQAB
Hose 8x10	69	19	24	19	134	ESI 8 TQAB
Hose 8x12	68	19	24	19	129	ESI 812 TQAB
Hose 9x13	70	19	24	19	130	ESI 913 TQAB

Couplings with squeeze nut and spring guard

Hose connection	L	SW	D	SW1	Weight	Type No.
Hose 5x8	150	19	24	14	124	ESI 58 TQFAB
Hose 6x8	150	19	24	14	123	ESI 6 TQFAB
Hose 6.5x10	170	19	24	17	152	ESI 6510 TQFAB
Hose 8x10	170	19	24	19	162	ESI 8 TQFAB
Hose 8x12	144	19	24	19	156	ESI 812 TQFAB
Hose 9x13	170	19	24	19	162	ESI 913 TQFAB



OptiFlow
by **LUDECKE**

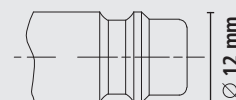


Industrial Quick Connect Couplings

double shut-off **Series ESI**

DN 7.8

Plug Profile (original size)



NEW!

Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m	43	22	9	20	45	ESN 18 NAAB
G 1/4 m	43	22	9	20	45	ESN 14 NAAB
G 3/8 m	44	22	10	20	48	ESN 38 NAAB
G 1/2 m	44	24	10	20	60	ESN 12 NAAB
M 14x1.5 m	43	22	9	20	46	ESN 1415 NAAB
M 16x1.5 m	43	22	9	20	46	ESN 1615 NAAB
M 18x1.5 m	43	22	9	20	46	ESN 1815 NAAB

Male thread sealing with PVC sealing ring type HPD (☺ page 212)



NEW!

Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	44	22	10.5	20	64	ESN 18 NIAB
G 1/4 f	44	22	10.5	20	64	ESN 14 NIAB
G 3/8 f	44	22	10.5	20	57	ESN 38 NIAB
G 1/2 f	44.5	24	12	20	62	ESN 12 NIAB
M 14x1.5 f	43.5	22	11	20	60	ESN 1415 NIAB
M 16x1.5 f	43.5	22	11	20	60	ESN 1615 NIAB
M 18x1.5 f	43.5	22	11	20	60	ESN 1815 NIAB



Plugs with hose barb

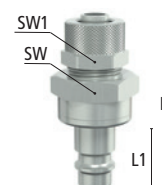
Hose connection	L	L1	L2	Weight	Type No.
Hose i.D. 4	58	25	20	34	ESN 4 SAB
Hose i.D. 6	58	25	20	34	ESN 6 SAB
Hose i.D. 8	58	25	20	34	ESN 8 SAB
Hose i.D. 9	58	25	20	38	ESN 9 SAB
Hose i.D. 10	58	25	20	44	ESN 10 SAB
Hose i.D. 13	58	25	20	44	ESN 13 SAB

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Plugs with squeeze nut

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



Opti®
Flow
by LUDECKE

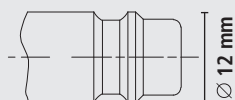


Industrial Quick Connect Couplings

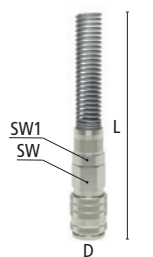
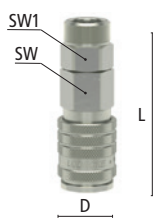
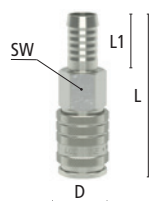
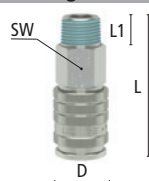
Series ESI straight-through

DN 7.8

Plug Profile (original size)



Also in Stainless Steel
Series ESIE
Page 303



- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Straight-through passage for optimised flow capacity, particularly for water/ liquid applications
- Please connect with plug series ESI DN 7.8 with straight-through passage (page 55)
- Collar version: protection for valve body
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- For compressed air supply in industry and handcrafts, we recommend direct use at tool
- Also interchangeable with plug profile ES DN 7.2

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve, plug: Hardened steel nickel-plated
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.8	ISO 228/DIN EN 10226	2800 l/min	One-hand	Straight-through	Air/Others	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	60	19	24	11	98	ESI 14 AO
R 3/8 m	61	19	24	12	97	ESI 38 AO
R 1/2 m	65	22	24	15	114	ESI 12 AO

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 IO
G 3/8 f	56	19	24	10	107	ESI 38 IO
G 1/2 f	58	24	24	12	125	ESI 12 IO

Couplings with hose barb

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

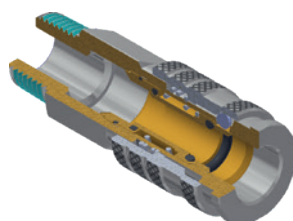
For hose clips type ZOS (⊗ page 130), type HS (⊗ page 131) or crimping ferrules type LPH (⊗ page 133)

Couplings with squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No.
Hose 5x8	64	19	24	14	110	ESI 58 TQO
Hose 6x8	64	19	24	14	110	ESI 6 TQO
Hose 6.5x10	69	19	24	17	126	ESI 6510 TQO
Hose 8x10	69	19	24	19	134	ESI 8 TQO
Hose 8x12	68	19	24	19	129	ESI 812 TQO
Hose 9x13	70	19	24	19	130	ESI 913 TQO

Couplings with squeeze nut and spring guard

Hose connection	L	SW	D	SW1	Weight	Type No.
Hose 5x8	150	19	24	14	124	ESI 58 TQFO
Hose 6x8	150	19	24	14	123	ESI 6 TQFO
Hose 6.5x10	170	19	24	17	152	ESI 6510 TQFO
Hose 8x10	170	19	24	19	162	ESI 8 TQFO
Hose 8x12	144	19	24	19	156	ESI 812 TQFO
Hose 9x13	170	19	24	19	162	ESI 913 TQFO



Industrial Quick Connect Couplings

single shut-off **Series ESIG**

- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Very high flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- For compressed air supply in industry and handcrafts at extraction points with extremely high flow rates for high-performance tools as well as in engineering and construction

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve, plug: Hardened steel nickel-plated
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: NBR (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	10	ISO 228/DIN EN 10226	3200 l/min	One-hand	Single shut-off	Air/Others	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	10	136	ESIG 14 I
G 3/8 f	56	24	27	11	145	ESIG 38 I
G 1/2 f	60	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 130), type HS (☉ page 131) or crimping ferrules type LPH (☉ page 133)

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

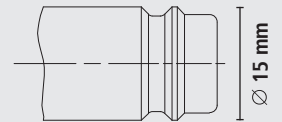
Plugs with hose barb

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

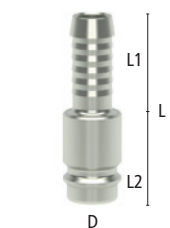
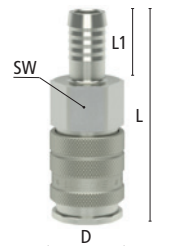
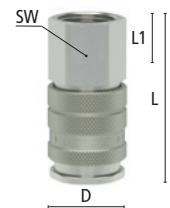
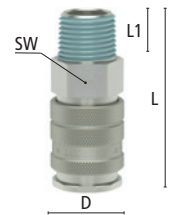
For hose clips type ZOS (☉ page 130), type HS (☉ page 131) or crimping ferrules type LPH (☉ page 133)

DN 10

Plug Profile (original size)



Also in Stainless Steel
Series ESIGE
Page 304



Opti®
Flow
by **LUDECKE**

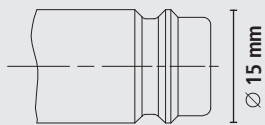


Industrial Quick Connect Couplings

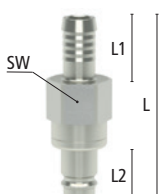
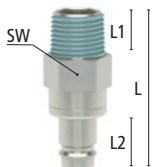
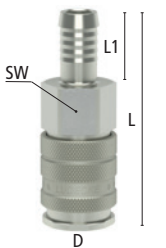
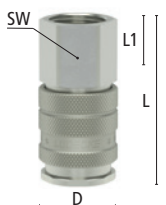
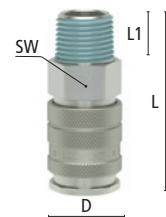
Series ESIG double shut-off

DN 10

Plug Profile (original size)



Also in Stainless Steel
Series ESIGE
Page 305



- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Very high flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- Attention: Couplings can be connected with straight-through plugs DN 10. However, double shut-off 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.
- Adheres to the German Clean Air Act "TA-Luft" for industrial production plants

Materials

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

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	10	ISO 228/DIN EN 10226	1070 l/min	One-hand	Double shut-off	Air/Others	Europe	Coupl.5/Plug10

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 AAB
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 1/4 f	56	24	27	10	136	ESIG 14 IAB
G 3/8 f	56	24	27	11	145	ESIG 38 IAB
G 1/2 f	60	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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

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	57	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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Industrial Quick Connect Couplings

straight-through **Series ESIG**

- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Straight-through passage for optimised flow capacity, particularly for water/ liquid applications
- Please connect with plug series ESIG DN 10 with straight-through passage (page 59)
- Very high flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- For compressed air supply in industry and handcraft at extraction points with extremely high flow rates for high-performance tools as well as in engineering and construction

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve, plug: Hardened steel nickel-plated
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	10	ISO 228/DIN EN 10226	4000 l/min	One-hand	Straight-through	Air/Others	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 AO
R 3/8 m	63	24	27	12	143	ESIG 38 AO
R 1/2 m	65	24	27	17	147	ESIG 12 AO
R 3/4 m	65	27	27	17	155	ESIG 34 AO

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	56	24	27	10	136	ESIG 14 IO
G 3/8 f	56	24	27	11	145	ESIG 38 IO
G 1/2 f	60	24	27	12	135	ESIG 12 IO
G 3/4 f	60	32	27	16	200	ESIG 34 IO

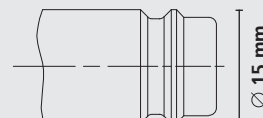
Couplings with hose barb

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

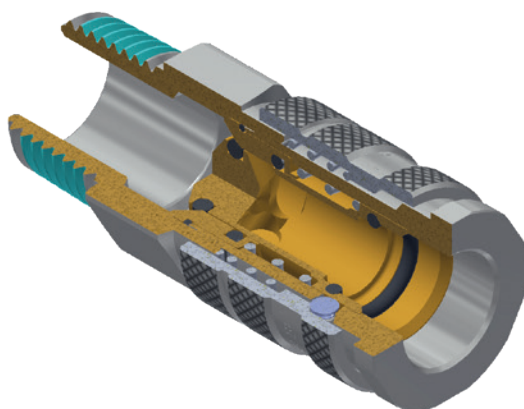
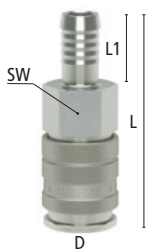
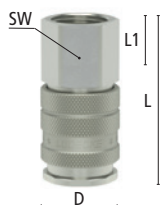
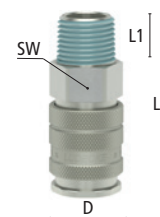
For hose clips type ZOS (☉ page 130), type HS (☉ page 131) or crimping ferrules type LPH (☉ page 133)

DN 10

Plug Profile (original size)



Also in Stainless Steel
Series ESIGE
Page 306



OptiFlow
by **LUDECKE**

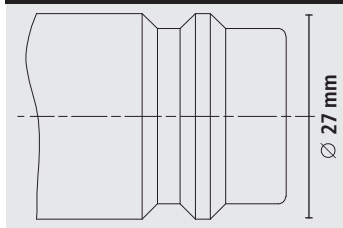


Industrial Quick Connect Couplings

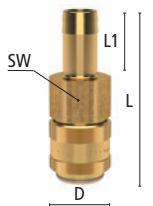
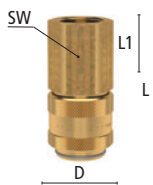
Series ESG single and double shut-off

DN 19

Plug Profile (original size)



Also in Stainless Steel
Series ESGE
Page 307/ 308



- Top-quality, extreme robust one-hand quick connect couplings for compressed air and liquid media
- Maximum flow rates with low pressure drop for large tools or for applications with high-volume media flow paired with shut-off functionality through one-hand operation
- Couplings with straight-through passage on request
- Couplings are suitable for shut-off plugs (Please note: Valve construction designed for media flow from coupling to plug)
- For compressed air supply in industry and handcrafts at extraction points with extremely high flow rates for high-performance tools as well as in engineering and construction
- Adheres to the German Clean Air Act "TA-Luft" for 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
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	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/Others	Europe	Coupl. 1 / Plug 5

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

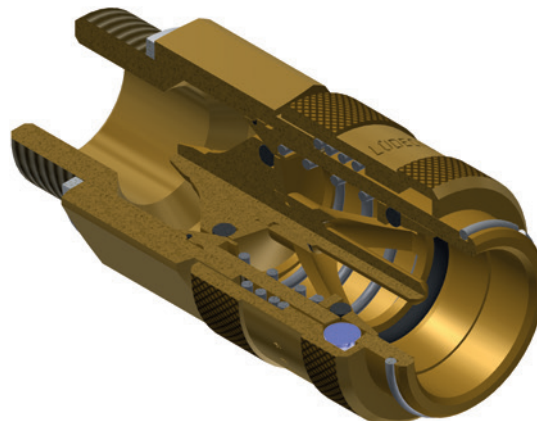
Couplings with female thread

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 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

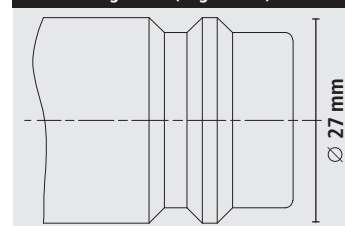


Industrial Quick Connect Couplings

single and double shut-off **Series ESG**

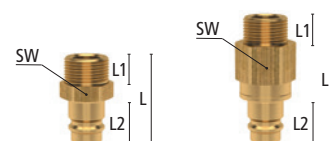
DN 19

Plug Profile (original size)



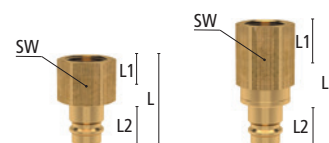
Plugs with male thread

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

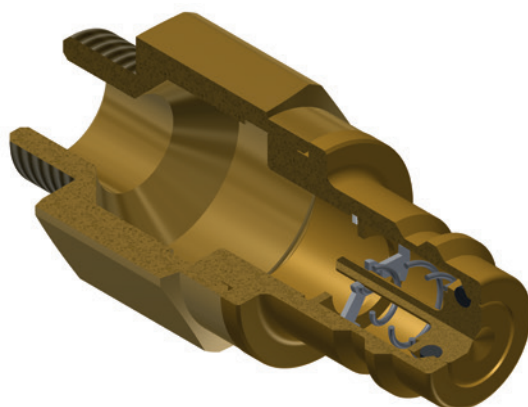
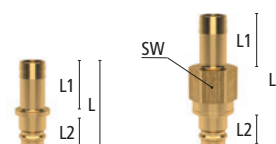
Thread connection	L	SW	L1	L2	Type of valve	Weight	Type No.
G 3/4 f	58	32	16	34	straight-through	160	ESG 34 NI
G 1 f	68	41	19	34	straight-through	300	ESG 10 NI
G 1 1/4 f	70	50	19	34	straight-through	410	ESG 54 NI
G 3/4 f	97	41	20	34	shut-off	430	ESG 34 NIAB
G 1 f	97	41	22	34	shut-off	450	ESG 10 NIAB
G 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 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)



SafeConnect-Line

Quick Connect Couplings for High-Safety Standards

Compressed air is a media with great potential risks. In case of improper use and when safety regulations are not being followed, huge forces can be released and put the operator in a dangerous situation.



Whiplash-effect: high risk of injury when using compressed air - avoided through products from the **LUDECKE SafeConnect-Line**.

