



# 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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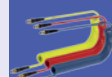
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## A Superior Product Range for Compressed Air



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

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

### Advantages:

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

## Wide Selection

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

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



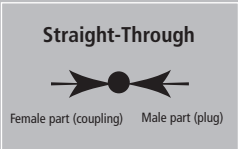
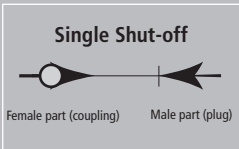
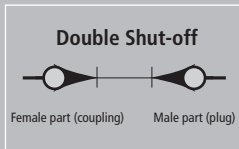
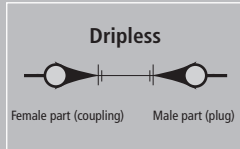
European plug profiles



International plug profiles

# Valve Designs

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

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

## Materials

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

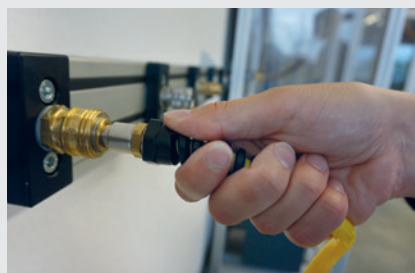
<b>Brass (plain/ nickel-plated)</b>	Most of the <b>LUDECKE</b> quick connect couplings consist of brass MS 58 (machining brass). It is a very sturdy material which guarantees high durability, and can be excellently galvanized (nickel-plating).
<b>Steel (machining steel)</b>	If products are used under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

## Connecting within Seconds

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



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



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





# Quick Connect Couplings with European Plug Profiles

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



## Quality-Line

### Unlimited Flexibility

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

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



## OptiFlow-Line

### Energy Efficient Quick Connect Couplings

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

→ For the Series ES11A DN 7.4 / ES12A DN 7.4 / ES1 DN 7.8 / ES1K DN 7.8 / ES1S DN 7.8 / ES1G DN 10 / ES1 DN 19



## SafeConnect-Line

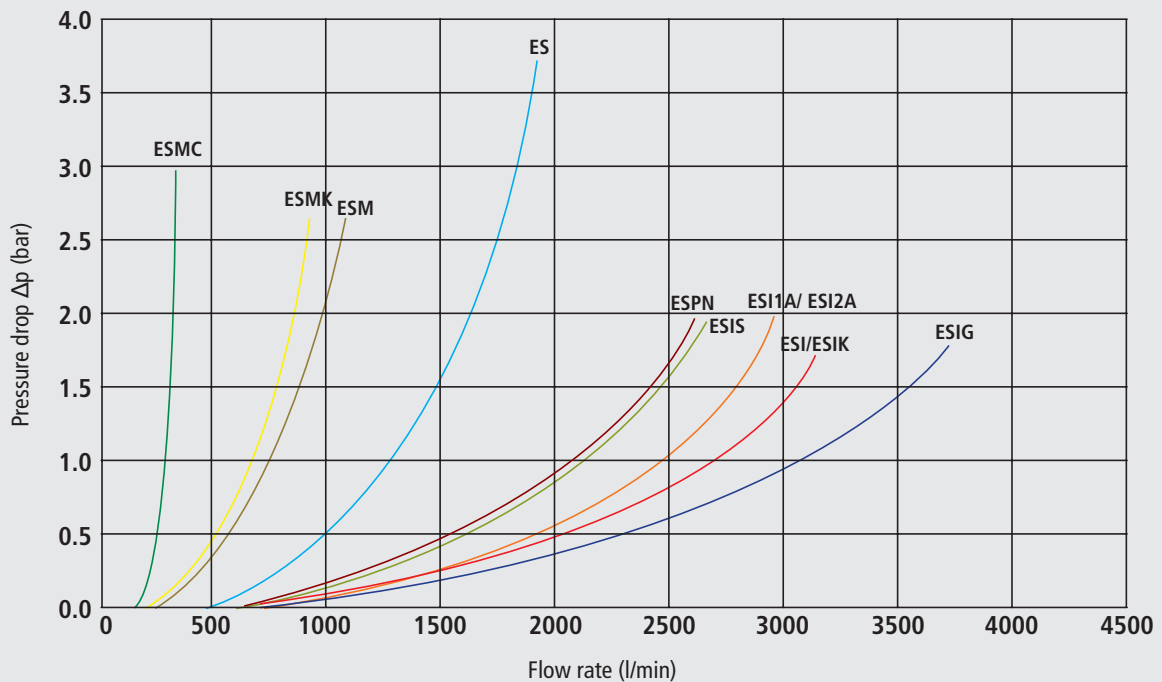
### Quick Connect Couplings with Safety Function

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

→ For the Series ES1S DN 7.8 / ESPN DN 7.4 / ES DN 7.2 / ES1 DN 7.8 / ES1K DN 7.8 / ES11A DN 7.4 / ES12A DN 7.4 / ESMK DN 5

# Flow Chart

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



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

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

# Testing Panel

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

### Your advantages:

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



Product Information

Functional Description

Application Possibilities (connecting)

Compressed Air Connections

LUDECKE MADE IN GERMANY

Pressure of the panel is reduced to 3 bar



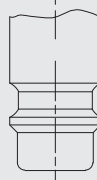
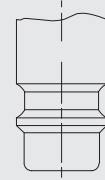
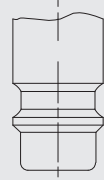
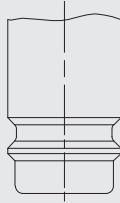
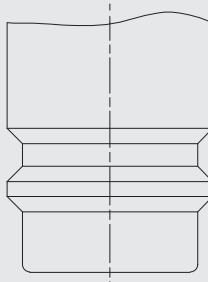
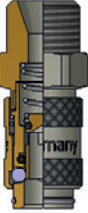

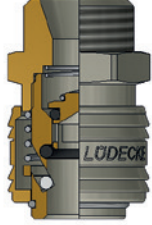

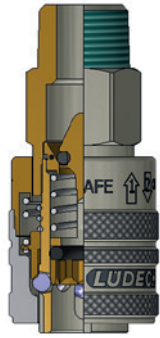
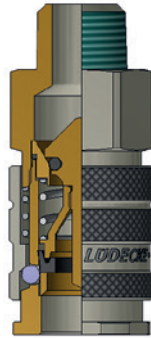
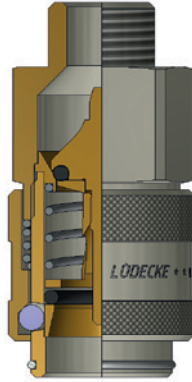







We offer the testing panels at cost price. If you are interested please contact our expert sales team.



# Overview of the Quick Connect Couplings with

## Quality-Line

## OptiFlow-Line

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

# European Plug Profiles

SafeConnect-Line

NEW!

**ESIS\***  
DN 7.8

**ESPN**  
DN 7.4

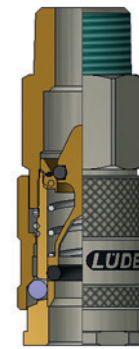
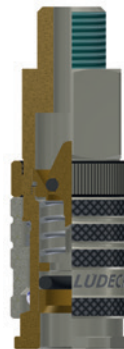
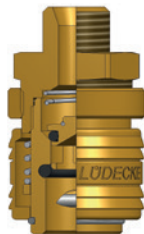
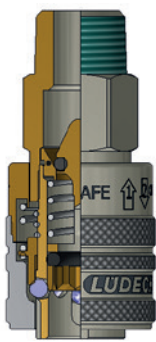
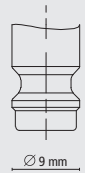
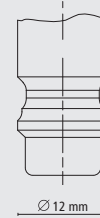
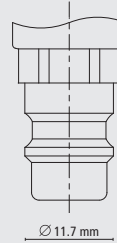
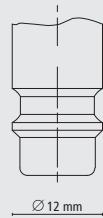
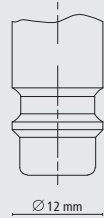
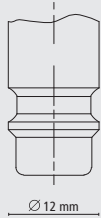
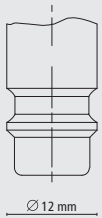
**ES**  
DN 7.2

**ESI\***  
DN 7.8

**ESIK\***  
DN 7.8

**ESI1A/2A\***  
DN 7.4

**ESMK**  
DN 5



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

Buna N

EPDM, FKM, FFKM

Steel hardened+nickel-pl.

PN 12 bar

-20°C – +100°C

ISO 228/DIN 2999

1700 l/min

single

One-hand  
68

Self-venting

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

Buna N

–

Steel hardened+nickel-pl.

PN 12 bar

-15°C – +70°C

ISO 228

1650 l/min

single

One-hand  
70

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

–

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

PN 35 bar

-20°C – +100°C

ISO 228

1000 l/min

single

One-hand  
71

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

Buna N

EPDM, FKM, FFKM

Steel hardened+nickel-pl.

PN 35 bar

-20°C – +100°C

ISO 228/DIN 2999

2000 l/min

single

One-hand  
72

Sleeve lock mechanism

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

Buna N

EPDM, FKM, FFKM

Steel hardened+nickel-pl.

PN 35 bar

-20°C – +100°C

ISO 228/DIN 2999

2000 l/min

single

One-hand  
74

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

Buna N

EPDM, FKM, FFKM

Brass MS 58 nickel-pl.

PN 35 bar

-20°C – +100°C

ISO 228/DIN 2999

1800 l/min

single

One-hand  
74/ 77

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

Buna N

EPDM, FKM, FFKM

Brass MS 58 with  
anodised alu. ring  
PN 35 bar

-20°C – +100°C

ISO 228

430 l/min

single

One-hand  
78

Visual indication

\* SafeConnect-Line + OptiFlow-Line



## Quality-Line

### Unlimited Flexibility




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

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

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

## Different Sizes and Versions

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

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



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

**The original**



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

### Advantages:

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

## Operation

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



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



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



# Micro Quick Connect Couplings

## Series ESMC single shut-off

**DN 2.7**



Also in  
Stainless Steel  
Series ESMCE  
page 286

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

### Materials

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

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

### Couplings with male thread

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

### Couplings with female thread

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

### Couplings with hose barb

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

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

### Couplings with squeeze nut

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

### Couplings with squeeze nut and bulkhead screwing

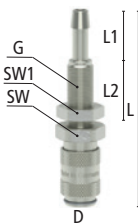
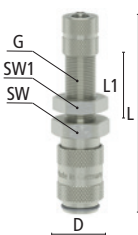
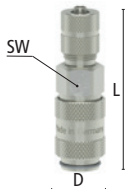
Hose connection	L	SW	D	L1	SW1	G	Weight	Type No.
Hose 3x4	45	12	10	17	11	M 7x0.5 m	26	ESMC 34 TQSV
Hose 3x5	45	12	10	17	11	M 7x0.5 m	26	ESMC 35 TQSV
Hose 4x6	45	12	10	17	12	M 8x0.5 m	26	ESMC 4 TQSV

### Couplings with hose barb and bulkhead screwing

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

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

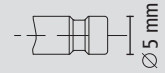
When ordering just add -AB to the regular Type No.i.e ESMC 5 IAB or ESMC 18 NAAB.



# Micro Quick Connect Couplings

## single shut-off Series ESMC

**DN2.7**



Plug Profile (original size)

### Plugs with male thread

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

### Plugs with female thread

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

### Plugs with hose barb

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

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

### Plugs with squeeze nut

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

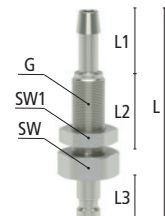
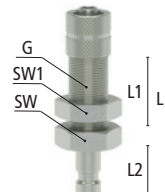
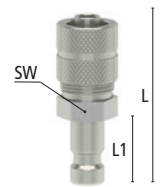
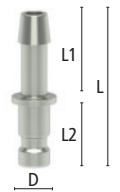
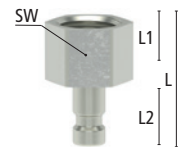
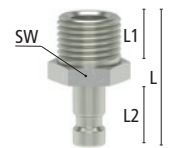
### Plugs with squeeze nut and bulkhead screwing

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

### Plugs with hose barb and bulkhead screwing

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

Special versions and versions in brass plain on request.



# Mini Quick Connect Couplings

## Series **ESM** single shut-off

**DN5**



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

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

### Materials

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

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

### Couplings with male thread

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

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

### Couplings with female thread



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

### Couplings with hose barb



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

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

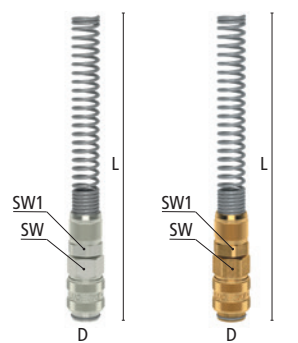
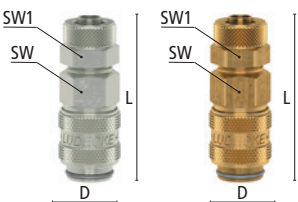
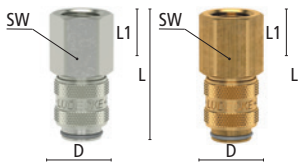
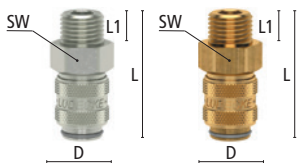
### Couplings with squeeze nut (rigid and swivelling)

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

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

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

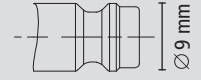
Special versions on request.



# Mini Quick Connect Couplings

## single shut-off Series ESM

**DN5**

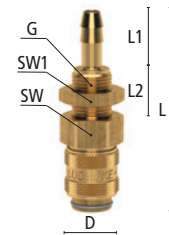


Plug Profile (original size)

### Bulkhead couplings

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

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



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**NEW!**

### Couplings with plug DN 7.2-ES-System adapter

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

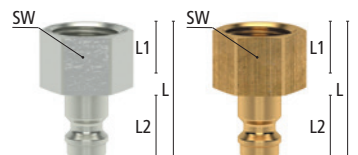
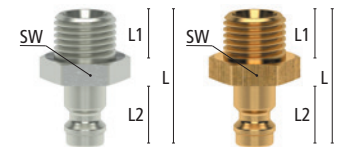
### Plugs with male thread

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

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

### Plugs with female thread

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



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

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

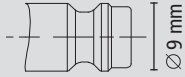
Minimum quantity 50 pc/type!



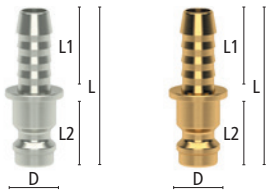
# Mini Quick Connect Couplings

## Series **ESM** single shut-off

### DN5



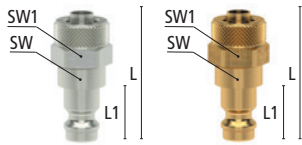
Plug Profile (original size)



#### Plugs with hose barb

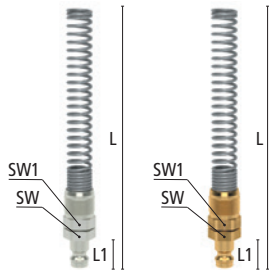
Hose connection	L	D	L1	L2	Material	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	32	9	16.5	14	Brass MS 58	7	ESMN 4 S	ESM 4 S
Hose i.D. 5	32	12	16.5	14	Brass MS 58	8	ESMN 5 S	ESM 5 S
Hose i.D. 6	32	12	16.5	14	Brass MS 58	8	ESMN 6 S	ESM 6 S
Hose i.D. 8	32	12	16.5	14	Brass MS 58	12	ESMN 8 S	ESM 8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

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



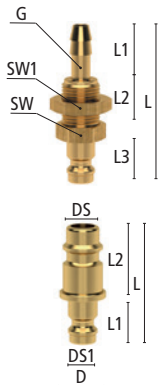
#### Plugs with squeeze nut

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



#### Plugs with squeeze nut and spring guards

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



#### Plugs with bulkhead screwing

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

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

**NEW!**

#### System-adapter

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

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

# Mini Quick Connect Couplings

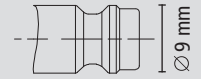
## double shut-off Series ESM

**DN5**

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

### Materials

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



Plug Profile (original size)

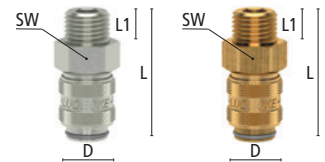
Also in  
Stainless Steel  
Series ESME  
page 289

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

### Couplings with male thread

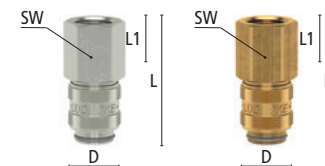
Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 m	37	14	16	7	27	ESMN 18 AAB	ESM 18 AAB
G 1/4 m	38	17	16	9	36	ESMN 14 AAB	ESM 14 AAB
G 3/8 m	38	19	16	9	43	ESMN 38 AAB	ESM 38 AAB
M 10x1 m	37	14	16	7	35	ESMN 101 AAB	ESM 101 AAB
M 12x1.5 m	39	17	16	10	37	ESMN 121 AAB	ESM 121 AAB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

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



### Couplings with female thread

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



### Couplings with hose barb

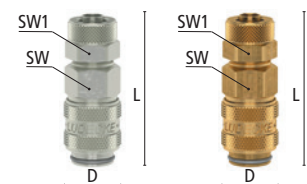
Hose connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	46	14	16	17	27	ESMN 4 TAB	ESM 4 TAB
Hose i.D. 5	46	14	16	17	27	ESMN 5 TAB	ESM 5 TAB
Hose i.D. 6	46	14	16	17	27	ESMN 6 TAB	ESM 6 TAB
Hose i.D. 8	46	14	16	17	29	ESMN 8 TAB	ESM 8 TAB
Hose i.D. 9	46	14	16	17	29	ESMN 9 TAB	ESM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

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



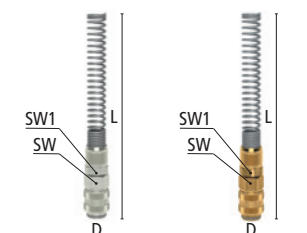
### Couplings with squeeze nut

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



### Couplings with squeeze nut and spring guard

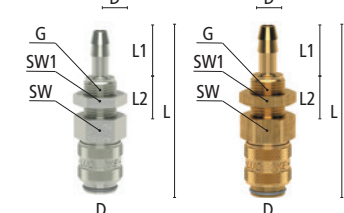
Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	120	14	16	12	39	ESMN 4 TQFAB	ESM 4 TQFAB
Hose 6x8	130	14	16	14	44	ESMN 6 TQFAB	ESM 6 TQFAB



### Couplings with bulkhead screwing

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

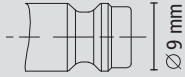
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)



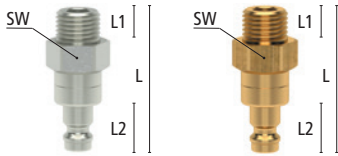
# Mini Quick Connect Couplings

## Series **ESM** double shut-off

### DN5



Plug Profile (original size)

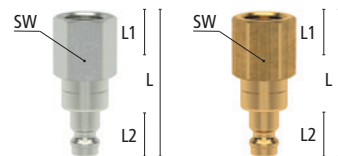


#### Plugs with male thread

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

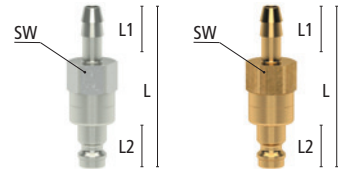
Male thread sealing with PVC-packing rings type HPD (☺ page 231)