Common problems:

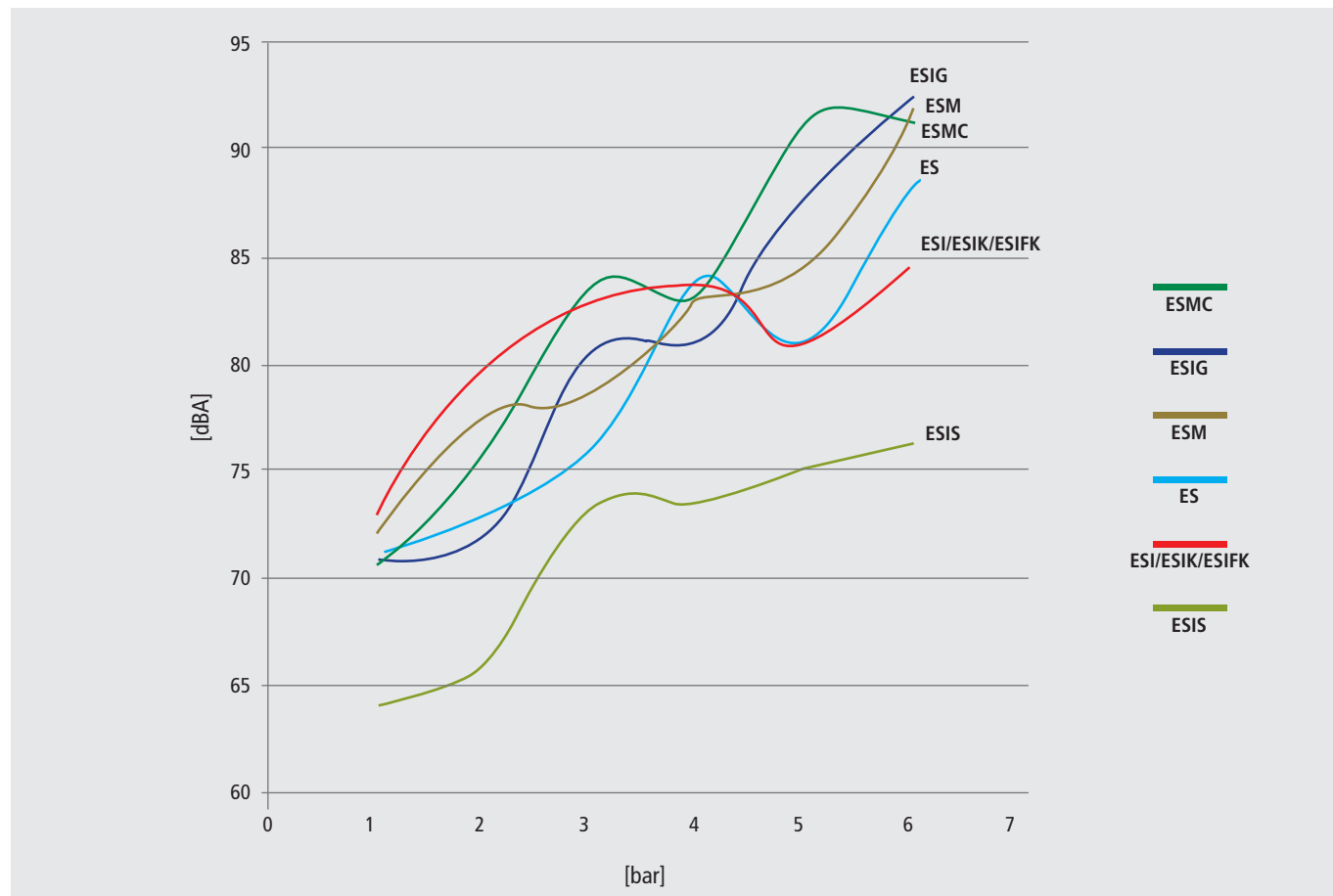
- Accidental disconnection of the couplings leading uncoupled flexible hose lines to whip uncontrollably under pressure (whiplash-effect),
- Unnecessary stress caused by high noise levels when decoupling as well as
- False coupling while using different media simultaneously



The **LUDECKE SafeConnect-Line** offers various coupling systems with a reliable protection against these problems. This is how we guarantee maximum reliability and safety at work.

Noise Levels of Different Quick Connect Coupling Series When Decoupling

The ESIS series can be decoupled in a pressure range from 1 to 6 bar at a noise level with less than 80 db(A). Non-venting couplings exceed this noise level at an operating pressure of 4 bar. In this case, we strongly recommend using ear protection.



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 Identification	
Pressure relief and anti-hose whip reduce noise levels and prevent whiplash-effect	Various security mechanisms prevent accidental disconnection of the coupling				Colour and shape coded couplings and plugs prevent false coupling	
Sleeve concept	Locking nut	Locking nut	Locking nut + plug coding	Two-hand operation	Plug and colour coding	Plug and colour coding
Series: ESIS DN 7.8	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	Series: ESIFK DN 7.8
						

Self-Venting



Quick connect couplings with self-venting prevent the whiplash-effect due to their special construction and at the same time reduce noise levels when decoupling.

The series ESIS DN 7.8 is disconnected in two steps by pushing and pulling the sleeve (sleeve concept). This means the connection may only be separated when the residual pressure has dropped to a safe value after having pushed the sleeve of the coupling.



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



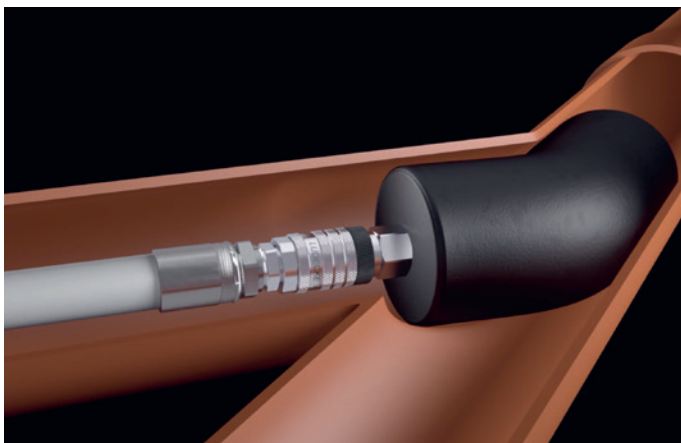
Disconnection - first step: Automatic venting



Disconnection - second step: Safe decoupling

Sleeve Lock Mechanism

Locking Nut



The quick connect couplings with sleeve lock mechanism via locking nut offer simple and effective protection against unintentional disconnection. To set up, the locking nut needs to be screwed manually against the sleeve after coupling.

Moreover, the series ESIK has coded plugs (only couplings and plugs with the same coding can be connected). This prevents twisting of the plug in the coupling; at the same time a torsional moment can be transferred. As a result, the Series ESIK DN 7.8 is especially suited for sewer cleaning and reconstruction.



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



Tighten the locking nut to secure the sleeve



Disconnection: Separate the coupling from the plug after loosening the locking nut

Two-Hand Operation



The breathing air quick connect couplings series ESI1A and ESI2A DN 7.4 guarantee special safety aspects due to their extraordinary design. This allows them to be used in extreme situations (e.g. for respiratory masks of firefighters).

Both systems can only be combined under certain conditions. Furthermore, the two-hand operation ensures high safety when disconnecting coupling and plug. In this way, they provide reliable protection against accidental decoupling.

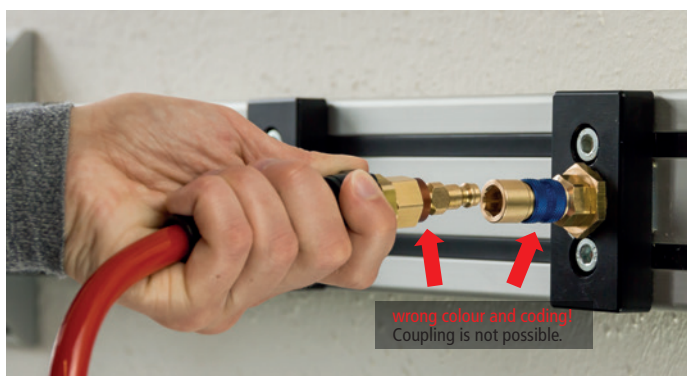


One-hand operation: To connect push the plug into the coupling.



Two-hand operation: To disconnect, push the plug while pulling back the sleeve

Visual Identification



The series ESMK DN 5 and ESIFK DN 7.8 allow for easy identification of different media circuits and prevent false coupling. This is due to coloured anodized knurled aluminium sleeves on the coupling as well as coloured anodized aluminium rings on the plug and various codes at the coupling and plug.



One-hand operation: To connect, push the plug into the coupling. (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.)



To disconnect, pull back the coupling sleeve.

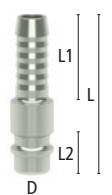
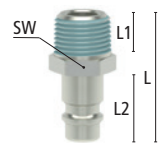
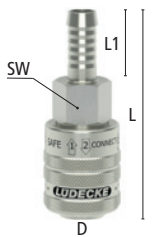
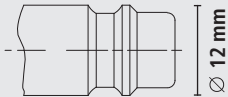
Safety Self-Venting Couplings

Series ESIS with Sleeve Concept - single shut-off

According to
ISO 4414/
DIN EN 983/ BIA

DN 7.8

Plug Profile (original size)



- Top-quality, ergonomic and very robust one-hand quick connect couplings made of brass MS 58 nickel-plated with hardened steel sleeve and perfect sealing as well as compact dimensions
- Very easy to connect, disconnection in two steps by pushing and pulling the sleeve in direction of arrow. Self-venting after step 1, safe decoupling after step 2
- Safe protection against whiplash-effect at best usability
- For safe handling of flexible compressed air lines
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- **Attention: Safe operation can only be guaranteed when using hardened steel plugs**

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve, plug: Hardened steel nickel-plated
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 12 bar	-20°C – +100°C	7.8	ISO 228/DIN EN 10226	2000 l/min	One-hand	Single Shut-off	Compr. air	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	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

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

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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

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	37	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	30	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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Safety Quick Connect Couplings

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

- One-hand quick connect couplings made of brass MS 58 plain
- Simple and effective protection against accidental disconnection through tightening the locking nut (disconnecting is only possible through loosening the locking nut)
- Please connect with standard plugs series ES DN 7.2 (page 45)
- Suitable for low vacuum at low couple force compared to all other compatible products
- **For compressed air supply or liquid media, e.g. for sewer cleaning and reconstruction**

Materials

- Body, sleeve, valve body, valve: Brass MS 58 plain
- Springs: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- Seals: NBR (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.2	ISO 228	1100 l/min	One-hand	Single Shut-off	Air/Others	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

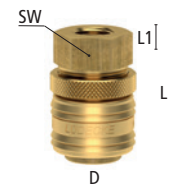
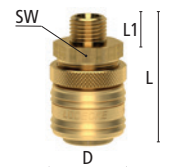
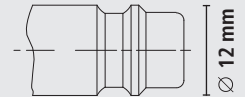
Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 13	61	22	27	25	109	ES 13 TM

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Special versions on request.

DN 7.2

Plug Profile (original size)

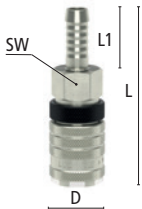
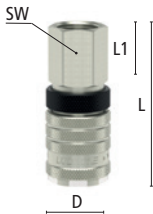
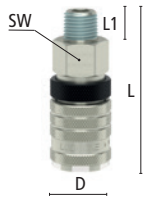
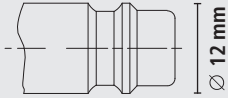


Safety Industrial Quick Connect Couplings

Series ESI with Sleeve Lock Mechanism - single shut-off

DN 7.8

Plug Profile (original size)



- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Simple and effective protection against accidental disconnection through tightening the locking nut (disconnecting is only possible through loosening the locking nut)
- Please connect with standard plugs series ESI DN 7.8 (page 55) as well as series ES DN 7.2 (page 45)
- Very high flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- For compressed air supply or liquid media, e.g. for sewer cleaning and reconstruction

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve, plug: Hardened steel nickel-plated
- Locking nut: Brass MS 58 black galvanized
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: NBR (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.8	ISO 228/ DIN EN 10226	2000 l/min	One-hand	Single shut-off	Air/Others	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
R 3/8 m	61	19	23	12	114	ESI 38 AM
R 1/2 m	59	24	23	15	131	ESI 12 AM

Couplings with female thread

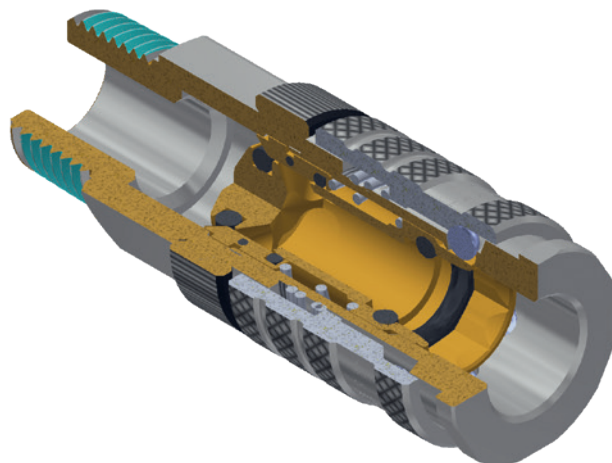
Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	57	19	23	10	118	ESI 14 IM
G 3/8 f	57	19	23	10	109	ESI 38 IM
G 1/2 f	59	24	23	12	129	ESI 12 IM

Couplings with hose barb

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

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Special versions on request.

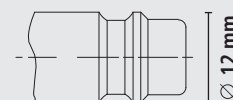


Safety Industrial Quick Connect Couplings

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

DN 7.8

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	37	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	31	13	7	20	14	ESI 18 NAS
G 1/4 m	33	17	9	20	18	ESI 14 NAS
G 3/8 m	34	19	9	20	23	ESI 38 NAS
G 1/2 m	36	24	10	20	47	ESI 12 NAS

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	30	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

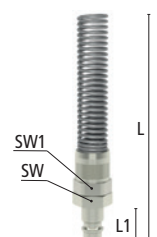
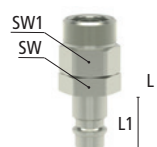
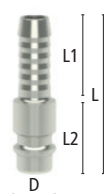
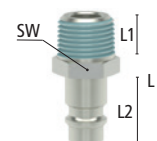
For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

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

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 6.5x10	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



Opti®
Flow
by LUDECKE

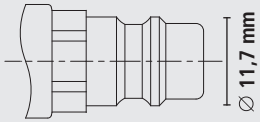


Safety Industrial Quick Connect Couplings

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

DN 7.8

Plug Profile (original size)



- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Simple and effective protection against accidental disconnection through tightening the locking nut (disconnecting is only possible through loosening the locking nut)
- Plug coding: prevents twisting of coded plug in coupling
- Very high flow rates with low pressure drop due to patented OptiFlow by **LUDECKE®** valve technology
- For compressed air or liquid media, e.g. for sewer cleaning and reconstruction

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Sleeve, plug: Hardened steel nickel-plated
- Locking nut: Brass MS 58 black galvanized
- Springs: Stainless steel 1.4310
- Valve: Brass MS 58 plain
- Balls: Stainless steel 1.4034
- Seals: NBR (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7,8	ISO 228/ DIN EN 10226	2000 l/min	One-hand	Single Shut-off	Air/Others	Worldwide	5

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	64	19	24	11	119	ESIK 14 A
R 3/8 m	64	19	24	12	118	ESIK 38 A
R 1/2 m	67	22	24	15	135	ESIK 12 A

Couplings with female thread

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

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	87	19	24	35	115	ESIK 6 T
Hose i.D. 8	87	19	24	35	117	ESIK 8 T
Hose i.D. 9	87	19	24	35	118	ESIK 9 T
Hose i.D. 10	87	19	24	35	119	ESIK 10 T
Hose i.D. 13	87	19	24	35	122	ESIK 13 T

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

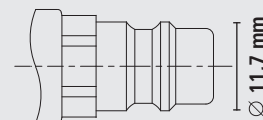


Safety Industrial Quick Connect Couplings

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

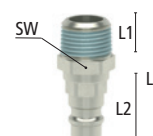
DN 7.8

Plug Profile (original size)



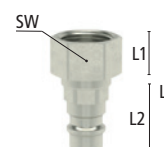
Plugs with male thread (thread coated) and plug coding

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 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)



OptiFlow
by LUDECKE

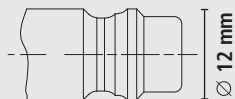


Breathing Air Couplings

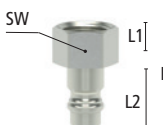
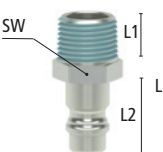
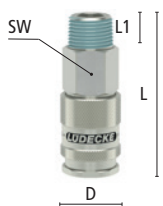
Series ESI1A with Two-Hand Operation - single shut-off

DN 7.4

Plug Profile (original size)



According to
DIN EN 14594



- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- To disconnect, push the plug into the coupling, only then the unlocking mechanism will work, this guarantees effective protection against accidental disconnection
- Coupling „ESI2A“ cannot be combined with plug „ESI1A“, plug „ESI2A“ can be combined with coupling „ESI1A“
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Special versions, e.g. straight-through or double shut-off valve on request

Materials

- Body, sleeve, valve body, plug: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.4	ISO 228 / DIN EN 10226	1800 l/min	Two-hand	Single Shut-off	Compr. air	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	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.
Hose i.D. 6	73	19	23	25	100	ESI1A 6 T
Hose i.D. 8	73	19	23	25	101	ESI1A 8 T
Hose i.D. 9	73	19	23	25	100	ESI1A 9 T
Hose i.D. 10	73	19	23	25	104	ESI1A 10 T
Hose i.D. 13	73	19	23	25	110	ESI1A 13 T

For hose clips type ZOS (⊗ page 130), type HS (⊗ page 131) or crimping ferrules type LPH (⊗ page 133)

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	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 - single shut-off **Series ESI2A**

- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- To disconnect, push the plug into the coupling, only then the unlocking mechanism will work, this guarantees effective protection against accidental disconnection
- Coupling „ESI2A“ cannot be combined with plug „ESI1A“, plug „ESI2A“ can be combined with coupling „ESI1A“
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Special versions, e.g. straight-through or double shut-off valve on request

Materials

- Body, sleeve, valve body, plug: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.4	ISO 228 / DIN EN 10226	1800 l/min	Two-hand	Single Shut-off	Compr. 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	ESI2A 14 A
R 3/8 m	65	19	23	12	117	ESI2A 38 A
R 1/2 m	68	22	23	15	144	ESI2A 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	ESI2A 14 I
G 3/8 f	60	19	23	10	111	ESI2A 38 I
G 1/2 f	62	24	23	12	146	ESI2A 12 I

Couplings with hose barb – long version

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	77	19	23	25	108	ESI2A 6 T
Hose i.D. 8	77	19	23	25	110	ESI2A 8 T
Hose i.D. 9	77	19	23	25	108	ESI2A 9 T
Hose i.D. 10	77	19	23	25	112	ESI2A 10 T
Hose i.D. 13	77	19	23	25	118	ESI2A 13 T

For hose clips type ZOS (☉ page 130), type HS (☉ page 131) or crimping ferrules type LPH (☉ page 133)

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	ESI2A 14 NA
R 3/8 m	42	17	12	25	29	ESI2A 38 NA
R 1/2 m	45	22	15	25	62	ESI2A 12 NA

Plugs with parallel female thread – long version

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	38	17	10	25	29	ESI2A 14 NI
G 3/8 f	38	19	10	25	29	ESI2A 38 NI
G 1/2 f	40	24	12	25	44	ESI2A 12 NI

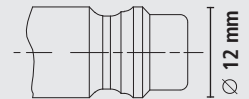
Plugs with hose barb – long version

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	51	12	25	25	17	ESI2A 6 S
Hose i.D. 8	51	12	25	25	19	ESI2A 8 S
Hose i.D. 9	51	12	25	25	19	ESI2A 9 S
Hose i.D. 10	51	12	25	25	22	ESI2A 10 S
Hose i.D. 13	53	15	25	25	30	ESI2A 13 S

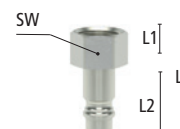
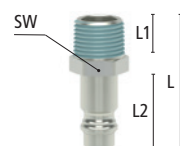
Versions in stainless steel 1.4305 on request.

DN 7.4

Plug Profile (original size)



According to
DIN EN 14594



**Opti®
Flow**
by **LUDECKE**

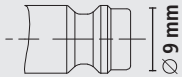


Safety Quick Connect Couplings

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

DN 5

Plug Profile (original size)



- One-hand quick connect couplings with reduced dimensions made of brass MS 58 plain
- Differently coloured anodised knurled aluminium sleeves on the coupling as well as different coloured anodized aluminium rings on the plug for visual identification of different media circuits
- Additional plug coding, to make false coupling impossible when using different media simultaneously (only couplings and plugs of the same colour 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
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)
- Plug: Brass MS 58 plain with anodized aluminium ring

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5	ISO 228	500 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	46	14	16	7	35	ESMK 18 AG	ESMK 18 ABR	ESMK 18 ABL	ESMK 18 AR
G 1/4 m	47	17	16	9	44	ESMK 14 AG	ESMK 14 ABR	ESMK 14 ABL	ESMK 14 AR

Male thread sealing with PVC sealing ring 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	9	40	ESMK 18 IG	ESMK 18 IBR	ESMK 18 IBL	ESMK 18 IR
G 1/4 f	47	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	56	14	16	17	35	ESMK 6 TG	ESMK 6 TBR	ESMK 6 TBL	ESMK 6 TR
Hose i.D. 9	56	14	16	17	37	ESMK 9 TG	ESMK 9 TBR	ESMK 9 TBL	ESMK 9 TR

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Safety Quick Connect Couplings

single shut-off **Series ESMK**

DN 5

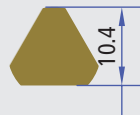
Plug and Colour Coding in original size

green



Ø 10.3

brown



blue



SW 10

red

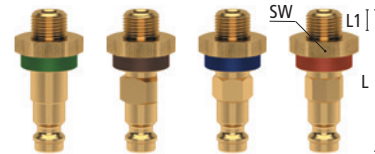


SW 10

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 sealing ring 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

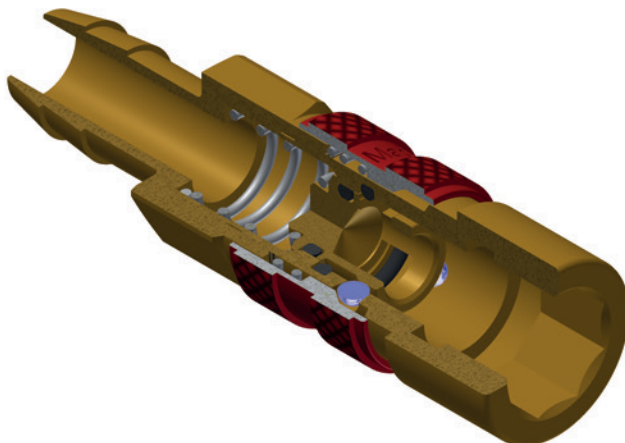
Hose connection	L	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
Hose i.D. 6	47	15	17	12	ESMK 6 SG	ESMK 6 SBR	ESMK 6 SBL	ESMK 6 SR
Hose i.D. 9	47	15	17	15	ESMK 9 SG	ESMK 9 SBR	ESMK 9 SBL	ESMK 9 SR

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)



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

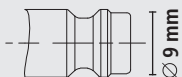


Safety Quick Connect Couplings

Series ESMK with Plug and Colour Coding - double shut-off

DN 5

Plug Profile (original size)



- One-hand quick connect couplings with reduced dimensions made of brass MS 58 plain
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Differently coloured anodised knurled aluminium sleeves on the coupling as well as different coloured anodized aluminium rings on the plug for visual identification of different media circuits
- Additional plug coding, to make false coupling impossible when using different media simultaneously (only couplings and plugs of the same colour can be connected)
- **Attention: Couplings can be connected with straight-through plugs DN 5. However, double shut-off plugs cannot be connected with standard couplings DN 5**

Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve: Aluminium anodized
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)
- Plug: Brass MS 58 plain with anodized aluminium ring

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5	ISO 228	310 l/min	One-hand	Double 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 AABG	ESMK 18 AABBR	ESMK 18 AABBL	ESMK 18 AABR
G 1/4 m	49	17	16	9	44	ESMK 14 AABG	ESMK 14 AABBR	ESMK 14 AABBL	ESMK 14 AABR

Male thread sealing with PVC sealing ring 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 IABG	ESMK 18 IABBR	ESMK 18 IABBL	ESMK 18 IABR
G 1/4 f	49	17	16	9	46	ESMK 14 IABG	ESMK 14 IABBR	ESMK 14 IABBL	ESMK 14 IABR

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
Hose i.D. 6	56	14	16	17	35	ESMK 6 TABG	ESMK 6 TABBR	ESMK 6 TABBL	ESMK 6 TABR
Hose i.D. 9	56	14	16	17	37	ESMK 9 TABG	ESMK 9 TABBR	ESMK 9 TABBL	ESMK 9 TABR

For hose clips type ZOS (☉ page 130), type HS (☉ page 131) or crimping ferrules type LPH (☉ page 133)

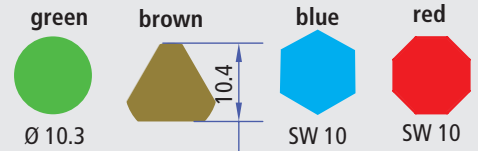


Safety Quick Connect Couplings

double shut-off **Series ESMK**

DN 5

Plug and Colour Coding in 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 NAABG	ESMK 18 NAABBR	ESMK 18 NAABBL	ESMK 18 NAABR
G 1/4 m	41	17	9	25	ESMK 14 NAABG	ESMK 14 NAABBR	ESMK 14 NAABBL	ESMK 14 NAABR

Male thread sealing with PVC sealing ring 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 NIABG	ESMK 18 NIABBR	ESMK 18 NIABBL	ESMK 18 NIABR
G 1/4 f	40	17	7	25	ESMK 14 NIABG	ESMK 14 NIABBR	ESMK 14 NIABBL	ESMK 14 NIABR



Plugs with hose barb

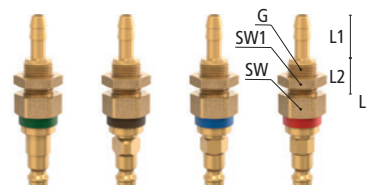
Hose connection	L	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
Hose i.D. 6	47	15	17	12	ESMK 6 SABG	ESMK 6 SABBR	ESMK 6 SABBL	ESMK 6 SABR
Hose i.D. 9	47	15	17	15	ESMK 9 SABG	ESMK 9 SABBR	ESMK 9 SABBL	ESMK 9 SABR

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)



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 SSVABG	ESMK 6 SSVABBR
Hose i.D. 6	63	17	17	14	17	M 12x1 m	40	ESMK 6 SSVABBL	ESMK 6 SSVABR

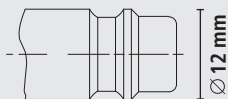


Safety Industrial Quick Connect Couplings

Series ESIFK with Plug and Colour Coding - single shut-off

DN 7.8

Plug Profile (original size)



- Top-quality, extreme robust one-hand quick connect couplings made of brass MS 58 plain
- Differently coloured anodised knurled aluminium sleeves on the coupling as well as different coloured anodized aluminium rings on the plug for visual identification of different media circuits
- Additional plug coding, to make false coupling impossible when using different media simultaneously (only couplings and plugs of the same colour can be connected)
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products

Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve: Aluminium anodized
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)
- Plug: Brass MS 58 plain with anodized aluminium ring

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.8	ISO 228	2000 l/min	One-hand	Single Shut-off	Div.	Europe	Coupl. 1/ Plug 10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
G 1/4 m	59.5	19	23	9	81	ESIFK 14 AG	ESIFK 14 ABR	ESIFK 14 ABL	ESIFK 14 AR
G 3/8 m	62.5	19	23	12	88	ESIFK 38 AG	ESIFK 38 ABR	ESIFK 38 ABL	ESIFK 38 AR
G 1/2 m	62.5	24	23	12	116	ESIFK 12 AG	ESIFK 12 ABR	ESIFK 12 ABL	ESIFK 12 AR

Male thread sealing with PVC sealing ring type HPD

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
G 1/4 f	59.5	19	23	10	90	ESIFK 14 IG	ESIFK 14 IBR	ESIFK 14 IBL	ESIFK 14 IR
G 3/8 f	59.5	19	23	10	83	ESIFK 38 IG	ESIFK 38 IBR	ESIFK 38 IBL	ESIFK 38 IR
G 1/2 f	61.5	24	23	12	118	ESIFK 12 IG	ESIFK 12 IBR	ESIFK 12 IBL	ESIFK 12 IR

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
Hose i.D. 9	75.5	19	23	25	80	ESIFK 9 TG	ESIFK 9 TBR	ESIFK 9 TBL	ESIFK 9 TR

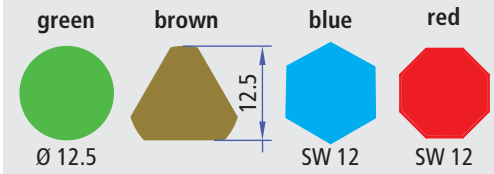
For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

Safety Industrial Quick Connect Couplings

single shut-off **Series ESIFK**

DN 7.8

Plug and Colour coding in original size



Plug with male thread

Thread connection	L	SW	L1	Weight	Type No.	Type No.	Type No.	Type No.
G 1/4 m	36.5	17	9	26	ESIFK 14 NAG	ESIFK 14 NABR	ESIFK 14 NABL	ESIFK 14 NAR
G 3/8 m	36.5	19	9	32	ESIFK 38 NAG	ESIFK 38 NABR	ESIFK 38 NABL	ESIFK 38 NAR
G 1/2 m	37.5	24	10	46	ESIFK 12 NAG	ESIFK 12 NABR	ESIFK 12 NABL	ESIFK 12 NAR

Male thread sealing with PVC sealing ring type HPD



Plug with female thread

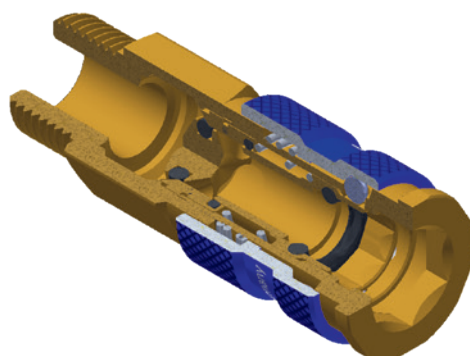
Thread connection	L	SW	L1	Weight	Type No.	Type No.	Type No.	Type No.
G 1/4 f	36.5	17	10	30	ESIFK 14 NIG	ESIFK 14 NIBR	ESIFK 14 NIBL	ESIFK 14 NIR
G 3/8 f	36.5	19	10	31	ESIFK 38 NIG	ESIFK 38 NIBR	ESIFK 38 NIBL	ESIFK 38 NIR
G 1/2 f	38.5	24	12	47	ESIFK 12 NIG	ESIFK 12 NIBR	ESIFK 12 NIBL	ESIFK 12 NIR



Plug with hose barb

Hose connection	L	SW	L1	Weight	Type No.	Type No.	Type No.	Type No.
Hose i.D. 9	50.5	15	25	21	ESIFK 9 SG	ESIFK 9 SBR	ESIFK 9 SBL	ESIFK 9 SR

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)



Quick Connect Couplings with International Plug Profiles



The **LUDECKE** product range contains a large selection of quick connect couplings with international plug profiles. They cover the world's most common used plug profiles and ensure high compatibility. These coupling systems are available from DN 5 to DN 10 - depending on requested flow rates.

LUDECKE offers quick connect couplings customised to the following countries:

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



All series are available in different sizes, connection types, valve types and materials.

Different Sizes and Versions

For better understanding, products with international plug profiles are divided into groups according to country compatibility. However, it is also possible to break them down into the series **Quality-**, **OptiFlow-** and **SafeConnect-Line**.



Quality-Line

Standard Quick Connect Couplings

→ In series ESA DN 5.5 / ESO DN 5.5 / ESK DN 7.5 / F1K DN 8

OptiFlow-Line

Energy-Efficient Quick Connect Couplings with patented OptiFlow by **LUDECKE**® Valve Technology

→ In series ESB DN 5.5 / ESBI DN 5 / ESAI DN 5.5 / ESAIS DN 5.5 / ESOI DN 5.5 / ESOIS DN 5.5 / ESAC DN 8 / ESACG DN 10

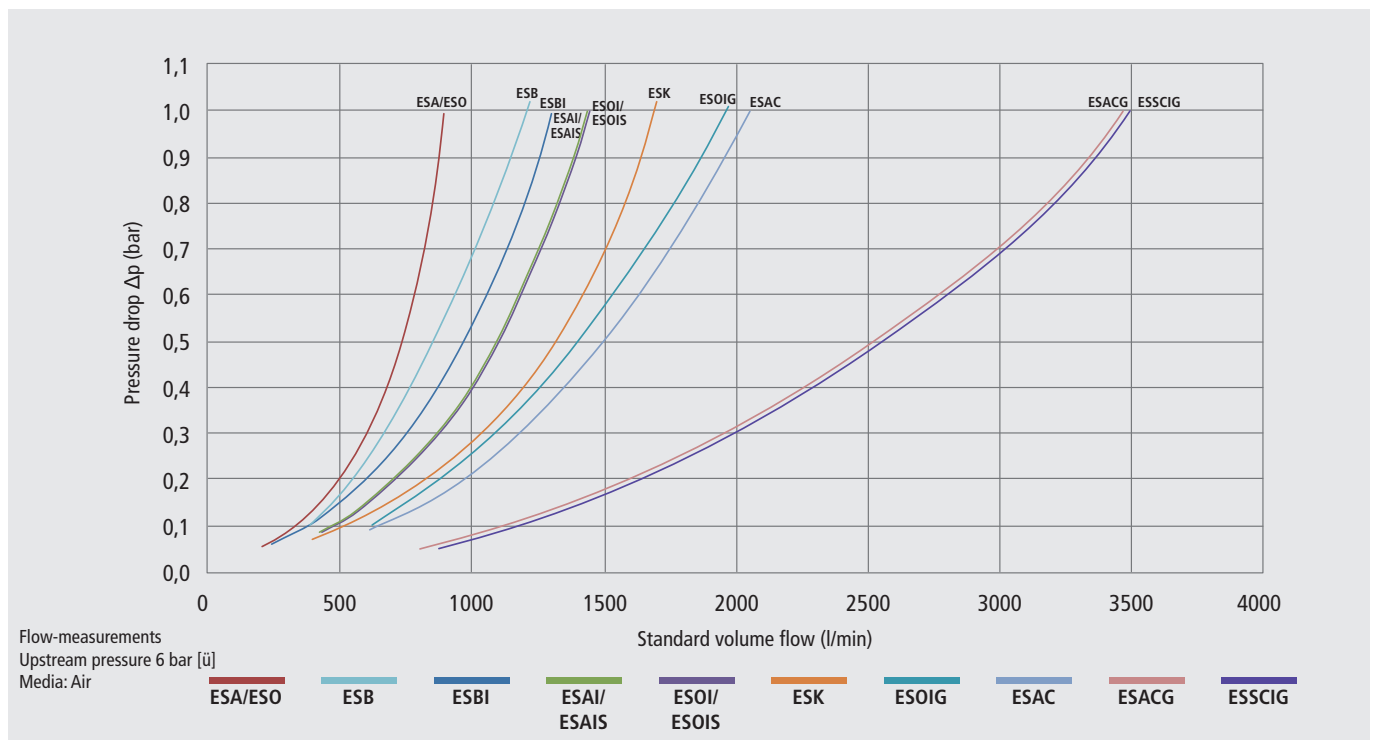
SafeConnect-Line

Quick Connect Couplings for High-Safety Standards

→ In series ESAIS DN 5.5 / ESOIS DN 5.5

Chart of Flow Rates

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

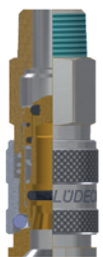
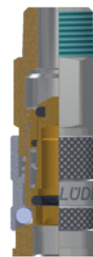
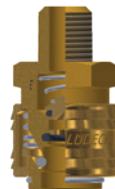
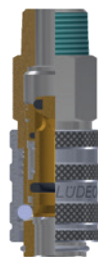
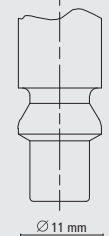
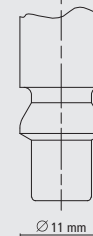
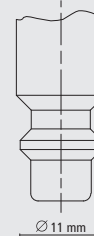
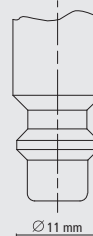
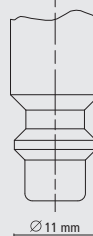


Overview of Quick Connect Couplings with

NEW!