#### Plugs with female thread



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

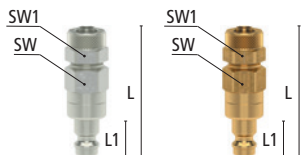
#### Plugs with hose barb



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

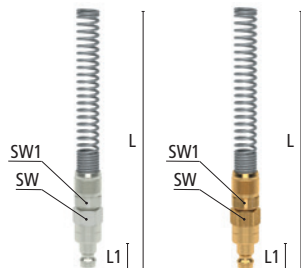
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)

#### Plugs with squeeze nut



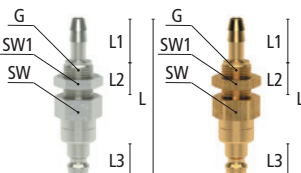
Hose connection	L	SW	L1	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	47	14	14	12	32	ESMN 4 SQAB	ESM 4 SQAB
Hose 6x8	47	14	14	14	32	ESMN 6 SQAB	ESM 6 SQAB

#### Plugs with squeeze nut and spring guard



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

#### Plugs with bulkhead screwing



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

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

# Mini Quick Connect Couplings

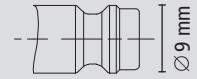
## dripless version Series ESMLA

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

### Materials

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

**DN5**



Plug Profile (original size)

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

### Couplings with male thread

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

### Couplings with female thread

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

### Couplings with hose barb

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

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

### Couplings with squeeze nut

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

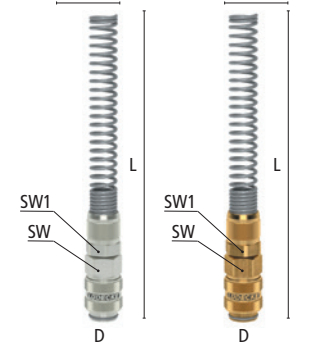
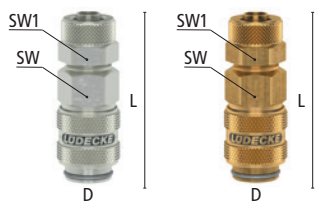
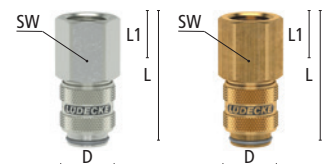
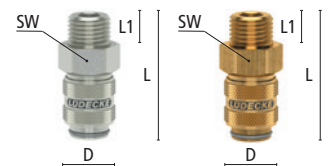
### Couplings with squeeze nut and spring guard

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

### Couplings with bulkhead screwing

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

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



# Quick Connect Couplings

The original

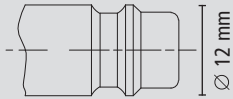
## Series ES single shut-off

### DN 7.2

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

#### Materials

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

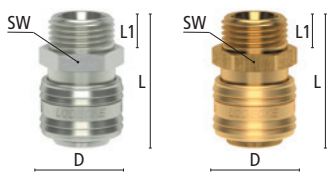


Plug Profile (original size)

Also in  
Stainless Steel  
Series ESE  
page 294

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

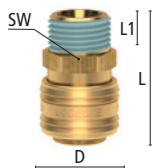
#### Couplings with male thread



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

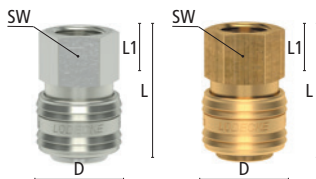
Male thread sealing with PVC-packing rings type HPD (☎ page 231)

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



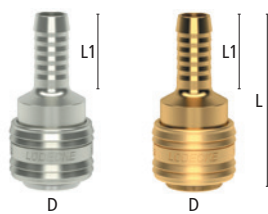
Thread connection	L	SW	D	L1	Weight	Type No. plain
R 1/4 m	42	22	27	11	76	ES 14 AB
R 3/8 m	44	22	27	12	79	ES 38 AB
G 1/2 m	45	22	27	15	96	ES 12 AB

#### Couplings with female thread



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

#### Couplings with hose barb



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

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

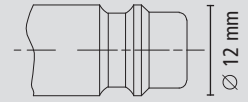
\*ES 10 TH and ES 13 TH for the use of various quick-fit hoses (e.g. Parker Push-Lock, Gates Lock-on)

The original

# Quick Connect Couplings

single shut-off **Series ES**

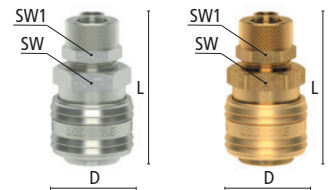
**DN7.2**



Plug Profile (original size)

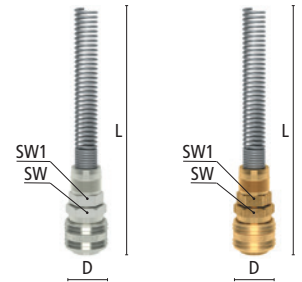
### Couplings with squeeze nut

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



### Couplings with squeeze nut and spring guard

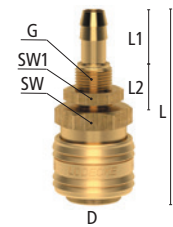
Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	125	22	27	12	85	ESN 4 TQF	ES 4 TQF
Hose 5x8	130	22	27	14	88		ES 58 TQF
Hose 6x8	130	22	27	14	90	ESN 6 TQF	ES 6 TQF
Hose 6.5x10	130	22	27	17	95		ES 6510 TQF
Hose 8x10	136	22	27	19	120	ESN 8 TQF	ES 8 TQF
Hose 8x12	140	22	27	19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



### Bulkhead couplings

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

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



**NEW!**

### Couplings with plug DN 5-ESM system adapter

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



### Couplings with angle hose barb 45°

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

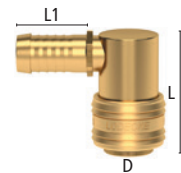
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)



### Couplings with angle hose barb 90°

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

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



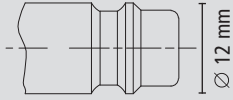
Angle-Thread Couplings available on request.

# Quick Connect Couplings

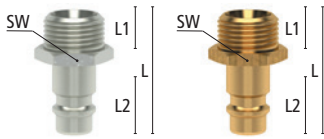
## Series ES single shut-off

The original

**DN 7.2**



Plug Profile (original size)

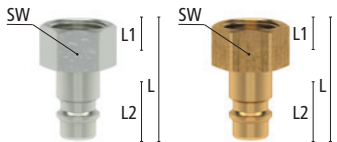


### Plugs with male thread

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

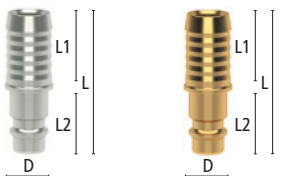
Male thread sealing with PVC-packing rings type HPD (© page 231)

### Plugs with female thread



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

### Plugs with hose barb



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

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

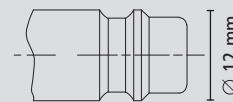
\*ES 10 TH and ES 13 TH for the use of various quick-fit hoses (e.g. Parker Push-Lock, Gates Lock-on)

The original

# Quick Connect Couplings

single shut-off **Series ES**

**DN7.2**



Plug Profile (original size)

### Plugs with squeeze nut

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

### Plugs with squeeze nut and spring guard

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

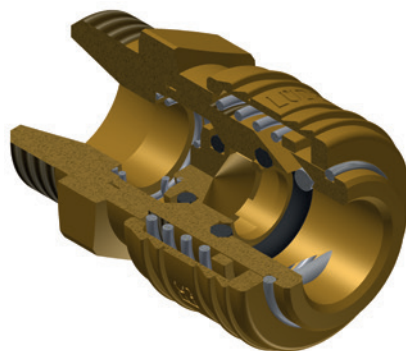
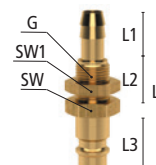
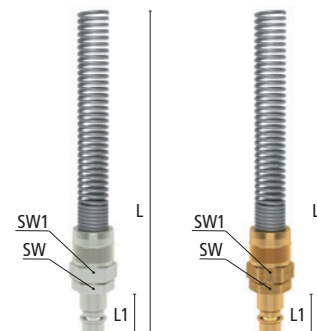
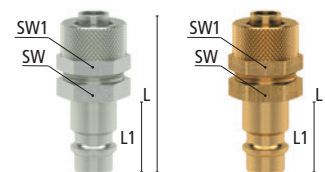
### Bulkhead plugs

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

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

### System-Adapters

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



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

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

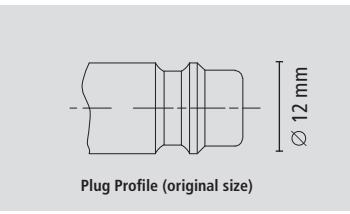


The original

# Quick Connect Couplings

## Series ES straight-through

**DN7.2**



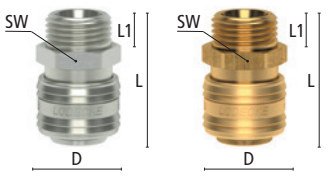
- Universal one-hand quick connect couplings in brass MS 58 plain or nickel-plated
- Robust, safe and reliable
- Sleeve shape to avoid contamination of the coupling mechanics
- Straight-through for optimized flow capacity, particularly for the application with water or other liquids
- To connect with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

### Materials

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

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

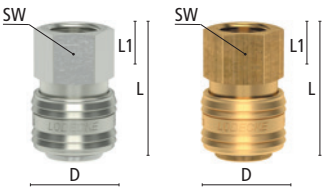
### Couplings with male thread



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

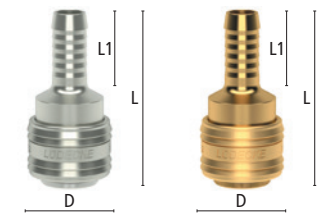
Male thread sealing with PVC-packing rings type HPD (© page 231)

### Couplings with female thread



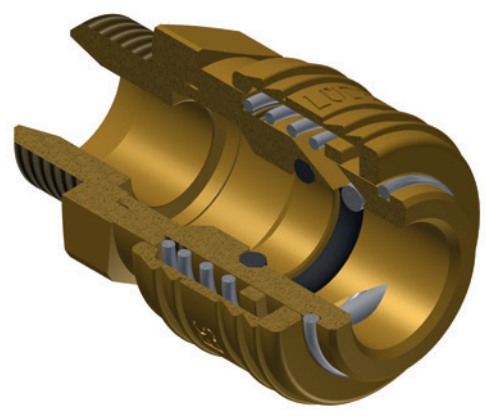
Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/4 f	41	22	27	10.5	92	ESN 14 IO	ES 14 IO
G 3/8 f	41	22	27	10.5	85	ESN 38 IO	ES 38 IO
G 1/2 f	42.5	24	27	12	87	ESN 12 IO	ES 12 IO

### Couplings with hose barb



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

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



The original

# Quick Connect Couplings

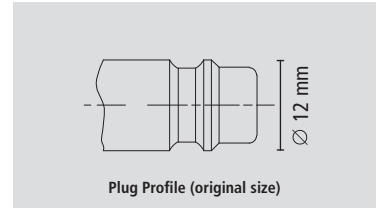
## double shut-off Series ES

**DN7.2**

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

### Materials

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



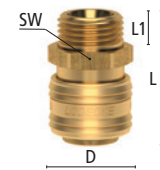
Also in  
Stainless Steel  
Series ESE  
page 294

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

### Couplings with male thread

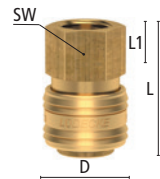
Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 m	40	22	27	9	73	ES 14 AAB
G 3/8 m	41	22	27	9	76	ES 38 AAB
G 1/2 m	41	24	27	10	87	ES 12 AAB
M 16x1.5 m	40	22	27	9	78	ES 1615 AAB

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



### Couplings with female thread

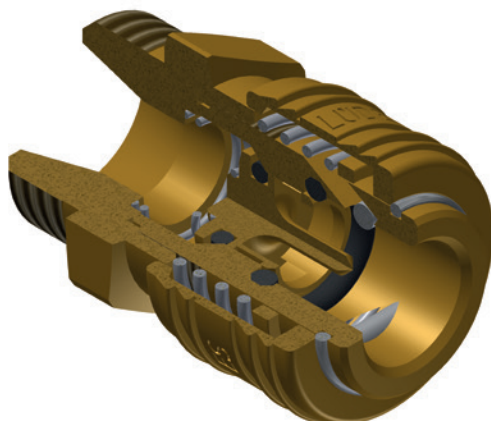
Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	41	22	27	10.5	92	ES 14 IAB
G 3/8 f	41	22	27	10.5	85	ES 38 IAB
G 1/2 f	42.5	24	27	12	87	ES 12 IAB
M 16x1.5 f	41.5	22	27	11	85	ES 1615 IAB



### Couplings with hose barb

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

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

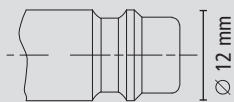


# Quick Connect Couplings

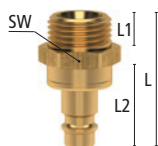
The original

## Series ES double shut-off

### DN 7.2



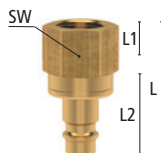
Plug Profile (original size)



#### Plugs with male thread

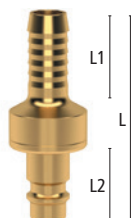
Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 m	43	22	9	20	45	ES 14 NAAB
G 3/8 m	44	22	10	20	48	ES 38 NAAB
G 1/2 m	44	24	10	20	60	ES 12 NAAB
M 16x1.5 m	43	22	9	20	46	ES 1615 NAAB

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



#### Plugs with female thread

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

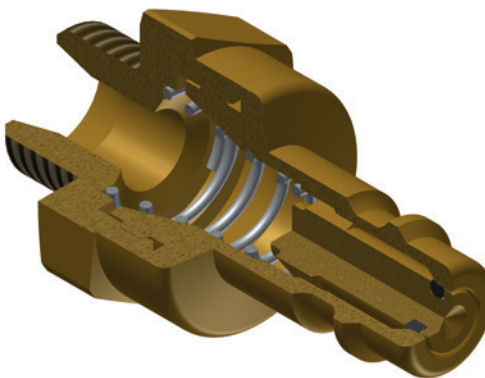


#### Plugs with hose barb

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

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

Further dimensions on request!







# Manifolds for Quick Connect Couplings

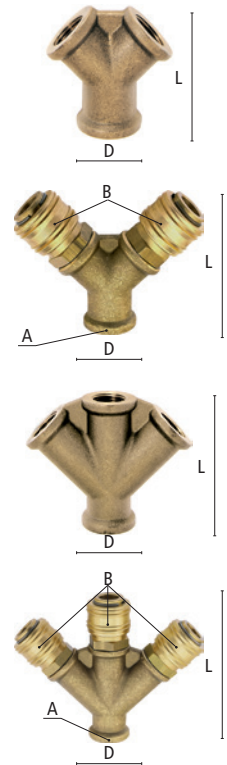
made of Brass MS 58

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

## Materials

- Manifold and quick connect coupling: Brass MS 58 plain

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




# Manifold for Quick Connect Couplings

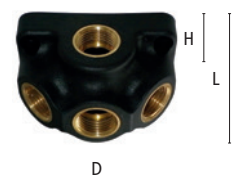
made of Plastic

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

## Materials

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

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





# OptiFlow-Line

## Energy Efficient Quick Connect Couplings



### Compressed air - an expensive media?

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

### Following factors reduce the energy performance:

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

### Effect of such factors:

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

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

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

## LUDECKE OptiFlow-Line

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



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

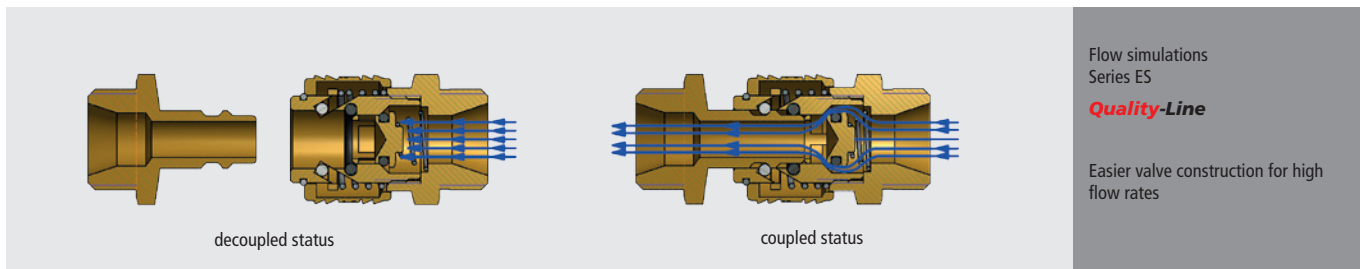
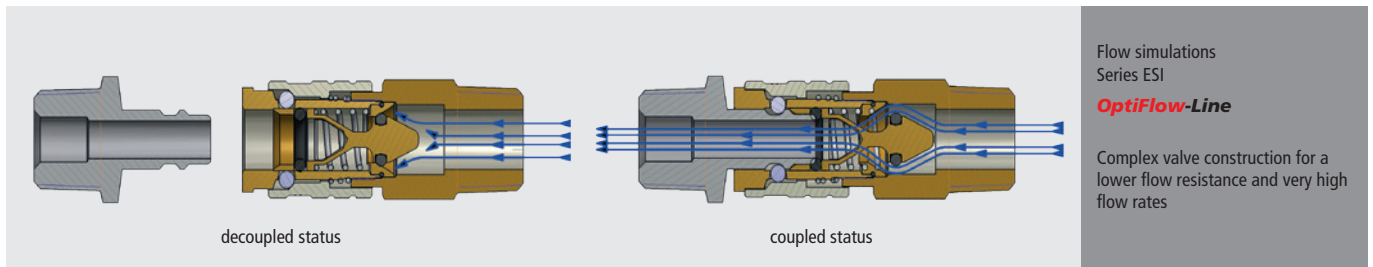
# Different Sizes and Versions