Series **ESB** **ESBI** **ESA** **ESAI** **ESAIS** **ESO** **ESOI**
 DN 5.5 DN 5 DN 5.5 DN 5.5 DN 5.5 DN 5.5 DN 5.5

Plug Profile
(original size)



Materials

Body:	MS 58 nickel-plated	MS 58 nickel-pl.	MS 58 plain	MS 58 nickel-pl.	MS 58 nickel-pl.	MS 58 plain	MS 58 nickel-pl.
Sleeve:	Steel hardened + nickel-pl	Steel hardened + nickel-pl.	MS 58 plain	Steel hardened + nickel-pl.	Steel hardened + nickel-pl.	MS 58 plain	Steel hardened + nickel-pl.
Valve body:	MS 58 nickel-plated	Steel hardened + zinc-pl	MS 58 plain	MS 58 nickel-plated	MS 58 nickel-plated	MS 58 plain	MS 58 nickel-plated
Valve:	MS 58 plain	MS 58 plain	MS 58 plain	MS 58 plain	MS 58 plain	MS 58 plain	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	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	-	Stainless Steel 1.4034
Pins:	-	-	Stainless Steel 1.4305	-	-	Stainless Steel 1.4305	-
Seals:	NBR	NBR	NBR	NBR	NBR	NBR	NBR
Special seals for other media on request:	-	EPDM/ FKM/ FFKM	EPDM/ FKM/ FFKM	EPDM/ FKM/ FFKM	EPDM/ FKM/ FFKM	EPDM/ FKM/ FFKM	EPDM/ FKM/ FFKM
Plug:	Steel hardened + nickel-plated	Steel hardened + nickel-plated	MS 58 plain/ Steel zinc-pl.+ yellow passivated	Steel hardened + nickel-plated	Steel hardened + nickel-plated	MS 58 plain	Steel hardened + nickel-plated
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 type:	ISO 228/ DIN EN 10226	ISO 228/ DIN EN 10226	ISO 228/ NPT	ISO 228/ DIN EN 10226	ISO 228/ DIN EN 10226	ISO 228	ISO 228/ DIN EN 10226
Max. Flow Capacity: at 6 bar (ü) and 0.5 bar Pressure drop Single shut-off	800 l/min	950 l/min	775 l/min	1100 l/min	1100 l/min	775 l/min	1140 l/min
Type of valve:	single	single	single	single	single	single	single
Operation:	One-Hand	One-Hand	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"	ISO 6150 B US-MIL-Spec. C4109 Industr. Interchange 1/4"	-	-
Interchange:	Parker Rectus Series 19 PCL60 (UK)	Parker Rectus Series 17 Schrader NW5	Parker Rectus Series 23/24, Hansen 3000, Cejn 310, Milton, Gromelle 600	Parker Rectus Series 23/24, Hansen 3000, Cejn 310, Milton, Gromelle 600	Parker Rectus Series 23/24, Hansen 3000, Cejn 310, Milton, Gromelle 600	Parker Rectus Series 14/22, ARO 210, Cejn 300, Orion 44510, Parker 50	Parker Rectus Series 14/22, ARO 210, Cejn 300, Orion 44510, Parker 50
Area:	Great Britain	Great Britain, Europe	USA, Spain, France	USA, Spain, France	USA, Spain, France	Benelux, Switzerland	Benelux, Switzerland
Page:	86	87	88	90	91	92	93

International Plug Profiles

NEW!

ESOIS
DN 5.5

ESOIG
DN 9

ESK
DN 7.5

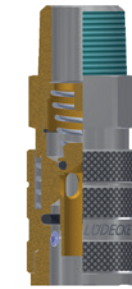
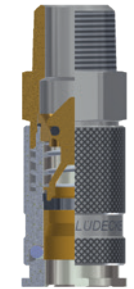
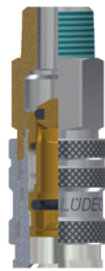
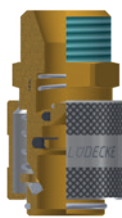
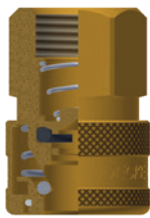
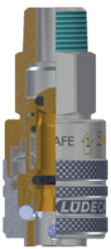
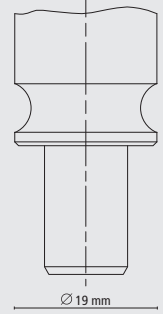
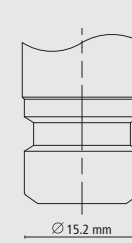
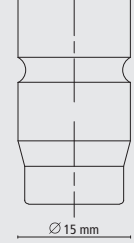
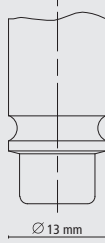
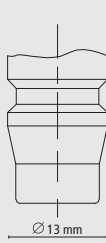
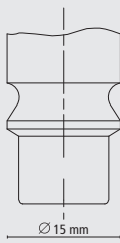
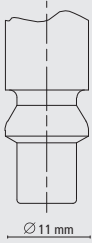
ESAC
DN 8

ESACG
DN 10

NEW!

ESSCIG
DN 10

F1K
DN 8



MS 58 nickel-plated
Steel hardened + nickel-pl.
MS 58 nickel-plated
MS 58 plain
Stainless Steel 1.4310
Stainless Steel 1.4034
-
NBR
EPDM/ FKM/ FFKM
Steel hardened + nickel-plated
PN 12 bar
-20°C – +100°C
ISO 228/ DIN EN 10226
1140 l/min
single
One-Hand
-
Parker Rectus Series 14/22, ARO 210, Cejn 300, Orion 44510, Parker 50
Benelux, Switzerland
94

MS 58 plain
MS 58 plain
MS 58 plain
MS 58 plain
Stainless Steel 1.4310
-
Stainless Steel 1.4305
NBR
EPDM/ FKM/ FFKM
Steel hardened + nickel-plated
PN 35 bar
-20°C – +100°C
ISO 228/ DIN EN 10226
1400 l/min
single
One-Hand
-
Rectus Series 40 KA, ARO 310, Orion 44520, Orion 44530
Benelux, Switzerland
95

MS 58 plain
MS 58 nickel-pl.
MS 58 plain
MS 58 plain
Stainless Steel 1.4310
-
Stainless Steel 1.4305
NBR
EPDM/ FKM/ FFKM
Steel hardened + nickel-plated
PN 35 bar
-20°C – +100°C
ISO 228/ DIN EN 10226
1375 l/min
single
One-Hand
-
Parker Rectus Series 13/03, Nitto Kohki 200 Cejn 314/315
especially Asia
96

MS 58 nickel-plated
Steel hardened + nickel-pl.
Steel hardened + zinc-pl.
MS 58 plain
Stainless Steel 1.4310
Stainless Steel 1.4034
-
NBR
EPDM/ FKM/ FFKM
Steel hardened + zinc-plated
PN 35 bar
-20°C – +100°C
ISO 228/ DIN EN 10226
1650 l/min
single
One-Hand
-
Parker Rectus Series 33 Atlas Copco QIC 10
worldwide
97

MS 58 nickel-plated
Steel hardened + nickel-pl.
Steel zinc-plated
MS 58 plain
Stainless Steel 1.4310
Stainless Steel 1.4034
-
NBR
EPDM/ FKM
Steel hardened + nickel-plated
PN 35 bar
-20°C – +100°C
ISO 228/ DIN EN 10226
2600 l/min
single
One-Hand
-
Parker Rectus Series 34 KA, Atlas Copco QIC 15
worldwide
98

MS 58 nickel-plated
MS 58 nickel-plated
MS 58 plain
Stainless Steel 1.4310
Stainless Steel 1.4034
-
NBR
EPDM/ FKM
Steel nickel-plated/ MS 58 nickel-plated
PN 35 bar
-20°C – +100°C
ISO 228/ DIN EN 10226
2900 l/min
single/double
One-Hand/ Two-Hands
-
Parker Rectus Series 32, Cejn 408, Tema 1800 SF
Scandinavia
99

Steel zinc-pl.+yellow pass
Steel zinc-pl.+yellow pass.
Steel zinc-pl.+yellow pass.
MS 58 plain
Stainless Steel 1.4310
Stainless Steel 1.4034
-
NBR
EPDM/ FKM/ FFKM
Steel zinc-plated + yellow passivated
PN 35 bar
-20°C – +100°C
ISO 228
1800 l/min
single
Two-Hands
-
-
worldwide
101

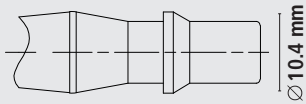
Steel zinc-pl. + yellow pass. = Steel zinc-plated and yellow passivated

Quick Connect Couplings

Series ESB single shut-off

DN 5.5

Plug Profile (original size)



- Top-quality, extreme robust one-hand quick connect couplings with British plug profile made of brass MS 58 nickel-plated
- Closed sleeve design protects the coupling from dirt
- Hose barb profile for safe hose fit and easy assembly
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE®** valve technology
- For compressed air supply 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 nickel-plated
- Seals: NBR
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Pressure	Temperature	DN	Thread	Flow Cap.	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5,5	ISO 228 / DIN EN 10226	800 l/min	One-hand	Single Shut-off	Div.	UK	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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

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

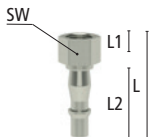
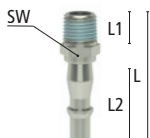
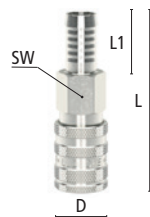
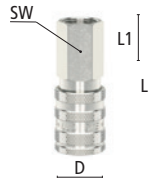
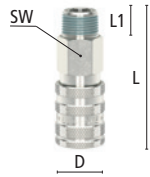
Plugs with parallel female thread

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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Industrial Quick Connect Couplings

single shut-off **Series ESBI**

- Top-quality, extreme robust one-hand quick connect couplings with British plug profile made of brass MS 58 nickel-plated
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Special versions on request i.e. couplings with straight-through or double shut-off valve
- For compressed air supply as well as liquid or gaseous media in industry and craftsmanship

Materials

- Body: Brass MS 58 nickel-plated
- Sleeve, plug: Hardened steel nickel-plated
- Valve body: Hardened steel zinc-plated
- Valve: Brass MS 58 plain
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310 • Balls: Stainless steel 1.4034

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	5	ISO 228 / DIN EN 10226	950 l/min	One-hand	Single Shut-off	Div.	EU + UK	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	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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

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

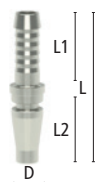
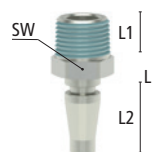
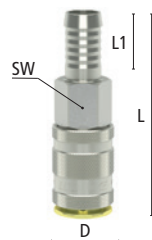
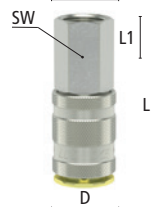
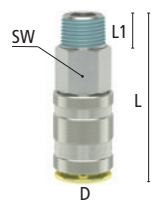
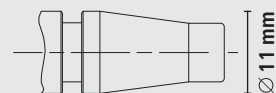
Plugs with hose barb

Hose connection	L	D	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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

DN 5

Plug Profile (original size)



Opti®
Flow
by **LUDECKE**

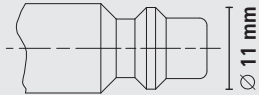


Quick Connect Couplings

Series ESA single shut-off

DN 5.5

Plug Profile (original size)



- Top-quality one-hand quick connect couplings made of brass MS 58 plain
- Plug profile according to ISO 6150 B and US Mil.-Spec. C4109
- Closed sleeve design protects the coupling from dirt
- Hose barb profile for safe hose fit and easy assembly
- Thread types available with NPT or BSP threads
- For compressed air supply 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
- Seals: NBR (other materials on request)
- Plug: Brass MS 58 plain or steel zinc-plated and yellow passivated (free of chrome VI)

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	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

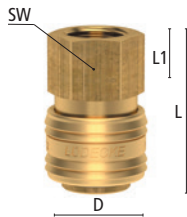
Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 m	40	22	27	9	75	ESA 14 AR
G 3/8 m	41	22	27	10	78	ESA 38 AR
G 1/2 m	41	24	27	10	88	ESA 12 AR
NPT 1/4 m	45	22	27	13.5	81	ESA 14 A
NPT 3/8 m	46	22	27	14.5	84	ESA 38 A
NPT 1/2 m	50	22	27	18	105	ESA 12 A

Male thread sealing with PVC sealing ring type HPD (☺ Page 212)



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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

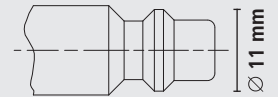


Quick Connect Couplings

single shut-off **Series ESA**

DN 5.5

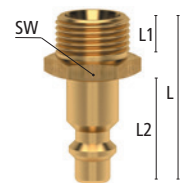
Plug Profile (original size)



Plugs with male thread

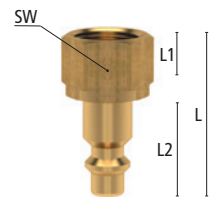
Thread connection	L	SW	L1	L2	Material	Weight	Type No.
G 1/8 m	35	13	7	24	MS 58	19	ESA 18 NAR
G 1/4 m	37	17	9	24	MS 58	23	ESA 14 NAR
G 3/8 m	38	19	9	24	MS 58	31	ESA 38 NAR
NPT 1/8 m	38	13	9.5	24	MS 58	23	ESA 18 NA
NPT 1/4 m	41	14	13	24	MS 58	25	ESA 14 NA
NPT 3/8 m	42	17	13	24	MS 58	31	ESA 38 NA
NPT 1/4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

Male thread sealing with PVC sealing ring type HPD (© Page 212)



Plugs with female thread

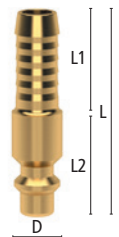
Thread connection	L	SW	L1	L2	Material	Weight	Type No.
G 1/8 f	35	13	9	24	MS 58	18	ESA 18 NIR
G 1/4 f	38	17	12	24	MS 58	27	ESA 14 NIR
G 3/8 f	39	19	12	24	MS 58	26	ESA 38 NIR
NPT 1/8 f	35	13	10	24	MS 58	20	ESA 18 NI
NPT 1/4 f	40	17	14	24	MS 58	29	ESA 14 NI
NPT 3/8 f	42	21	15	24	MS 58	40	ESA 38 NI
NPT 1/4 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	MS 58	17	ESA 6 S
Hose i.D. 9	48	12	24	24	MS 58	21	ESA 9 S
Hose i.D. 13	48	15	23	24	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 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)



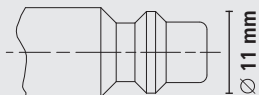
Special versions on request.