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

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

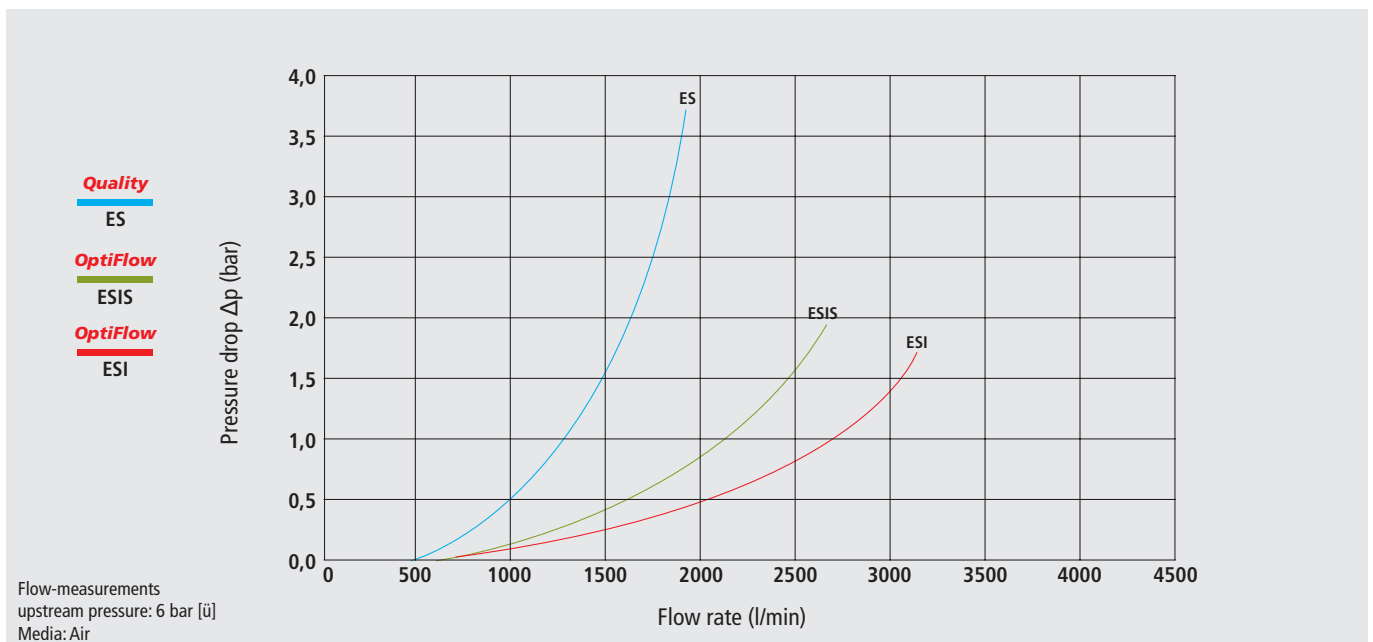
## Flow Simulation Comparison

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



## Flow Chart

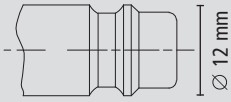
The flow rates of the **LUDECKE OptiFlow-Line** (in to standard couplings) are summarized in the following chart.



# Industrial Quick Connect Couplings

## Series ESI single shut-off

**DN 7.8**



Plug Profile (original size)

Also in  
Stainless Steel  
Series ESIE  
page 298

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

### Materials

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

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

### Couplings with tapered male thread (thread coated)

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

### Couplings with parallel female thread

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

### Couplings with hose barb

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

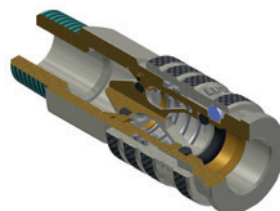
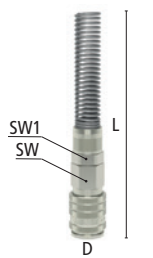
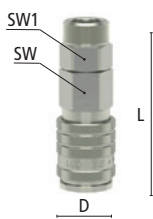
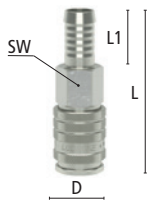
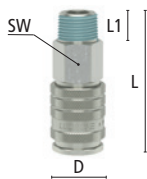
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)

### NEW! Couplings with squeeze nut

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

### NEW! Couplings with squeeze nut and spring guard

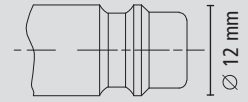
Hose connection	L	SW	D	L1	Weight	Type No.
Hose 5x8	150	19	24	14	124	ESI 58 TQF
Hose 6x8	150	19	24	14	123	ESI 6 TQF
Hose 6.5x8	170	19	24	17	152	ESI 6510 TQF
Hose 8x10	170	19	24	19	162	ESI 8 TQF
Hose 8x12	144	19	24	19	156	ESI 812 TQF
Hose 9x13	170	19	24	19	162	ESI 913 TQF



# Industrial Quick Connect Couplings

## single shut-off Series ESI

**DN7.8**



Plug Profile (original size)

### Plugs with tapered male thread (thread coated)

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



### Plugs with parallel male thread

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



### Plugs with parallel female thread

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



### Plugs with hose barb

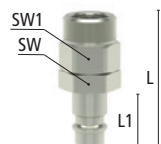
Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	44	12	24	20	13	ESI 6 SS
Hose i.D. 8	44	12	24	20	18	ESI 8 SS
Hose i.D. 9	44	12	24	20	16	ESI 9 SS
Hose i.D. 10	44	12	24	20	18	ESI 10 SS
Hose i.D. 13	44	15	23	20	26	ESI 13 SS

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



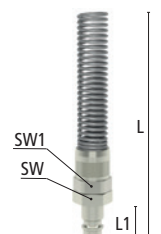
**NEW!** Plugs with squeeze nut

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



**NEW!** Plugs with squeeze nut and spring guard

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

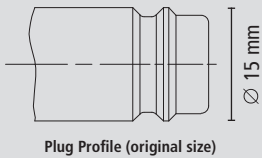




# Industrial Quick Connect Couplings

## Series ESIG single shut-off

**DN 10**

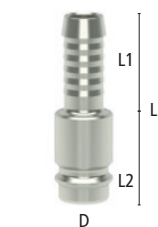
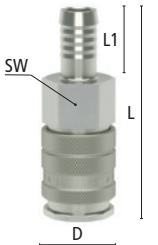
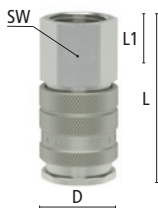
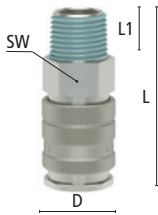


- High-quality, extreme robust one-hand quick connect couplings with superior seal characteristics
- High flow rate with low pressure drop due to streamlined valve
- Special versions, i.e. straight-through couplings on request
- For the supply of compressed air in industry and handcraft at extraction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

### Materials

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

Also in  
Stainless Steel  
Series ESIGE  
page 300



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

### Couplings with tapered male thread (thread coated)

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

### Couplings with parallel female thread

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

### Couplings with hose barb

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

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

### Plugs with tapered male thread (thread coated)

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

### Plugs with parallel female thread

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

### Plugs with hose barb

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

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

# Industrial Quick Connect Couplings

## double shut-off Series ESIG

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

### Materials

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

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

### Couplings with tapered male thread (thread coated)

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

### Couplings with parallel female thread

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

### Couplings with hose barb

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

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

### Plugs with tapered male thread (thread coated)

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

### Plugs with parallel female thread

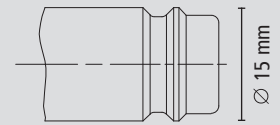
Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 f	55	24	11	21	120	ESIG 38 NIAB
G 1/2 f	55	24	12	21	140	ESIG 12 NIAB
G 3/4 f	59	32	16	21	150	ESIG 34 NIAB

### Plugs with hose barb

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

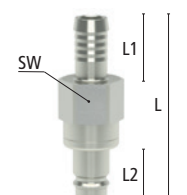
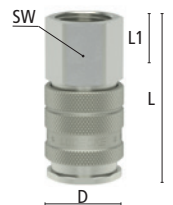
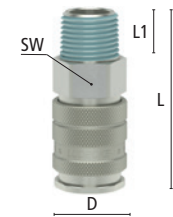
For hose clips type ZOS (⊗ page 414), type HS (⊗ page 415) or crimping ferrules type LPH (⊗ page 418)

**DN 10**



Plug Profile (original size)

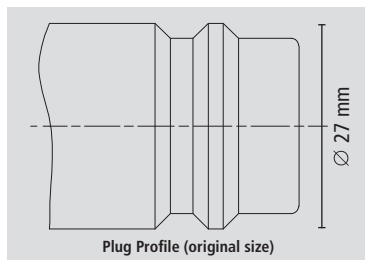
Also in  
Stainless Steel  
Series ESIGE  
page 300



# Industrial Quick Connect Couplings

## Series ESG single and double shut-off

**DN 19**



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

### Materials

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

Also in  
Stainless Steel  
Series ESGE  
page 302

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

### Couplings with male thread

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

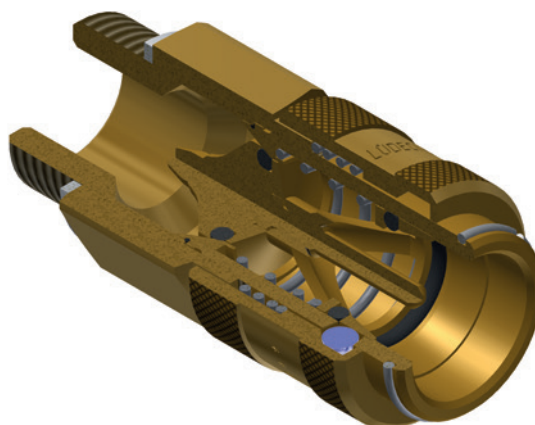
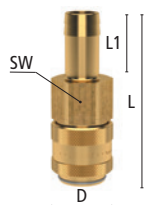
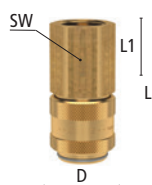
### Couplings with female thread

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

### Couplings with hose barb

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

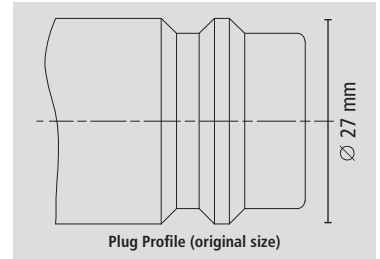
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)



# Industrial Quick Connect Couplings

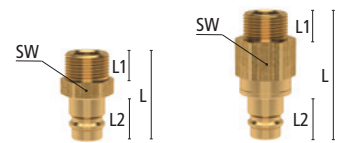
## single and double shut-off Series ESG