Industrial Quick Connect Couplings

Series ESAI single shut-off

DN 5.5

Plug Profile (original size)



- Top-quality extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Plug profile according to ISO 6150 B and US Mil.-Spec. C4109
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Special versions on request i.e. couplings with squeeze nut
- For compressed air supply as well as liquid or gaseous media in industry and craftsmanship

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Sleeve, plug: Hardened steel nickel-plated
- Valve: Brass MS 58 plain
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5.5	ISO 228 / DIN EN 10226	1100 l/min	One-hand	Single Shut-off	Compr. Air	USA, F, SP	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	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.
Hose i.D. 6	73	19	23	25	92	ESAI 6 T
Hose i.D. 8	73	19	23	25	95	ESAI 8 T
Hose i.D. 9	73	19	23	25	96	ESAI 9 T
Hose i.D. 10	73	19	23	25	99	ESAI 10 T
Hose i.D. 13	73	19	23	25	105	ESAI 13 T

For hose clips type ZOS (☉ page 130), type HS (☉ page 131) or crimping ferrules type LPH (☉ page 133)

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

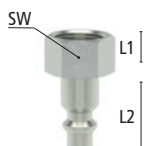
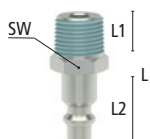
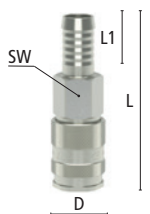
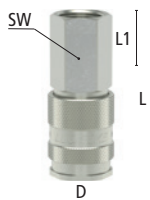
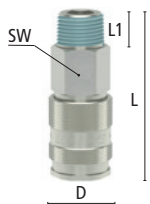
Plugs with parallel female thread

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 130), type HS (☉ page 131) or crimping ferrules type LPH (☉ page 133)



Opti®
Flow
by **LUDECKE**



According to
ISO 4414/
DIN EN 983/ BIA

Safety Self-Venting Couplings

with Sleeve Concept - single shut-off Series ESAIS

- Top-quality, ergonomic and very robust one-hand quick connect couplings made of brass MS 58 nickel-plated with hardened steel sleeve and perfect sealing as well as compact dimensions
- Plug profile according to ISO 6150 B and US Mil.-Spec. C4109
- Very easy to connect, disconnection in two steps by pushing and pulling the sleeve in direction of arrow. Self-venting after step 1, safe decoupling after step 2
- Safe protection against whiplash-effect at best usability
- For safe handling of flexible compressed air lines
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE®** valve technology
- **Attention: safe operation can only be guaranteed when using hardened steel plugs**

Materials

- Body, valve body: Brass MS 58 nickel-plated • Valve: Brass MS 58 plain
- Sleeve, plug: Hardened steel nickel-plated
- Seals: NBR (other materials on request) • Springs: Stainless steel 1.4310 • Balls: Stainless steel 1.4034

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 12 bar	-20°C – +100°C	5.5	ISO 228/DIN EN 10226	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	62	19	28	11	138	ESAIS 14 A
R 3/8 m	63	19	28	12	147	ESAIS 38 A
R 1/2 m	65	22	28	15	144	ESAIS 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	58	19	28	10	146	ESAIS 14 I
G 3/8 f	58	19	28	10	144	ESAIS 38 I
G 1/2 f	60	24	28	12	160	ESAIS 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	75	19	28	25	136	ESAIS 6 T
Hose i.D. 8	75	19	28	25	136	ESAIS 8 T
Hose i.D. 9	75	19	28	25	138	ESAIS 9 T
Hose i.D. 10	75	19	28	25	138	ESAIS 10 T
Hose i.D. 13	75	19	28	25	141	ESAIS 13 T

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

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

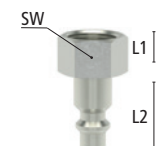
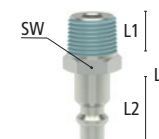
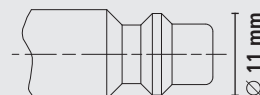
Plugs with hose barb

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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

DN 5.5

Plug Profile (original size)



**Opti®
Flow**
by **LUDECKE**

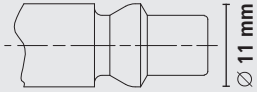


Quick Connect Couplings

Series ESO single shut-off

DN 5.5

Plug Profile (original size)



- Top-quality one-hand quick connect couplings made of brass MS 58 plain
- Plug profile according to ARO 210, ORION 44510
- Closed sleeve design protects the coupling from dirt
- Hose barb profile for safe hose fit and easy assembly
- For compressed air supply in industry, craftsmanship, hobbies, etc.

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 plain
- Springs, retaining ring: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- Seals: NBR (other materials on request)

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	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 sealing ring type HPD (☺ page 212)

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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

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 sealing ring type HPD (☺ page 212)

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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Special versions on request.

Industrial Quick Connect Couplings

single shut-off **Series ESOI**

- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Plug profile according to ARO 210, Orion 44510
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Special versions on request i.e. couplings with squeeze nut
- For compressed air supply as well as liquid or gaseous media in industry and craftsmanship

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Sleeve, plug: Hardened steel nickel-plated
- Valve: Brass MS 58 plain
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	5.5	ISO 228 / DIN EN 10226	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	62	19	23	11	95	ESOI 14 A
R 3/8 m	62	19	23	12	98	ESOI 38 A
R 1/2 m	65	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 130), type HS (☹ page 131) or crimping ferrules type LPH (☹ page 133)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	33	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

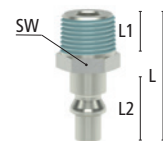
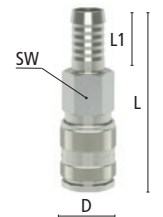
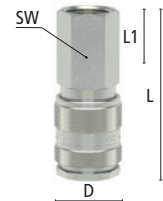
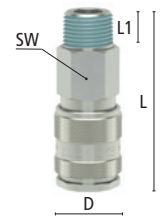
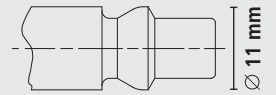
Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	47	11	23	22	14	ESOI 6 SS
Hose i.D. 8	47	11	23	22	15	ESOI 8 SS
Hose i.D. 9	47	11	23	22	16	ESOI 9 SS
Hose i.D. 10	46	11	23	22	18	ESOI 10 SS
Hose i.D. 13	47	15	23	22	24	ESOI 13 SS

For hose clips type ZOS (☹ page 130), type HS (☹ page 131) or crimping ferrules type LPH (☹ page 133)

DN 5.5

Plug Profile (original size)



Opti®
Flow
by **LUDECKE**



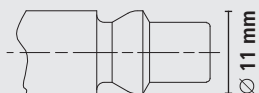
Safety Self-Venting Couplings

Series ESOIS with Sleeve-Concept - single shut-off

According to
ISO 4414/
DIN EN 983/ BIA

DN 5.5

Plug Profile (original size)



- Top-quality, ergonomic and very robust one-hand quick connect couplings made of brass MS 58 nickel-plated with hardened steel sleeve and perfect sealing as well as compact dimensions
- Plug profile according to ARO 210, ORION 44510
- Very easy to connect, disconnection in two steps by pushing and pulling the sleeve in direction of arrow. Self-venting after step 1, safe decoupling after step 2
- Safe protection against whiplash-effect at best usability
- For safe handling of flexible compressed air lines
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- **Attention: safe operation can only be guaranteed when using hardened steel plugs**

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve, plug: Hardened steel nickel-plated
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 12 bar	-20°C – +100°C	5.5	ISO 228/DIN EN 10226	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	64	19	28	11	148	ESOIS 14 A
R 3/8 m	65	19	28	12	151	ESOIS 38 A
R 1/2 m	67	22	28	15	179	ESOIS 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	61	19	28	10	152	ESOIS 14 I
G 3/8 f	61	19	28	10	146	ESOIS 38 I
G 1/2 f	63	24	28	12	181	ESOIS 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	77	19	28	25	143	ESOIS 6 T
Hose i.D. 8	77	19	28	25	143	ESOIS 8 T
Hose i.D. 9	77	19	28	25	145	ESOIS 9 T
Hose i.D. 10	77	19	28	25	145	ESOIS 10 T
Hose i.D. 13	77	19	28	25	148	ESOIS 13 T

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	33	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	23	22	14	ESOI 6 SS
Hose i.D. 8	47	11	23	22	15	ESOI 8 SS
Hose i.D. 9	47	11	23	22	16	ESOI 9 SS
Hose i.D. 10	46	11	23	22	18	ESOI 10 SS
Hose i.D. 13	47	15	23	22	24	ESOI 13 SS

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

OptiFlow
by **LUDECKE**



Quick Connect Couplings

single shut-off Series ESOIG

- Top-quality, extreme robust quick connect couplings made of brass MS 58 plain (on request nickel-plated) with high-class sealing
- Plug profile according to ARO 310, Orion 44520
- High flow rate at a low pressure drop due to streamlined valve
- For compressed air supply as well as liquid or gaseous media in industry and craftsmanship

Materials

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

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	9	ISO 228 / DIN EN 10226	1400 l/min	One-hand	Single Shut-off	Compr. Air	BeNeLux, CH.	10

Couplings with parallel 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

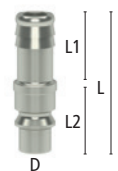
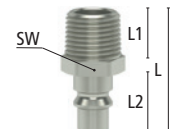
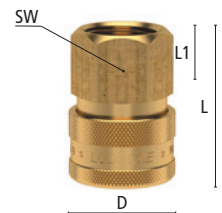
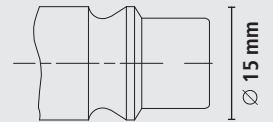
Plugs with hose barb

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 130), type HS (☹ page 131) or crimping ferrules type LPH (☹ page 133)

DN 9

Plug Profile (original size)

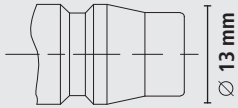


Quick Connect Couplings

Series ESK single shut-off

DN 7.5

Plug Profile (original size)



- Universal one-hand quick connect couplings made of brass MS 58 plain/ nickel plated, mainly used in the Asian market, interchangeable with type Nitto Kohki, one-hand operation
- For compressed air supply in industry, craftsmanship, hobbies, etc.

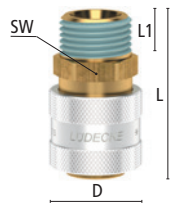
Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve: Brass MS 58 nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- Seals: NBR (other materials on request)
- Plug: Hardened steel nickel-plated

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.5	ISO 228 / DIN EN 10226	1375 l/min	One-hand	Single Shut-off	Compr. Air	Asia	10

Couplings with tapered male thread, 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



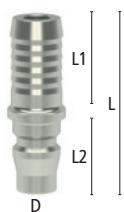
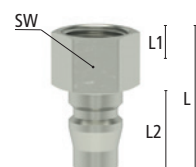
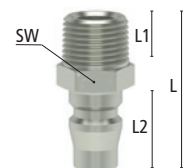
Couplings with female thread

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

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 6	59.5	27	23	69	ESK 6 T
Hose i.D. 8	59.5	27	24	73	ESK 8 T
Hose i.D. 10	59.5	27	24	75	ESK 10 T
Hose i.D. 13	59.5	27	25	80	ESK 13 T

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)



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 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

Industrial Quick Connect Couplings

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

- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Special versions on request i.e. couplings with straight-through or double shut-off valve
- For compressed air supply in industry and craftsmanship

Materials

- Body: Brass MS 58 nickel-plated
- Sleeve: Steel hardened and nickel-plated
- Valve body, plug: Hardened steel zinc-plated
- Valve: Brass MS 58 plain
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310 • Balls: Stainless steel 1.4034

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	8	ISO 228 / DIN EN 10226	1650 l/min	One-hand	Single Shut-off	Compr. Air	Worldwide	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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

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

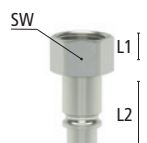
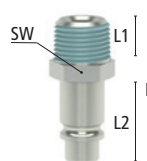
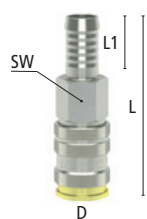
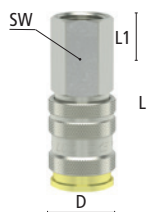
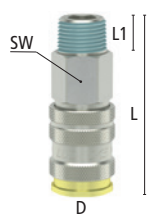
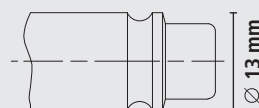
Plugs with hose barb

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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

DN 8

Plug Profile (original size)



OptiFlow
by **LUDECKE**

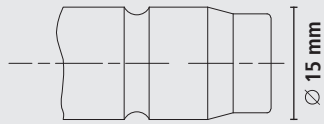


Industrial Quick Connect Couplings

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

DN 10

Plug Profile (original size)



- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- For compressed air supply in industry and craftsmanship

Material

- Body: Brass MS 58 nickel-plated
- Valve body: Steel zinc-plated
- Valve, guiding sleeve: Brass MS 58 plain
- Sleeve, plug: Hardened steel and nickel-plated
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	10	ISO 228 / DIN EN 10226	2600 l/min	One-hand	Single Shut-off	Compr. Air	Worldwide	Coupl. 5 / Plug 10

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 parallel 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	68	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	L	SW	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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

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

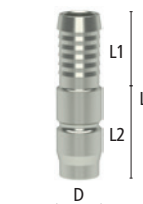
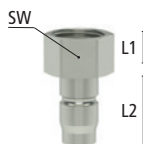
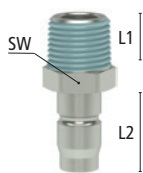
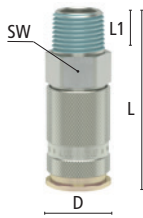
Plugs with parallel female thread

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.Nr.
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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Industrial Quick Connect Couplings

single shut-off Series ESSCIG

- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Very high flow rates at low pressure drop due to streamlined valve and optimised passage
- Suitable for low vacuum at low couple force compared to all other compatible products
- For compressed air supply in industry and handcraft at extraction points with extremely high flow rates for high-performance tools as well as in engineering and construction

Material

- Body, sleeve, valve body: Brass MS 58 nickel-plated
- Plug: Steel nickel-plated
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: NBR (other materials on request)
- Valve: Brass MS 58 plain

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	10	ISO 228/DIN EN 10226	2900 l/min	One-hand	Single Shut-off	Air/Others	Scandinavia	Coupl. S / Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	67	24	27	12	149	ESSCIG 14 A
R 3/8 m	67	24	27	12	157	ESSCIG 38 A
R 1/2 m	69	24	27	17	161	ESSCIG 12 A
R 3/4 m	69	27	27	17	169	ESSCIG 34 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	60	24	27	10	150	ESSCIG 14 I
G 3/8 f	60	24	27	11	159	ESSCIG 38 I
G 1/2 f	60	24	27	12	149	ESSCIG 12 I
G 3/4 f	64	32	27	16	214	ESSCIG 34 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 9	80	24	27	25	164	ESSCIG 9 T
Hose i.D. 10	80	24	27	25	164	ESSCIG 10 T
Hose i.D. 13	80	24	27	25	166	ESSCIG 13 T
Hose i.D. 16	80	24	27	25	166	ESSCIG 16 T
Hose i.D. 19	80	24	27	25	174	ESSCIG 19 T

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	39	17	12	21	30	ESSCIG 14 NAS
R 3/8 m	39	17	12	21	32	ESSCIG 38 NAS
R 1/2 m	43	22	17	21	35	ESSCIG 12 NAS
R 3/4 m	46	27	19	21	37	ESSCIG 34 NAS

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	36	17	10	21	36	ESSCIG 14 NIS
G 3/8 f	36	17	11	21	42	ESSCIG 38 NIS
G 1/2 f	39	24	12	21	41	ESSCIG 12 NIS
G 3/4 f	42	32	16	21	43	ESSCIG 34 NIS

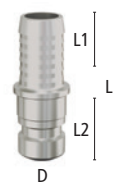
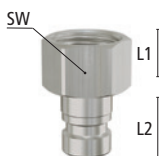
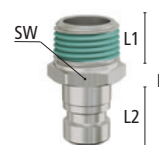
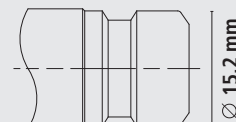
Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 9	44	16	25	21	24	ESSCIG 9 SS
Hose i.D. 10	44	16	25	21	24	ESSCIG 10 SS
Hose i.D. 13	44	16	25	21	28	ESSCIG 13 SS
Hose i.D. 16	44	18	25	21	30	ESSCIG 16 SS
Hose i.D. 19	44	21	25	21	35	ESSCIG 19 SS

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

DN 10

Plug Profile (original size)

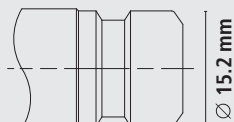


Industrial Quick Connect Couplings

Series ESSCIG double shut-off

DN 10

Plug Profile (original size)



- Top-quality, extreme robust quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Very high flow rates with low pressure drop due to streamlined valve and optimised passage
- Suitable for low vacuum at low couple force compared to all other compatible products
- **Attention: Single shut-off and double shut-off systems cannot be combined with one another**
- **For compressed air supply in industry and handcraft at extraction points with extremely high flow rates for high-performance tools as well as in engineering and construction**

Materials

- Body, sleeve, valve body, plug: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Springs: Stainless steel 1.4310 • Balls: Stainless steel 1.4034 • Seals: NBR (other materials on request)

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	10	ISO 228/DIN EN 10226	2650 l/min	Two-hands	Double Shut-off	Air/Others	Scandinavia	Coupl. 5 / Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	67	24	27	12	149	ESSCIG 14 AAB
R 3/8 m	67	24	27	12	157	ESSCIG 38 AAB
R 1/2 m	69	24	27	17	161	ESSCIG 12 AAB
R 3/4 m	69	27	27	17	169	ESSCIG 34 AAB

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	60	24	27	10	150	ESSCIG 14 IAB
G 3/8 f	60	24	27	11	159	ESSCIG 38 IAB
G 1/2 f	60	24	27	12	149	ESSCIG 12 IAB
G 3/4 f	64	32	27	16	214	ESSCIG 34 IAB

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 9	80	24	27	25	164	ESSCIG 9 TAB
Hose i.D. 10	80	24	27	25	164	ESSCIG 10 TAB
Hose i.D. 13	80	24	27	25	166	ESSCIG 13 TAB
Hose i.D. 16	80	24	27	25	166	ESSCIG 16 TAB
Hose i.D. 19	80	24	27	25	174	ESSCIG 19 TAB