**DN 19**



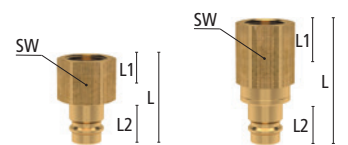
### Plugs with male thread

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



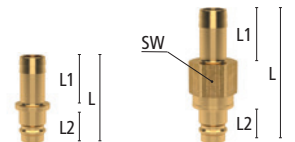
### Plugs with female thread

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

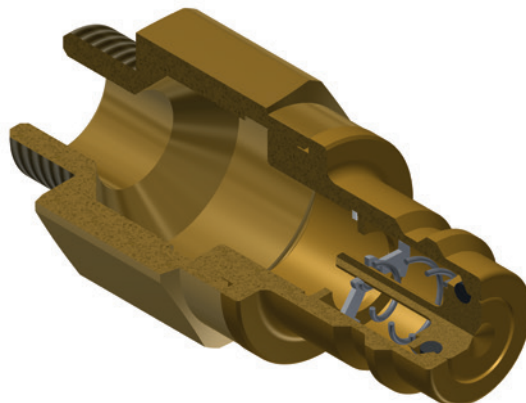


### Plugs with hose barb

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



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





## **SafeConnect-Line**

### Quick Connect Couplings with Safety Function

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



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








The following problems are well-known:

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

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

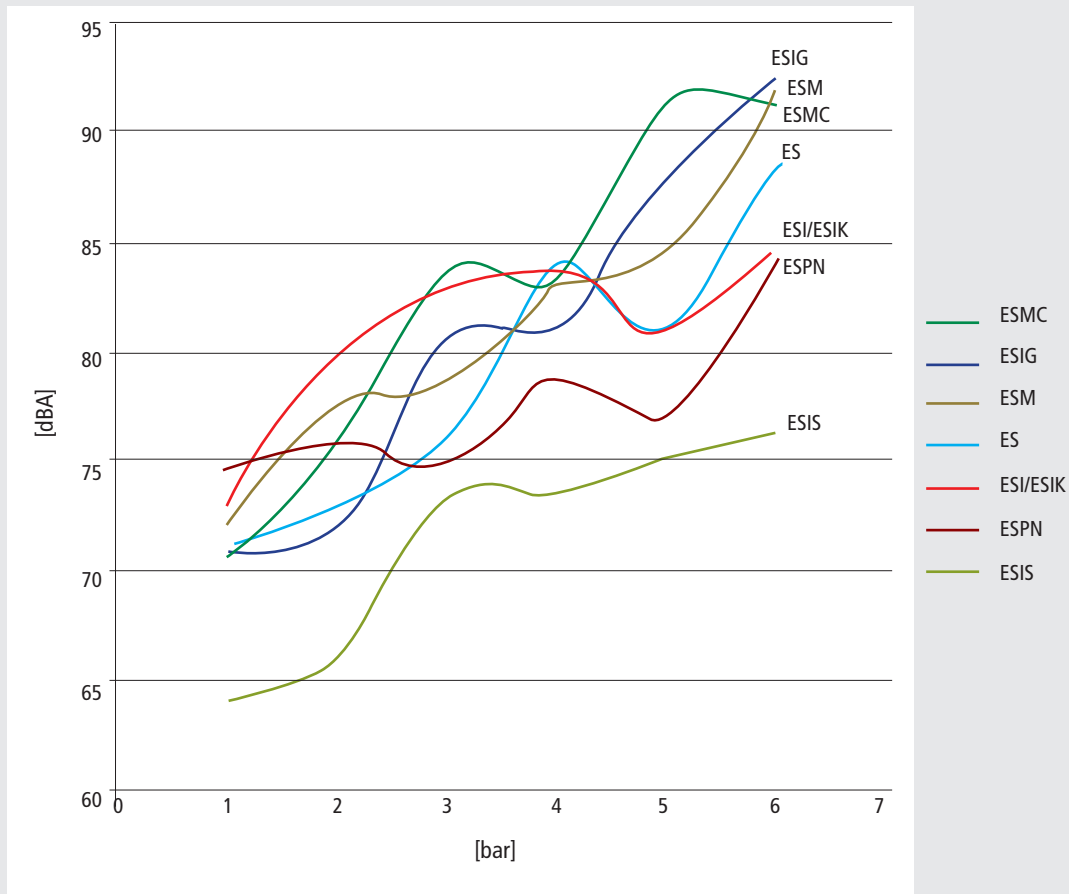
# Different Sizes and Versions

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

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

## Noise Level of Different Quick Connect Coupling Series while Disconnecting

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





## Quick Connect Couplings With Self-Venting



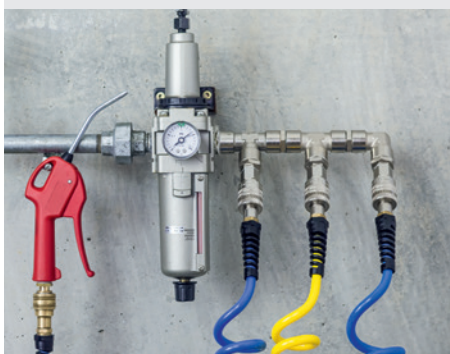
The series ESIS DN 7.8 and ESPN DN 7.4 prevent the whiplashing effect due to their special construction and at the same time reduce the noise level while decoupling.

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

## Sleeve Concept - Series ESIS DN 7.8

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

According to  
ISO 4414/  
DIN EN 983/ BIA



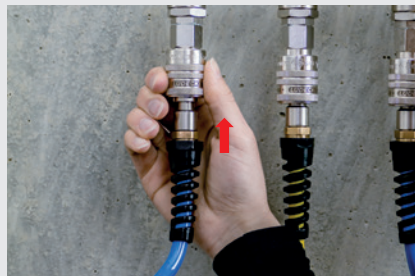


## Operation

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



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



Disconnection - first step: Automatic venting



Disconnection - second step: Pressureless disconnection

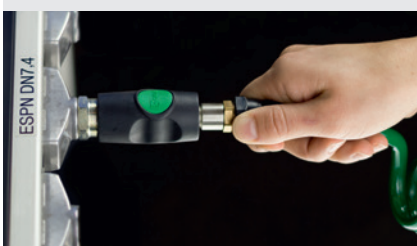
## Push-Button Concept - Series ESPN DN 7.4

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

According to  
ISO 4414/  
DIN EN 983/ BIA

## Operation

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



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



Disconnection - Step 1: Automatic pressure relief



Disconnection - Step 2: Disconnection without danger





## Quick Connect Couplings with Sleeve Lock Mechanism

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

**NEW!**

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

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

#### Operation:



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



Securing of the sleeve through twisting of locking nut



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

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

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

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

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

#### Operation



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



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

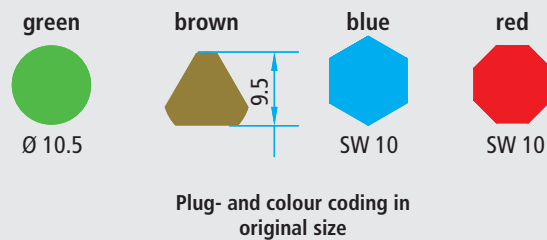


# Quick Connect Couplings with Visual Indication

## Plug and Colour Codification - Series ESMA DN 5

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

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



### Operation



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



Disconnection: Pulling back the coupling sleeve



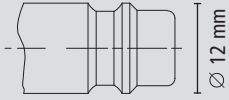
**Wrong colour and coding!**  
Coupling is not possible.

# Safety Self-Venting Couplings

## Series ESIS with Sleeve Concept - single shut-off

According to  
ISO 4414/  
DIN EN 983/ BIA

**DN 7.8**



Plug Profile (original size)

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

### Materials

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

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

### Safety Couplings with tapered male thread (thread coated)

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

### Safety Couplings with parallel female thread

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

### Safety Couplings with hose barb

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

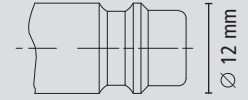
For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)



# Safety Self-Venting Couplings

## single shut-off Series ESIS

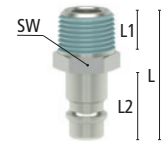
**DN7.8**



Plug Profile (original size)

### Plugs with tapered male thread (thread coated)

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



### Plugs with parallel female thread

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



### Plugs with hose barb

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



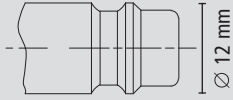
For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)

# Safety Self-Venting Couplings

## Series ESPN Push Button Concept – single shut-off

According to  
ISO 4414/  
DIN EN 983/ BIA

**DN 7.4**



Plug Profile (original size)

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

### Materials

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

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

### Couplings with male thread (coated)

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

### Couplings with female thread

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

### Couplings with hose barb

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

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

### Plugs with tapered male thread (thread coated)

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

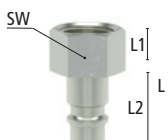
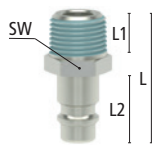
### Plugs with parallel female thread

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

### Plugs with hose barb

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

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



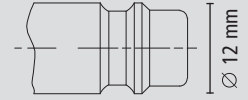
# Safety Quick Connect Couplings with Sleeve Lock Mechanism – single shut-off **Series ES**

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

## Materials

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

**DN7.2**



Plug Profile (original size)

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

## Couplings with male thread

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

## Couplings with female thread

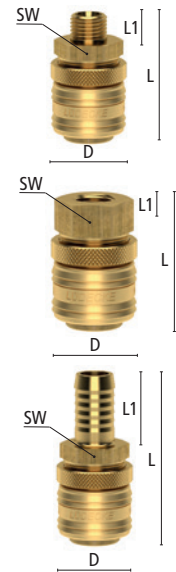
Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	41	22	27	10.5	106	ES 14 IM

## Couplings with hose barb

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

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

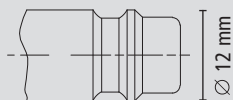
Special versions on request.