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	61	24	12	21	105	ESSCIG 14 NAAB
R 3/8 m	61	24	12	21	107	ESSCIG 38 NAAB
R 1/2 m	63	24	17	21	142	ESSCIG 12 NAAB
R 3/4 m	63	27	17	21	152	ESSCIG 34 NAAB

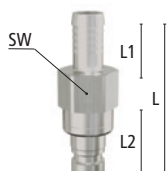
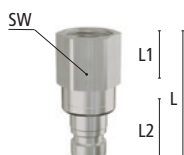
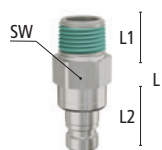
Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	55	24	11	21	122	ESSCIG 14 NIAB
G 3/8 f	55	24	11	21	124	ESSCIG 38 NIAB
G 1/2 f	55	24	12	21	140	ESSCIG 12 NIAB
G 3/4 f	59	32	16	21	152	ESSCIG 34 NIAB

Plugs with hose barb

Hose connection	L	SW	L1	L2	Weight	Type No.
Hose i.D. 9	74.5	24	25	21	110	ESSCIG 9 SAB
Hose i.D. 10	74.5	24	25	21	110	ESSCIG 10 SAB
Hose i.D. 13	74.5	24	25	21	112	ESSCIG 13 SAB
Hose i.D. 16	74.5	24	25	21	112	ESSCIG 16 SAB
Hose i.D. 19	74.5	24	25	21	107	ESSCIG 19 SAB

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Quick Connect Couplings

made of steel - single shut-off **Series F1K**

DN 8

- Extreme robust quick connect couplings for toughest working conditions i.e. in foundries

Materials

- Body, sleeve, valve body, plug: Steel zinc-plated and yellow passivated (free of chrome VI)
- Valve: Brass MS 58 plain
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: NBR (other materials on request)

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	8	ISO 228	1800 l/min	Two-hands	Single Shut-off	Compr. Air	Worldwide	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 sealing ring type HPD (☺ page 212)

Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 m	51	19	10	34	54	F1K 38 G

Male thread sealing with PVC sealing ring type HPD (☺ page 212)

Plugs with female thread

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

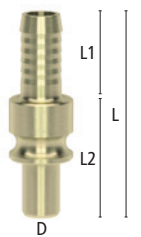
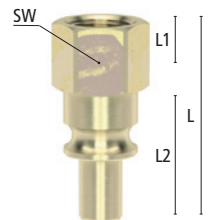
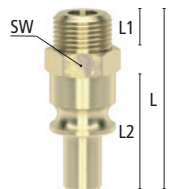
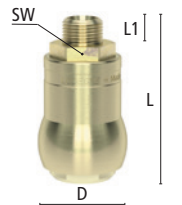
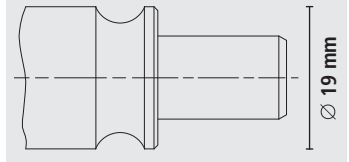
Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	60	19	25	35	39	F1K 6 S
Hose i.D. 9	60	19	25	35	39	F1K 9 S
Hose i.D. 11	60	19	25	35	43	F1K 11 S
Hose i.D. 13	60	19	25	35	45	F1K 13 S

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Special versions on request.

Plug Profile (original size)



Pneumatic Accessories

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

MODY Spiral Hoses made of Polyurethane



MODY spiral hoses have excellent properties allowing for flexible supply of compressed air. Even after severe deformation, MODY spiral hoses re-take their original shape. Despite their wide range, the spiral hoses make work much safer. We recommend to install them on the ceiling and to use high-quality, reusable and rotatable fittings with bend protection.

- Compressed Air Blow-off Sets
- MODY Spiral Hoses
- A:S:S Antistatic Spiral Hoses
- Flamex-Spark Protecting and Hot Water Spiral Hoses
- MODY Duo Spiral Hoses
- MODY CleanConnect Spiral Hoses
- Accessories for MODY Spiral Hoses
- MODY Spiral Hose Fittings

For a detailed description of **LUDECKE** MODY spiral hoses, please turn to page 104.

Blow-off Guns and Valves



For thorough and fast cleaning or drying of work pieces and worktops, compressed air blow-off guns and valves are chosen. Various types of nozzles offer the right dosage, the required air volume as well as low noise levels. For flexible use, we recommend a combination with MODY spiral hoses.

- Blow-off Valves made of Aluminium/ Brass/ Stainless Steel
- Blow-off Guns made of Aluminium/ Plastic
- Nozzles and Spare Parts for Compressed Air Blow-off Valves and Guns

Pneumatic Fittings



At **LUDECKE** you will get an extensive range of connecting fittings made of brass for various fields and applications.

- Pneumatic 1/3-Screwings made of Brass Plain
- Pneumatic 2/3-Screwings made of Brass Plain
- Pneumatic Fittings made of Brass Plain or Brass Nickel-Plated

Hexagon Ball Valves



Ball valves serve as shut-off fittings in pipe lines for compressed air and other media. They are especially suitable for industrial applications and seal through PTFE seals. Due to the compact control lever, miniature ball valves are ideally suited for very tight spaces.

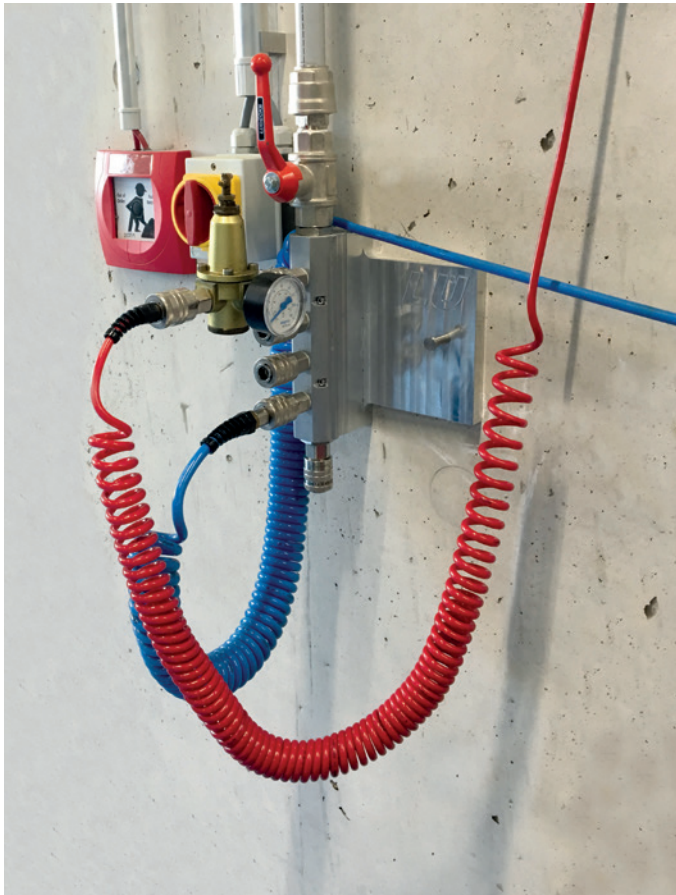
Hose Clamps, Hose Clips, Ferrules



To fix hoses to fittings, different assembly methods can be used ranging from robust clamps to light clips to ferrules. The assembly method depends on the application, media, pressure or hose material. Criteria are: safety level of fixation, removability, easiness and devices needed for assembly as well as cleanliness and protection against injury.

- Double-Ear Hose Clips
- High-Performance Hose Clips made of Steel or Stainless Steel
- Ferrules for Low Pressure Hose Lines
- Hand-Operated Assembly Machine

MODY Spiral Hoses made of Polyurethane



The polyurethane hoses are indispensable to any industrial undertaking. These multifunctional products 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.

Advantages of the **LUDECKE** MODY Spiral Hose:

- Flexible supply of media: Even after severe deformation, the hose retake their original shape (extreme, enduring coil memory)
- Space saving despite a wide range
- Best mechanical properties: high resistance to abrasion, pressure, wear and kinking
- Free of plasticisers, heavy metals and silicone, recyclable, resistant to oil, antifreeze and fuels
- Various sizes for diverse operations

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

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.

First-class Suppliers

- Accredited suppliers from Germany
- Quality, service and sustainability
- Profound know-how and problem solving competence
- Optimised manufacturing

Premium Materials

- Selected raw materials
- Narrowest manufacturing tolerances
- Strict calibration
- Adapted to all needs: Polyester based – Polyether based

In-house Production

- Superior production machinery
- Qualified employees
- Continuous quality surveillance
- Permanent market orientation
- High flexibility

Selection & Service

- Various materials, lengths, diameters, colours, connections
- From straight meter goods to complete blow-off sets
- Individual custom-made products

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. Manufacturing, processing parameters as well as the entire machinery and staff in charge are trained and optimised as best as possible. Profound know-how and problem solving competence is a top priority!

Premium Materials

Raw Material

We only use premium hoses made of elastollan. This offers 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 often work with a so-called "re-granulate" (multiply processed raw material). This essentially decreases the mechanical properties of the hose (e.g. pressure resistance especially with 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. Thus, 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 to provide every customer the best product, **LUDECKE** offers two different polyurethane materials: polyester based polyurethane and polyether based polyurethane. The main difference is the molecular structure.

Polyester-based Polyurethane

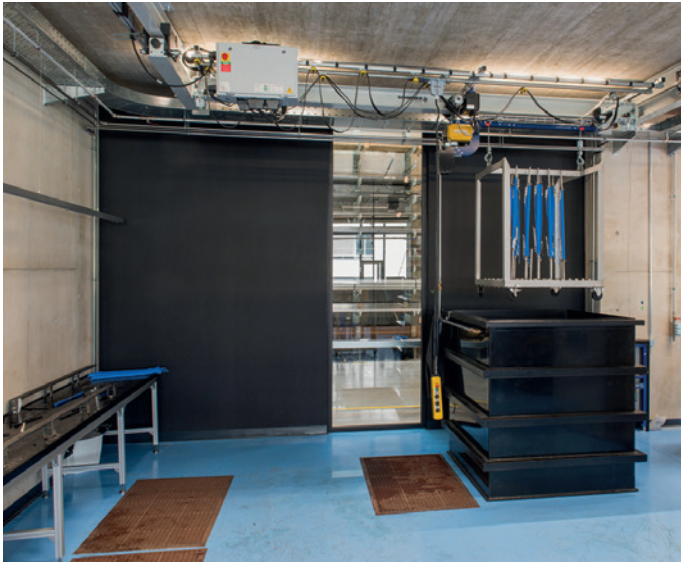
- For conventional indoor compressed air applications
- Best mechanical properties and very high pressure resistance for a wide temperature range (-35°C - +80°C)
- Very flexible with great coil memory
- Free of plasticisers
- Highly resistant against ultimate elongation and abrasion
- Suitable for vacuum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

Polyether-based Polyurethane

- For applications with liquid media, outdoor areas 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 combination with flame guarded cable installations
- Suitable for use in cable carriers

*please check separately

In-house Production



Quality and Own Production:

LUDECKE offers premium materials, superior production machinery and qualified employees. Moreover, we closely follow the latest requirements and trends in the market. Only by doing so, we can always provide top products.

Engineered and Made in Germany remains our promise.

LUDECKE has its own spiral hose fabrication for more than 25 years.

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 the high-quality requirements, it will be included in our portfolio.

Our in-house production allows us to react to our customer's requests in a quick and flexible way.



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 non-coiled, 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 is always at your disposal for any further questions you may have for a custom-made product.

Compressed Air Blow-off Sets

Both Sides with Straight Ends

- MODY spiral hose with one-hand quick connect plug DN 7.2 at short end (10 cm) and blow-off gun (type APN or APK) at long end (50 cm), completely assembled
- Extraordinary elasticity and flexibility of the MODY spiral hose
- Space-saving despite high range
- Polyamide bend and scratch protection
- Comes with individual packaging (clean and safe transport)
- High quality, robust and handy blow-off guns
- To clean working places and parts in industry, garages, and more

Materials

- Spiral: Polyurethane (polyester-based polyurethane)
- Spring Guard: 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

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

Hose- i.D./-o.D.	Connection	Max. Work. Length	Hose Length	Block Length	Outer Spiral Ø	Weight	Type No.
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



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

Hose- i.D./-o.D.	Connection	Max. Work. Length	Hose Length	Block Length	Outer Spiral Ø	Weight	Type No.
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



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

Hose- i.D./-o.D.	Connection	Max. Work. Length	Hose Length	Block Length	Outer Spiral Ø	Weight	Type No.
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.

MODY Spiral Hoses made of Polyurethane

both Sides with Straight Ends

- High resistance to abrasion, pressure and wear
- Extreme and constant recoil of the spiral, small coil diameter
- Elasticity, flexibility and bend stability
- Free of plasticisers and heavy metals
- Free of silicone, recyclable, resistant to gas, oil and antifreeze
- Assortment of reusable connections (perfectly adapted)
- Space-saving despite high range
- Comes with individual packaging (clean and safe transport)
- For flexible supply of compressed air at pneumatic tools and assembly lines
- In pneumatics, automation, measuring and control technology, automotive industry, construction engineering, garages, and more
- Can be used for other media (on request)



MODY Spiral Hoses with Swivelling Screwings
on both sides assembled

Hose-		Hose Length		Outer Spiral Ø		Type No. Blue	Type No. Yellow	Type No. Red	Weight	Thread.
i.D. / a.D.	Max. Working L.		Block Length							
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
- NW/AD 11/16 with spring made of nickel-plated steel
- NW/AD 13/19 with rigid fitting and spring made of steel

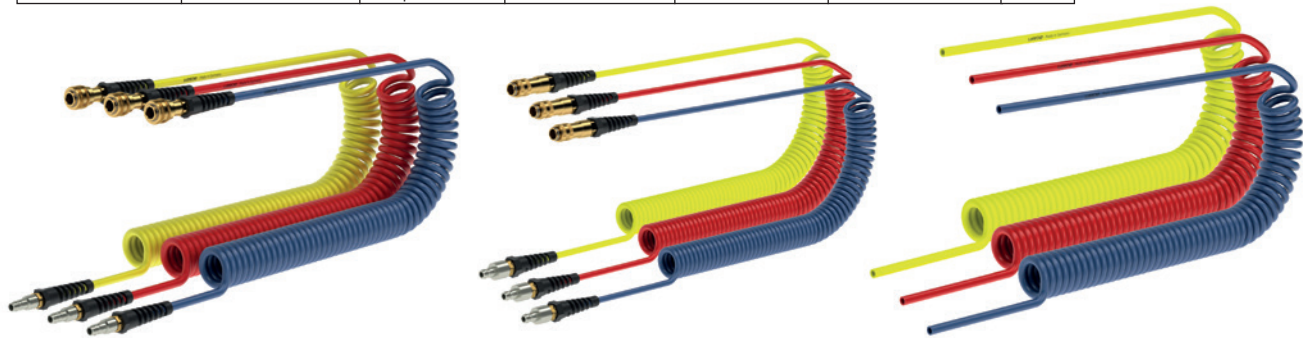


Polyurethane Hoses, non-coiled (minimum quantity 10 m/type)				
Hose i.D./o.D.	Weight g/m	Type No. Blue	Type No. Yellow	Type No. Red
4/6	20	PUB 46-R	PUG 46-R	PUR 46-R
5/8	40	PUB 58-R	PUG 58-R	PUR 58-R
6.5/10	55	PUB 6510-R	PUG 6510-R	PUR 6510-R
8/12	80	PUB 812-R	PUG 812-R	PUR 812-R
9/13	90	PUB 913-R	PUG 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-based polyurethane)
- Spring Guard: 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 / Others	Blue / Yellow / Red	100	500	1



MODY Spiral Hoses with Swivelling One-Hand Quick Connect Coupling 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

- With increased purchase quantity 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 create your own combination consisting of fittings and a hose. The fittings can be added to the hose resp. can be assembled from 10 pcs./type onward in our factory. We assume no liability for products, that are not assembled in-house. (Additional cost: Euro 3.14 net/piece)
- Please also note our complementary products e.g. our complete range of quick connect couplings (☺ page 32), pneumatic fittings (☺ page 122) or blow-off guns (☺ page 119)

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	
i.D./o.D. Size of hose	
Colour	
Labelling	

A : S : S Antistatic Spiral Hoses made of Polyurethane

Both Sides with Straight Ends

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

Materials

- Hose: Polyurethane (polyether-based polyurethane)
- Spring Guard: 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

A : S : S Antistatic Spiral Hoses made of Polyurethane

Hose- i.D./-o.D.	Connection	Max. Work. Length	Hose Length	Block Length	Outer Spiral $\varnothing$	Weight	Type No.
6/8	without	3000	4500	320	46	260	PUAS 683
6/8	without	6000	7500	610	46	380	PUAS 686
6/8	2 x R 1/4 m rigid	3000	4500	320	46	380	PUAS 683 SVK
6/8	2 x R 1/4 m rigid	6000	7500	610	46	500	PUAS 686 SVK
7.5/10	without	3000	4500	320	62	330	PUAS 75103
7.5/10	without	6000	7500	550	62	520	PUAS 75106
7.5/10	2 x R 1/4 m rigid	3000	4500	320	62	470	PUAS 75103 SVK
7.5/10	2 x R 1/4 m rigid	6000	7500	550	62	660	PUAS 75106 SVK
9/12	without	3000	4500	270	75	430	PUAS 9123
9/12	without	6000	7500	550	75	810	PUAS 9126
9/12	2 x R 3/8 m rigid	3000	4500	270	75	580	PUAS 9123 SVK
9/12	2 x R 3/8 m rigid	6000	7500	550	75	960	PUAS 9126 SVK

Other hose dimensions or working lengths on request.