# Safety Industrial Quick Connect Couplings

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

**DN 7.8**



Plug Profile (original size)

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

### Materials

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

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

### Couplings with male thread (thread coated)

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

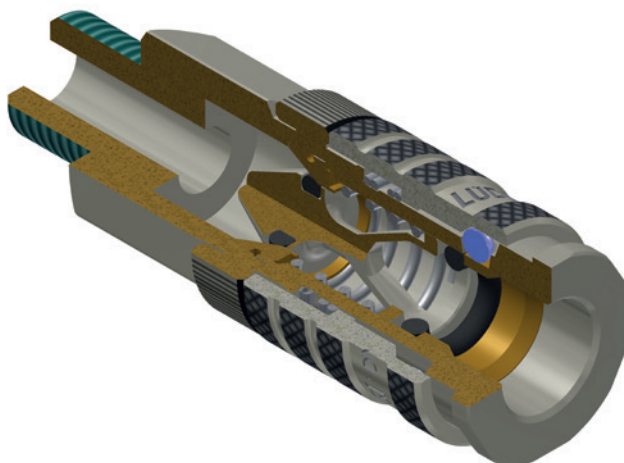
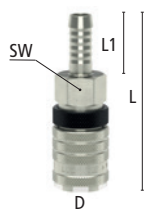
### Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
<b>NEW!</b> G 1/4 f	57	19	23	10	118	ESI 14 IM
<b>NEW!</b> G 3/8 f	57	19	23	10	109	ESI 38 IM
<b>NEW!</b> 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.
<b>NEW!</b> Hose i.D. 6	73	19	23	25	101	ESI 6 TM
<b>NEW!</b> Hose i.D. 8	73	19	23	25	103	ESI 8 TM
<b>NEW!</b> Hose i.D. 9	73	19	23	25	104	ESI 9 TM
<b>NEW!</b> Hose i.D. 10	73	19	23	25	105	ESI 10 TM
<b>NEW!</b> Hose i.D. 13	73	19	23	25	108	ESI 13 TM

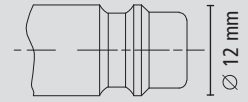
For hose clips type ZOS (☎ page 414), type HS (☎ page 415) or crimping ferrules type LPH (☎ page 418)  
Special versions on request.



# Safety Industrial Quick Connect Couplings

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

**DN7.8**



Plug Profile (original size)

### Plugs with tapered male thread (thread coated)

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



### Plugs with parallel male thread

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



### Plugs with parallel female thread

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



### Plugs with hose barb

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



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

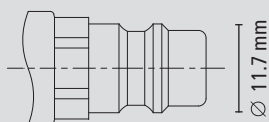


NEW!

# Safety Industrial Quick Connect Couplings

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

**DN 7.8**



Plug Profile (original size)

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

### Materials

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

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

### Couplings with male thread (thread coated)

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

### Couplings with female thread

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

### Couplings with hose barb

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

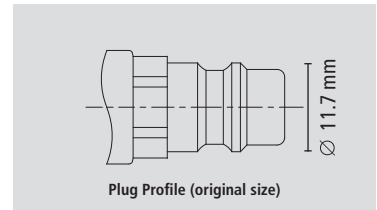
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)  
Special versions on request.



# Safety Industrial Quick Connect Couplings

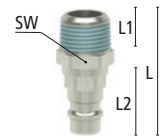
with Sleeve Lock Mechanism and Plug Coding- single shut-off **Series ESIK**

**DN7.8**



**Plugs with male thread and plug coding (thread coated)**

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



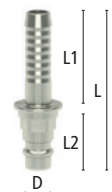
**Plugs with female thread and plug coding**

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



**Plugs with hose barb and plug coding**

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

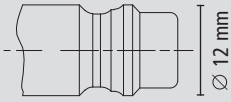


For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)

# Breathing Air Couplings

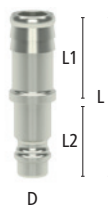
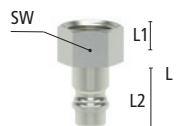
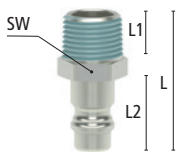
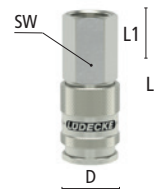
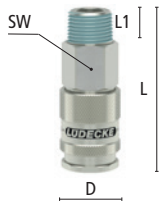
## Series ESI1A with Two-Hand Operation Safety Mechanism - single shut-off

**DN 7.4**



Plug Profile (original size)

According to  
DIN EN 14594



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

### Materials

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

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

### Couplings with tapered male thread (thread coated)

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

### Couplings with parallel female thread

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

### Couplings with hose barb

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

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

### Plugs with tapered male thread (thread coated)

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

### Plugs with parallel female thread

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

### Plugs with hose barb

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

Versions in stainless steel 1.4305 on request.

# Breathing Air Couplings

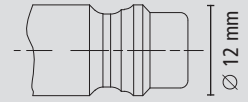
## with Two-Hand Operation Safety Mechanism - single shut-off Series ES12A

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

### Material

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

**DN7.4**



Plug Profile (original size)

According to  
DIN EN 14594

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

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

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

### Couplings with parallel female thread – long version

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

### Couplings with hose barb – long version

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

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

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

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

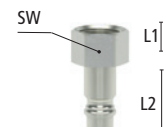
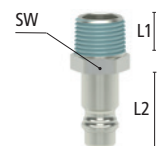
### Plugs with parallel female thread – long version

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

### Plugs with hose barb – long version

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

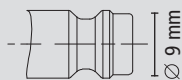
Versions in stainless steel 1.4305 on request.



# Safety Quick Connect Couplings

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

**DN5**



Plug Profile (original size)

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

### Materials

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

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

### Couplings with male thread



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

Male thread sealing with PVC-packings rings type HPD

### Couplings with female thread



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

### Couplings with hose barb

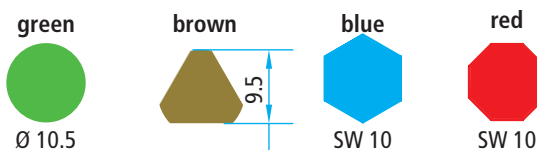


Hose connection	L	SW	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
Hose i.D. 6	69	14	16	17	35	ESMK 6 TG	ESMK 6 TBR	ESMK 6 TBL	ESMK 6 TR
Hose i.D. 9	69	14	16	17	37	ESMK 9 TG	ESMK 9 TBR	ESMK 9 TBL	ESMK 9 TR

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

Couplings double shut-off on request.

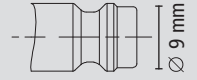
### Plug and colour coding in original size



# Safety Quick Connect Couplings

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

**DN5**



Plug Profile (original size)

## Plugs with male thread

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

Male thread sealing with PVC-packing rings type HPD



## Plugs with female thread

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



## Plugs with hose barb

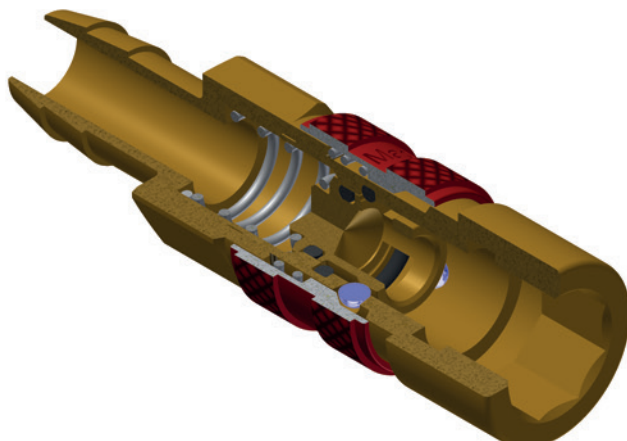
Hose connection	L	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
Hose i.D. 6	47	15	17	12	ESMK 6 SG	ESMK 6 SBR	ESMK 6 SBL	ESMK 6 SR
Hose i.D. 9	47	15	17	15	ESMK 9 SG	ESMK 9 SBR	ESMK 9 SBL	ESMK 9 SR

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



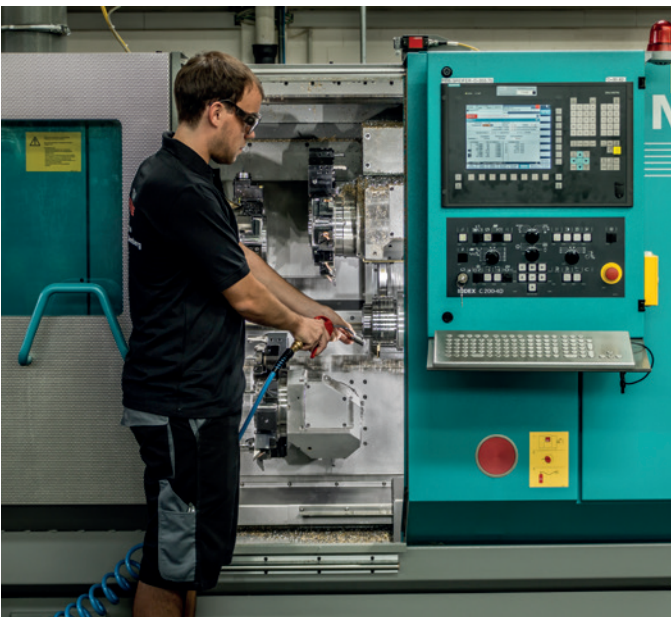
## Bulkhead plugs

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





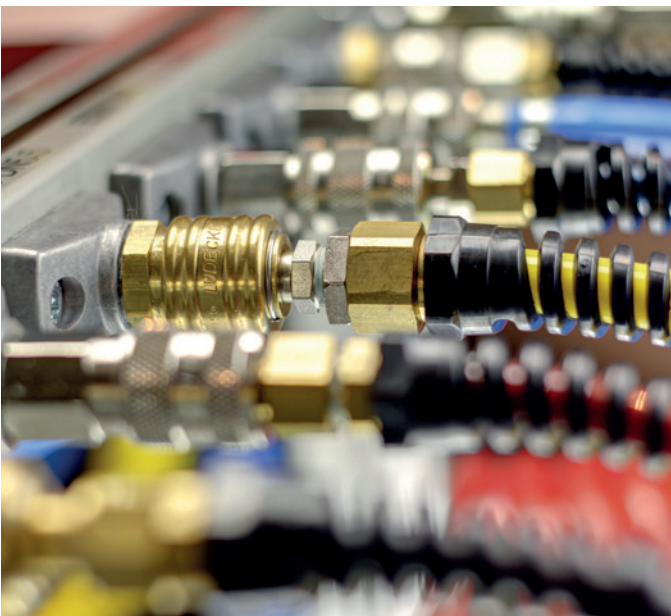
## Quick Connect Couplings with International Plug Profiles