A : S : S Antistatic Polyurethane Hose, non-coiled (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

Complementary Products

One-hand quick connect couplings (☺ page 32)

Pneumatic screwings (☺ page 122)

Blow-off guns and valves (☺ page 119)



Flamex-Spark Protecting and Hot Water Spiral Hoses made of Polyurethane Both Sides with Straight Ends

- Spiral hoses made of special polyurethane, high-quality and extreme robust, resistant to sparks and spatters (sparks run down) → same advantages as a MODY spiral hose
- Fluoride-free, halogen-free, silicon-free, resistant to hydrolysis
- Extremely burn resistant, burn classification according to UL 94 =VO
- Outside calibrated, suitable for drag chain, durable
- Application: For compressed air and water supply at extreme conditions in industry (e.g. on welding robots, plastic injection machines) in garages, welding places, railway, public buildings, mechanical engineering

Materials

- Hose: Polyurethane (polyether-based polyurethane)
- Spring Guard: 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

Flamex-Spark Protecting and Hot Water Spiral Hoses made of Polyurethane

	Hose- i.D./-o.D.	Connection	Max. Work. Length	Hose Length	Block Length	Outer SpiralØ	Weight	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
swivelling	6/10	2 x R 1/4 m swivelling	3000	4500	320	52	450	PUFS 6103 DVK
swivelling	6/10	2 x R 1/4 m swivelling	6000	7500	550	52	630	PUFS 6106 DVK
swivelling	6/10	2 x R 1/4 m swivelling	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
swivelling	8/12	2 x R 3/8 m swivelling	3000	4500	275	65	520	PUFS 8123 DVK
swivelling	8/12	2 x R 3/8 m swivelling	6000	7500	550	65	800	PUFS 8126 DVK
swivelling	8/12	2 x R 3/8 m swivelling	8000	10000	635	65	1130	PUFS 8128 DVK



Flamex Polyurethane Hose, non-coiled (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

Complementary Products

One-hand quick connect couplings (☺ page 32)

Pneumatic screwings (☺ page 122)

Blow-off guns and valves (☺ page 119)



MODY Duo Spiral Hoses made of Polyurethane

Both Sides with Straight Ends

- Combination with two spiral hoses (also multiple combinations possible)
- Same advantages as a MODY spiral hose
- Easy assembling with swivelling fittings on both sides
- Application: In fluid-control, on measuring devices, automation, for different media or to be able to distinguish between different compressed air lines, etc.

Materials

- Hose: Polyurethane (polyether-based polyurethane)
- Spring Guard: 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

MODY Duo Spiral Hoses made of Polyurethane

Hose- i.D./-o.D.	Connection	Max. Work. Length	Hose Length	Block Length	Outer Spiral	Weight	Type No.
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	4 x R 1/4 m swivelling	3000	4500	450	65	1000	PUBG 65103 DVK
6,5/10	4 x R 1/4 m swivelling	6000	7500	770	65	1370	PUBG 65106 DVK

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

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

Complementary Products

One-hand quick connect couplings (☺ page 32)

Pneumatic screwings (☺ page 122)

Blow-off guns and valves (☺ page 119)



swivelling
swivelling

MODY CleanConnect Spiral Hoses made of Polyurethane

Both Sides with Straight Ends for the Food Industry and Pharmacy

- High resistance to abrasion, pressure and wear 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 chemicals, good cold flexibility
- Polyurethane food-safe according to FDA 21 CFR 177.2600
- For pneumatic applications 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-based polyurethane)
- Coupling, plug: Stainless steel 1.4305

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

MODY CleanConnect Spiral Hoses made of Polyurethane

Hose- i.D./-o.D.	Connection	Max. Work. Length	Hose Length	Block Length	Outer Spiral	Weight	Type No.
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 rigid	3000	4700	240	75	505	PUL 8123 ESE
8/12	ESE-coupling + plug rigid	6000	7600	400	75	715	PUL 8126 ESE
8/12	ESE-coupling + plug rigid	8000	9700	540	75	870	PUL 8128 ESE

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

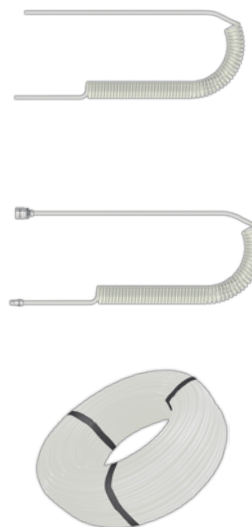
Hose i.D./o.D.	Weight g/m	Type No.
8/12	80	PUL 812-R

Complementary Products

Quick connect couplings made of stainless steel (☺ page 286)

Blow-off valve made of stainless steel (☺ page 118)

**Clean
Connect**
by **LUDECKE**



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-dimensions and degree of hardness
- Extreme pull and pressure-resistant
- Male threads tapered and environmentally friendly Loctite-coated
- One-hand quick connect couplings (standard system DN 7.2 and DN 5)
- Swivelling screwings with double O-ring sealing and retaining ring, easy to turn under pressure
- On request, all fittings also available with springs made of steel

Materials

- Screwing: Brass MS 58 plain (thread coated)/ 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 EN 10226	Compr. Air a.o.	5

Swivelling Squeeze Nut with tapered male thread (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	MS 58	43	DVK 4614
R 1/4 m	5/8	4.5	MS 58	53	DVK 5814
R 1/4 m	6.5/10	5.5	MS 58	64	DVK 651014
R 1/4 m	8/12	7	MS 58	88	DVK 81214
R 3/8 m	8/12	7	MS 58	88	DVK 81238
R 3/8 m	9/13	8	MS 58	82	DVK 91338
R 1/2 m	11/16	10	Steel	239	DVS 111612*

Swivelling Squeeze Nut 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	MS 58	58	DVK 5814 I
G 1/4 f	6.5/10	5.5	MS 58	70	DVK 651014 I
G 3/8 f	8/12	7	MS 58	80	DVK 81238 I
G 3/8 f	9/13	8	MS 58	74	DVK 91338 I
G 1/2 f	11/16	10	Steel	254	DVS 111612 I*

Rigid Squeeze Nut with tapered male thread (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	MS 58	25	SVK 4614
R 1/4 m	5/8	4.5	MS 58	29	SVK 5814
R 1/4 m	6.5/10	5.5	MS 58	43	SVK 651014
R 1/4 m	8/12	7	MS 58	56	SVK 81214
R 3/8 m	8/12	7	MS 58	63	SVK 81238
R 3/8 m	9/13	8	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

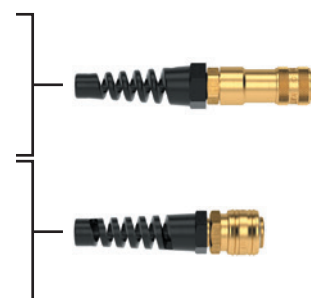
Rigid Squeeze Nut with parallel female thread and hose strain relief guards

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

*with spring made of steel, male thread not coated

swivelling
swivelling
swivelling
swivelling
swivelling

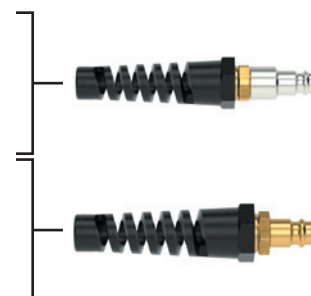
One-Hand Quick Connect Couplings with squeeze nut and hose strain relief guards					
Hose Connection	Connection	Material	Version	Weight	Type No.
For hose i.D./o.D. 4/6	Coupling ESM DN 5	MS 58	swivelling	55	ESM 4 DVK
For hose i.D./o.D. 5/8	Coupling ES DN 7.2	MS 58	swivelling	65	ES 5 DVK
For hose i.D./o.D. 6.5/10	Coupling ES DN 7.2	MS 58	swivelling	111	ES 65 DVK
For hose i.D./o.D. 8/12	Coupling ES DN 7.2	MS 58	swivelling	115	ES 8 DVK
For hose i.D./o.D. 9/13	Coupling ES DN 7.2	MS 58	swivelling	131	ES 9 DVK
For hose i.D./o.D. 4/6	Coupling ESM DN 5	MS 58	rigid	45	ESM 4 SVK
For hose i.D./o.D. 5/8	Coupling ES DN 7.2	MS 58	rigid	55	ES 5 SVK
For hose i.D./o.D. 6.5/10	Coupling ES DN 7.2	MS 58	rigid	95	ES 65 SVK
For hose i.D./o.D. 8/12	Coupling ES DN 7.2	MS 58	rigid	103	ES 8 SVK
For hose i.D./o.D. 9/13	Coupling ES DN 7.2	MS 58	rigid	98	ES 9 SVK



swivelling
swivelling
swivelling
swivelling
swivelling

One-Hand Quick Connect Plugs with squeeze nut and hose strain relief guards					
Hose Connection	Connection	Material	Version	Weight	Type No.
For hose i.D./o.D. 4/6	Plug ESM DN 5	Steel hardened	swivelling	37	ESM 4 SDVK
For hose i.D./o.D. 5/8	Plug ES DN 7.2	Steel hardened	swivelling	50	ES 5 SDVK
For hose i.D./o.D. 6.5/10	Plug ES DN 7.2	Steel hardened	swivelling	62	ES 65 SDVK
For hose i.D./o.D. 8/12	Plug ES DN 7.2	Steel hardened	swivelling	78	ES 8 SDVK
For hose i.D./o.D. 9/13	Plug ES DN 7.2	Steel hardened	swivelling	75	ES 9 SDVK
For hose i.D./o.D. 4/6	Plug ESM DN 5	MS 58	rigid	17	ESM 4 SSVK*
For hose i.D./o.D. 5/8	Plug ES DN 7.2	MS 58	rigid	34	ES 5 SSVK
For hose i.D./o.D. 6.5/10	Plug ES DN 7.2	MS 58	rigid	46	ES 65 SSVK
For hose i.D./o.D. 8/12	Plug ES DN 7.2	MS 58	rigid	59	ES 8 SSVK
For hose i.D./o.D. 9/13	Plug ES DN 7.2	MS 58	rigid	57	ES 9 SSVK

*Plug ESM 4 SSVK nickel-plated



Squeeze nut to connect with MODY spiral hoses (only to connect with 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 blow-off valves for continuous use at extreme conditions
- For cleaning of worktops or work pieces 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 made 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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Compressed Air Blow-off Valves made 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

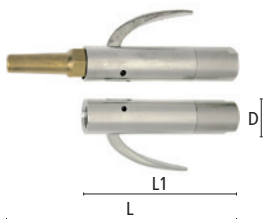
For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



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

Thread connect.	L	D	L1	Version	Connect. Nozzle	Material	Weight	Type No.
G 3/8 f	-	22	105	w/o nozzle (G 3/8 f)	G 3/8 f	Aluminium	95	AHL 38 IL
G 3/8 f	152	22	105	nozzle LSD 38	G 3/8 f	Aluminium/Brass	164	AHL 38 IL-LSD
G 3/8 f	152	22	105	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-functional nozzle
 - 20 % higher blowing power at same air consumption as standard nozzle
 - Safety function (air shield against back-whirling dirt)
 - Injector function
 - Noise reduction to 83 DB
 - According to US-safety norm OSHA

- Complementary nozzles and spare parts

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

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

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

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

Description	Nozzle bore	Material	Weight	Type No.
➊ Pointed nozzle	2	Steel	30	DÜSE H2
➋ Noise damping nozzle	Sieve	Steel	23	DÜSE GD2
➌ Noise damping safety nozzle	1.5+Sieve	Steel	44	DÜSE GSD2
Extension nozzle	2	Steel	35	DÜSE VD2



Pointed nozzle



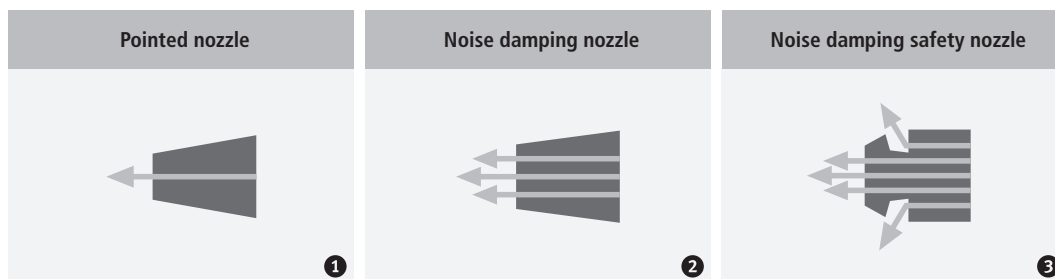
Noise damping nozzle



Noise damping safety nozzle



Extension nozzle



Spare parts for blow-off valves type AHL/M

Description	Type No.
Valve pin with O-ring	AH-VSTIFT
Valve with spring	AH-AVKO
Handle	AH-HEBEL

Compressed Air Blow-off Valves

made of Aluminium - Large Bore Version

- Robust blow-off valves for permanent use at heavy working conditions
- Nozzle bore 8 mm for high flow rates i.e. for cleaning of heavy castings
- For cleaning of worktops or work pieces 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	1

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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Compressed Air Blow-off Valve

made of Stainless Steel

- Blow-off valve made of stainless steel for permanent use at heavy working conditions
- For cleaning of worktops or work pieces in applications with strict hygiene requirements

Materials

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

Max. Working Pressure	Temperature	Media	
PN 12 bar	-40°C – +90°C	Compressed Air	1

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, for continuous use
- With long handle, suspension bow and different connections
- For cleaning of worktops or work pieces 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 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	valve P1	M 12x1.25 f	2	237	APN 0
Hose i.D. 6	175	90	valve P1	M 12x1.25 f	2	254	APN 6
Hose i.D. 9	175	90	valve P1	M 12x1.25 f	2	260	APN 9
Hose i.D. 11	175	90	valve P1	M 12x1.25 f	2	264	APN 11
Hose i.D. 13	175	90	valve P1	M 12x1.25 f	2	277	APN 13
G 1/4 m	160	90	valve P1	M 12x1.25 f	2	256	APN 14
ES 14 NA	170	90	valve P1	M 12x1.25 f	2	259	APN 14 NA



Compressed Air Blow-off Guns

made of Forged Aluminium - Dosage

- Air stream can be smoothly dosed for customized blow-off power
- High-quality, robust, handy, for continuous use
- With long handle, suspension bow and different connections
- APND-NA-MFD with plug DN 7.2 to be connected with hoses (that are installed on the ceiling and assembled with angle coupling DN 7.2 ES..T-90)
- For cleaning of worktops or work pieces 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	valve P1	M 12x1.25 f	2	237	APND 0
G 1/4 f	160	90	MFD 1	M 12x1.25 f	1.5	268	APND 0 MFD
Plug DN 7.2	160	110	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-functional nozzle
 - 20 % higher blowing power at same air consumption as standard nozzle
 - Safety function (air shield against back-whirling dirt)
 - Injector function
 - Noise reduction to 83 DB
 - According to US-safety norm OSHA
- Complementary valves, screwings and spare parts



Pointed nozzle



Noise damping nozzle



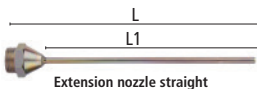
Safety nozzle



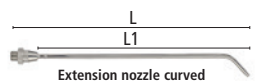
Noise damping safety nozzle



Injection nozzle



Extension nozzle straight



Extension nozzle curved



Noise damping nozzle



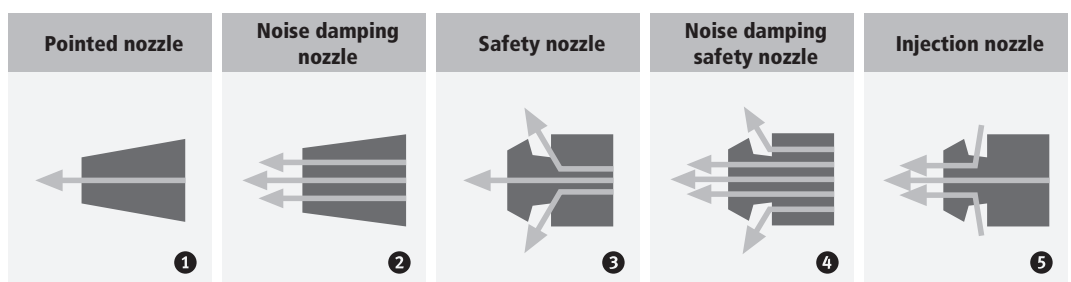
Max. Working Pressure	Temperature	Thread	Media	
PN 12 bar	-20°C – +100°C	ISO 228 / DIN 13	Air / Others	5/10

Multi-functional 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

Description	Thread connect.	L	L1	Nozzle bore	Material		Weight	Type No.
❶ Pointed nozzle	M 12x1.25 m			2	Steel	10	20	DÜSE P1
❷ Noise damping nozzle	M 12x1.25 m			Sieve	Steel	10	13	DÜSE GD1
❸ Safety nozzle	M 12x1.25 m			1.5	Steel	10	30	DÜSE SD1
❹ Noise damping safety nozzle	M 12x1.25 m			1.5+Sieve	Steel	10	27	DÜSE GSD1
❺ Injection nozzle	M 12x1.25 m			2	Steel	10	31	DÜSE J1
Extension nozzle straight	M 12x1.25 m	160	145	2	Steel	10	25	DÜSE VD1
Extension nozzle curved	M 12x1.25 m	115	100	2	POM/Steel nickel-pl.	5		DÜSE VDG 120
Extension nozzle curved	M 12x1.25 m	160	145	3	Brass MS nickel-pl.	5		DÜSE VDG 165
Extension nozzle curved	M 12x1.25 m	260	245	3	Brass MS nickel-pl.	5		DÜSE VDG 260
Noise damping nozzle	M 12x1.25 m			8x0.8	Brass MS 58 plain	10	59	LSD 125



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	approx. 47°	10	104	KGV 14

Spare Parts for compressed air Blow-off Guns type APN

Description		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 made of robust, scratchproof, isolating and nonslip composite material
- Perfectly adapted to the shape of the hand and thus particularly ergonomic
- Input connector meshed with brass insert: absolutely safe and tight 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 operational 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 at the nozzle and body are possible
- 2 possibilities for hanging, safe and easy
- [For cleaning of worktops or work pieces in industry, craftsmanship, garages, etc.](#)

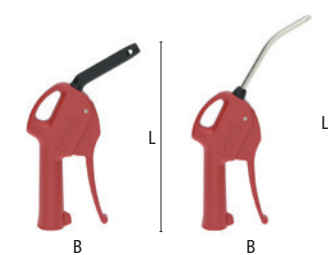
Materials

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

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

Compressed Air Blow-off Guns made of Plastic

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



Pneumatic Fittings

made of Brass Plain

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

Pneumatic 1/3-Screwings

Materials

- Screwings: Brass MS 58 plain

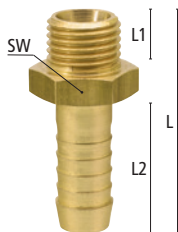
Max. Working Pressure	Thread	Media	
PN 12 bar	ISO 228	Compressed Air, Gas/ Others	10

Thread stems 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. 19	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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133), Thread sealing with PVC sealing ring type HPD (☺ page 212)

*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/ Others	10

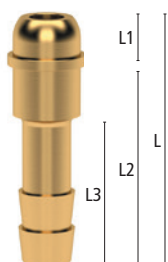
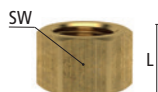
Hexagon nut

Thread connection	L	SW	Bore	Weight	Type No.
G 1/8 i	12	13	7,2	13	U 18 M
G 1/4 i	14	17	10,6	16	U 14 M
G 3/8 i	15	19	13	15	U 38 M
G 1/2 i	16	24	15,5	28	U 12 M

Hose Stems with outer cone 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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Pneumatic Fittings

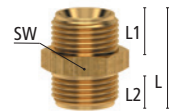
made of Brass Plain

Max. Working Pressure	Thread	Media	
PN 12 bar	ISO 228 / DIN EN 10226	Compressed Air, Gas/ Others	10

Pneumatic Double Nipples with double 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

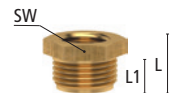
Thread sealing with PVC sealing ring type HPD (☺ page 212)



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

Thread sealing with PVC washers type HPD (☺ page 212)



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

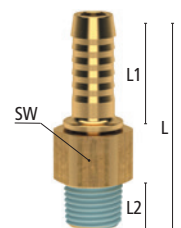
For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



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 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



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	Diverse	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 made of brass
- 3-way manifolds or 4-way manifolds with female thread
- For compressed air supply from central extraction points

Materials

- Distributor and quick connect coupling: Brass MS 58 plain

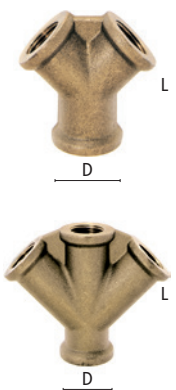
Max. Working Pressure	Temperature	Media	
PN 35 bar	-20°C – +100°C	Air/ Others	5

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



Manifold for Quick Connect Couplings

made of Plastic

- Manifold made of plastic with brass inserts
- 4-way manifold with female thread
- For compressed air supply from central extraction points
- For wall mounting 4 x Ø 5.5m - 70x44

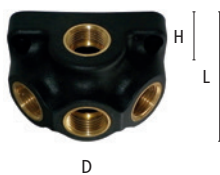
Materials

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

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	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 technology, compressed air, automation, measure, control and regulation technology, etc.

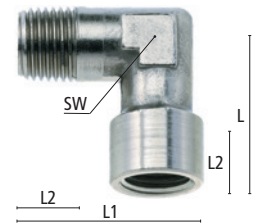
Materials

- Fittings: Brass MS 58 nickel-plated

Max. Working Pressure	Thread	Media	
PN 8 bar	ISO 228 / DIN EN 10226	Compressed air / Others	10

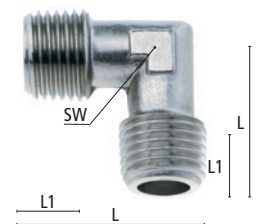
Elbow Connectors with tapered male thread and parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m - G 1/8 f	21	10	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	33	21	30	14	103	VL 202-12



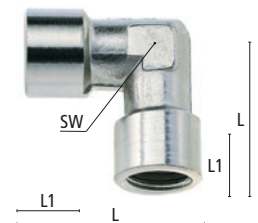
Elbow Connectors with both sides tapered male thread

Thread connection	L	SW	L1	Weight	Type No.
2 x R 1/8 m	17.8	9	8	10	VL 200-18
2 x R 1/4 m	21	10	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	10	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	13	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	20	55	VM 204-38
R 1/2 m - 2 x G 1/2 f	14	25	108	VM 204-12



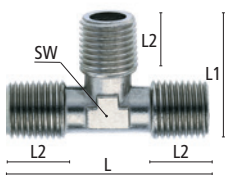
Y-Connectors with 3 x parallel female thread

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	20	42	VF 204-38
3 x G 1/2 f	14	25	101	VF 204-12



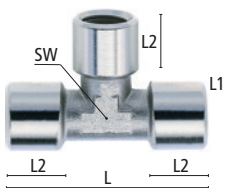
Pneumatic Fittings

made of Brass Nickel-Plated



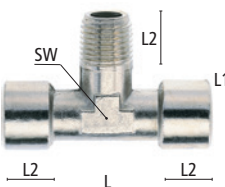
T-Adapters with 3 x tapered male thread

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	12	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	60	17	30	14	128	VTT 208-12



T-Adapters with 3 x parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
3 x G 1/8 f	42	10	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-Adapters 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 Adapters 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	17	8	15	VNC 260-14
2 x G 3/8 m	23.2	19	9	25	VNC 260-38
2 x G 1/2 m	25.5	24	10	45	VNC 260-12
2 x G 3/4 m	27.5	30	11	68	VNC 260-34

Thread sealing with PVC sealing ring type HPD (© page 212)



Reducing Double Adapters with both sides parallel male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m - G 1/4 m	19	17	6	8	14	VNR 261-184
G 1/8 m - G 3/8 m	20	19	6	9	20	VNR 261-188
G 1/8 m - G 1/2 m	21.5	24	6	10	34	VNR 261-182
G 1/4 m - G 3/8 m	22	19	8	9	22	VNR 261-148
G 1/4 m - G 1/2 m	23.5	24	8	10	39	VNR 261-142
G 3/8 m - G 1/2 m	24.5	24	9	10	43	VNR 261-382
G 1/2 m - G 3/4 m	26.5	30	10	11	69	VNR 261-124

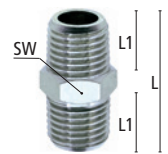
Thread sealing with PVC sealing ring type HPD (© page 212)

Pneumatic Fittings

made of Brass Nickel-Plated

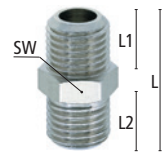
Double Adapters with both sides tapered male thread

Thread connection	L	SW	L1	Weight	Type No.
2 x R 1/8 m	19	12	7.5	9	VNC 250-18
2 x R 1/4 m	26	14	10.5	15	VNC 250-14
2 x R 3/8 m	27	17	11.5	26	VNC 250-38
2 x R 1/2 m	33.5	22	14	50	VNC 250-12
2 x R 3/4 m	35	27	14	72	VNC 250-34



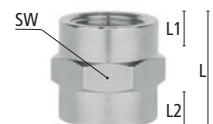
Reducing Double Adapters with both sides tapered male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m - R 1/4 m	23	14	7.5	10.5	13.5	VNR 251-184
R 1/8 m - R 3/8 m	24	17	7.5	11.5	19.5	VNR 251-188
R 1/4 m - R 3/8 m	27.5	17	10.5	11.5	22	VNR 251-148
R 1/4 m - R 1/2 m	30.5	22	11.5	14	39	VNR 251-142
R 3/8 m - R 1/2 m	31	22	11.5	14	43	VNR 251-382
R 1/2 m - R 3/4 m	37.5	27	14	14	69	VNR 251-124



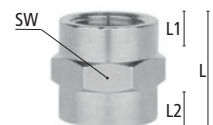
Double Adapters with both sides parallel female thread

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	28	26	14	50	VM 254-122



Reducing Double Adapters 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	21	22	11	12	47	VM 255-148
G 1/2 f - G 3/4 f	30	32	15	17	107	VM 255-124



Reducing Adapters with parallel male and female thread

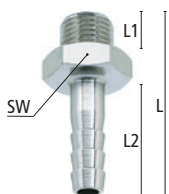
Thread connection	L	SW	L1	Weight	Type No.
G 1/8 f - G 1/4 m	13	17	8	11	VRC 100-148
G 1/4 f - G 3/8 m	14	19	9	12	VRC 100-384
G 3/8 f - G 1/2 m	15.5	24	10	24	VRC 100-128
G 1/2 f - G 3/4 m	17.5	30	12	41	VRC 100-342



Thread sealing with PVC sealing ring type HPD (© page 212)

Pneumatic Fittings

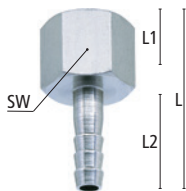
made of Brass Nickel-Plated



Thread stem adapters 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

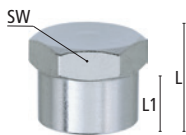
For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133), Thread sealing with PVC sealing ring type HPD (☺ page 212)



Thread stem adapters with parallel female thread

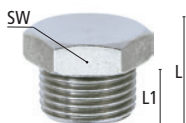
Thread connection	Hose connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	Hose i.D. 6	31	13	9	20	13	VPG 250-186
G 1/4 f	Hose i.D. 6	34	17	11	20	20	VPG 250-146
G 1/4 f	Hose i.D. 9	34	17	11	20	23	VPG 250-149
G 3/8 f	Hose i.D. 9	35	22	12	20	27	VPG 250-389
G 1/2 f	Hose i.D. 13	41.5	24	14	24	45	VPG 250-1213

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



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

Thread sealing ring with PVC washers type HPD (☺ page 212)

Hexagon Ball Valves

- Miniature ball valves made of brass nickel-plated
- For pneumatic or water installations in industry, construction or civil applications

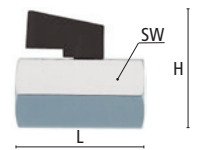
Materials

- 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

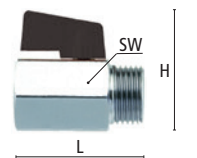
Hexagon Ball Valves with 2 x female thread

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 a - G 1/4 f	36	19	38	5.5	61	KMZ 14 TS
G 3/8 a - G 3/8 f	41	21	38	8	83	KMZ 38 TS
G 1/2 a - G 1/2 f	48	25	42	10	130	KMZ 12 TS



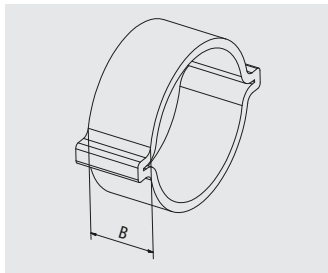
Double-Ear Hose Clips

- 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 unsolvable
- No risk of injury
- [To assemble hoses and fittings for various media](#)

Materials

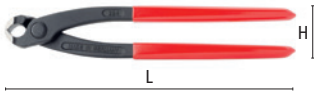
- Clips: Unbreakable special reliable steel, zinc-plated and blue chromated (free of chrome VI)

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	L	H	Weight	Type No.
	220	50	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 belt tension – maximum strip safety
- Hose-protective through rounded edges and smooth band insides
- Thinner screw body with new suspension, hence improved tightening and fracture torque
- Material and clamp range stamped at inner band side
- Hexagon screw with cross-slotted head
- Optimum distribution of 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 assembly of various hoses and fittings for different media

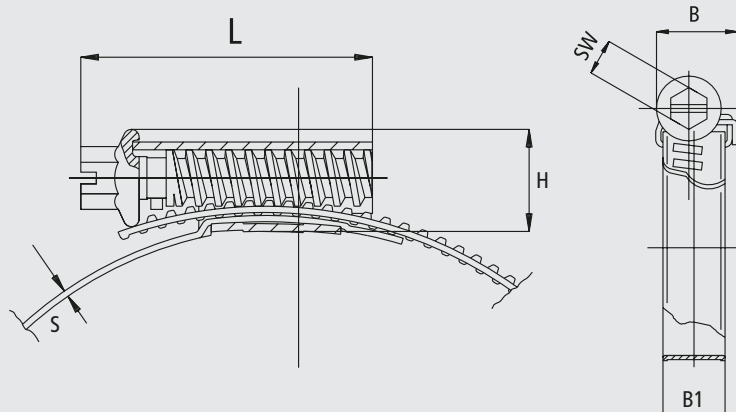
Materials

- Band, body, screw: Steel W1 zinc-plated and thick layer passivated

Norm
DIN 3017

High-Performance Hose Clips, band and lock made of steel W 1 zinc-plated

Range		torque		band-width		band-thickness				Weight	Type No.
mm	inch	B	SW	Max.Nm	L	H	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 belt tension – maximum strip safety
- Hose-protective through rounded edges
- Stamped band
- Thinner screw body with new suspension, hence improved tightening and fracture torque
- Material and clamp range stamped at inner band side
- Hexagon screw with cross-slotted head
- Optimum distribution of tension over complete hose diameter
- Up to size 90 in boxes, size 100 in plastic bags
- For safe, fast and removable assembly of various hoses and fittings for different media

Materials

- Band, body, screw: Stainless Steel W5

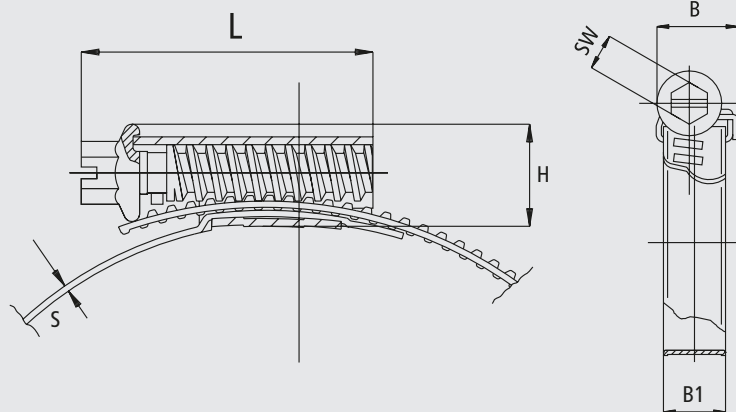
Norm

DIN 3017



High-Performance Hose Clips, band and lock made of stainless steel W 5

Range		torque		band-width		band-thickness					
mm	inch	B	SW	Max. Nm.	L	H	B1	S		Weight	Type No.
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



Ferrules for Low Pressure Hose Lines

- Ferrules made of annealed 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, clean and unsolvable connection
- For crimping of various hoses and fittings for different media

Materials

- Body: annealed steel zinc-plated and yellow passivated

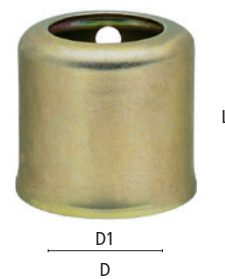
Max. Working Pressure

PN 16 bar

Ferrules for Low Pressure Hose Lines

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				32	16.5	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	25	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 245) 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 16 mm Hose i.D.
- **Clean:** Exact assembling of fitting, hose and ferrule through centric crimping of the ferrule
- **Simple:** Fast assembling quick and easy
- **Reliable:** Improved safety through perfect fit
- **Safe:** Reduced danger of injury
- With two crimping-jaw sets for crimping range from 3 to 9 mm and from 10 to 16 mm
- **Flexible:** For mobile use

Assembly Machine

for hose						
Hose o.D./						
Hose i.D.	Range	suitable ferrule	e.g. for fitting		Weight	Type No.
3-16	10-22	LPH 12.5-23	Pneumatic-Connect., ES-Couplings	1	12.2 kg	SPR-333