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

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

## Operation



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

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



## Worldwide Range

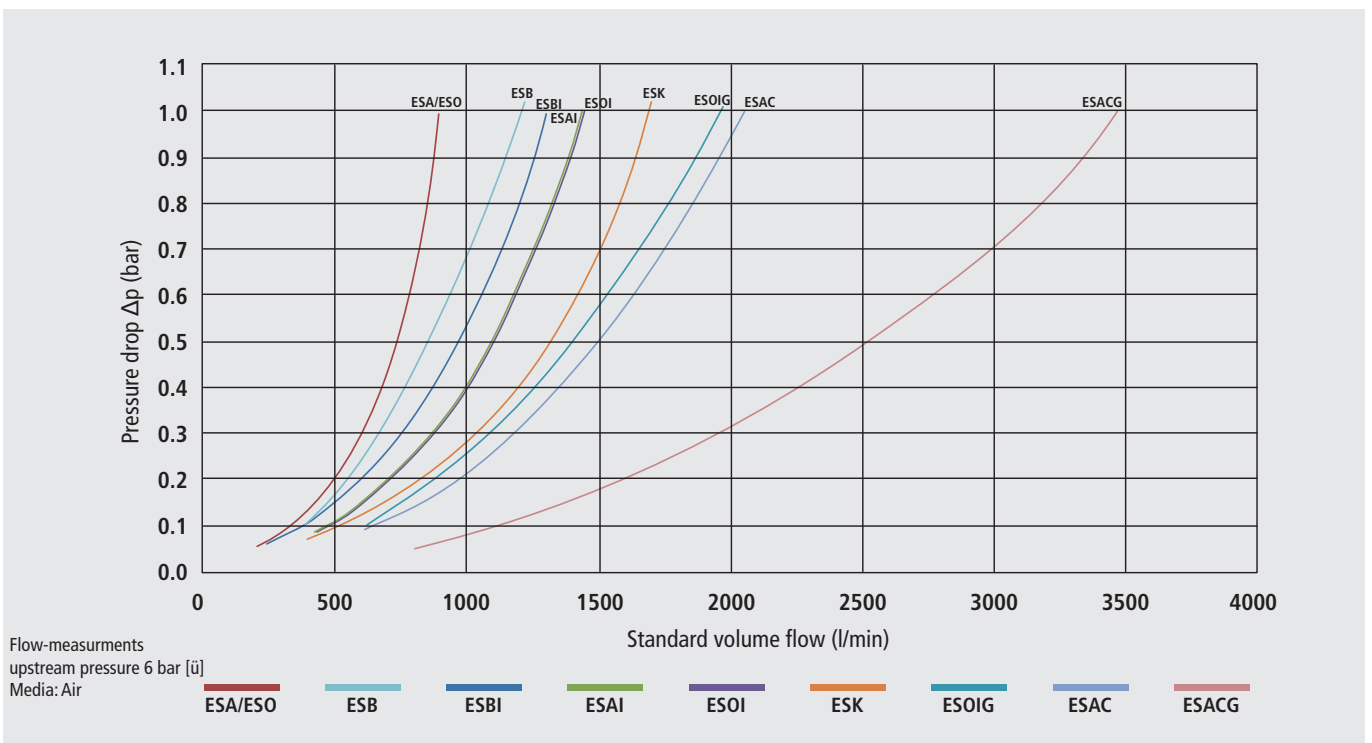


**LUDECKE** offers quick connect couplings especially customized for the following markets:

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

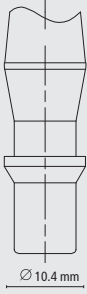


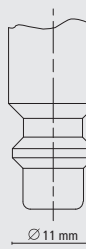
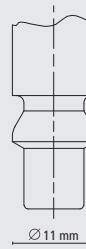
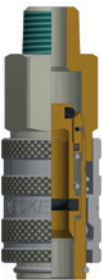


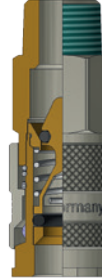






## Flow Capacity

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



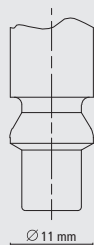


# Overview of the Quick Connect Couplings with

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

# International Plug Profiles

**ESOI**  
DN 5.5



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

EPDM/ FKM/ FFKM

Steel hardened + nickel-pl.

PN 35 bar

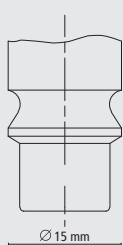
-20°C – +100°C

1140 l/min

single  
one-hand

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

**ESOIG**  
DN 9



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

EPDM/ FKM/ FFKM

Steel hardened + nickel-pl.

PN 35 bar

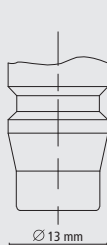
-20°C – +100°C

1400 l/min

single  
one-hand

Rectus Series 40 KA,  
ARO 310, Orion 44520,  
Orion 44530  
Benelux, Switzerland  
91

**ESK**  
DN 7.5



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

EPDM/ FKM/ FFKM

Steel hardened + nickel-pl.

PN 35 bar

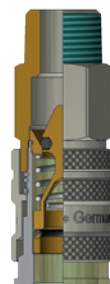
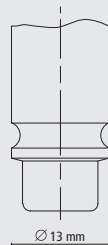
-20°C – +100°C

1375 l/min

single  
one-hand

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

**ESAC**  
DN 8



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

EPDM/ FKM/ FFKM

Steel hardened + zinc-pl.

PN 35 bar

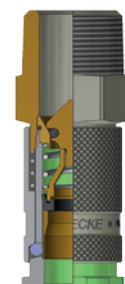
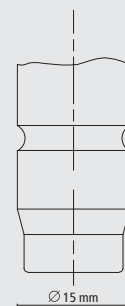
-20°C – +100°C

1500 l/min

single  
one-hand

Parker|Rectus Series 33  
Atlas Copco QIC 10  
  
worldwide  
94

**ESACG**  
DN 10



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

EPDM/ FKM

Steel hardened + nickel-pl.

PN 35 bar

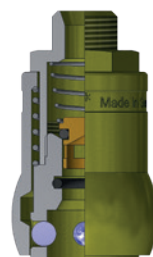
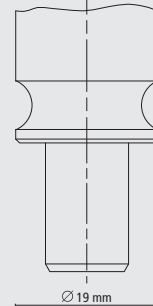
-20°C – +100°C

2600 l/min

single  
one-hand

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

**F1K**  
DN 8



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

EPDM/ FKM/ FFKM

Steel nickel-pl.+yellow  
passivated

PN 35 bar

-20°C – +100°C

1800 l/min

single  
two-hand

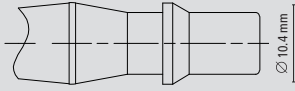
-  
  
Germany  
96

**NEW!**

# Quick Connect Couplings

## Series ESB single shut-off

**DN 5.5**



Plug Profile (original size)

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

**Materials**

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

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

**Couplings with tapered male thread (thread coated)**

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

**Couplings with parallel female thread**

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

**Couplings with hose barb**

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

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

**Plugs with tapered male thread (thread coated)**

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

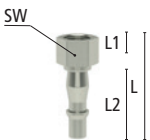
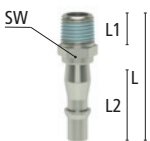
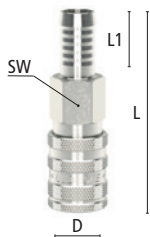
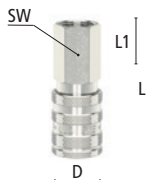
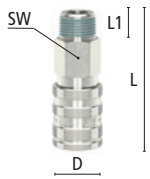
**Plugs with parallel female thread**

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

**Plugs with hose barb**

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

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

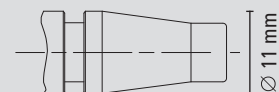


# Industrial Quick Connect Couplings

## single shut-off Serie ESBI

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

**DN5**



Plug Profile (original size)

### Materials

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

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

### Couplings with tapered male thread (thread coated)

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

### Couplings with parallel female thread

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

### Couplings with hose barb

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

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

### Plugs with tapered male thread (thread coated)

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

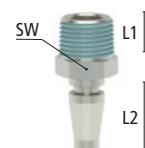
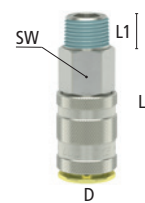
### Plugs with parallel female thread

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

### Plugs with hose barb

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

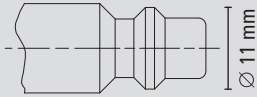
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)



# Quick Connect Couplings

## Series ESA single shut-off

**DN5.5**



Plug Profile (original size)

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

### Materials

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

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

### Couplings with male thread

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

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

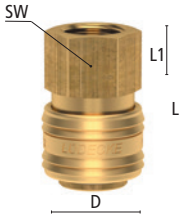
### Couplings with female thread

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

### Couplings with hose barb

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

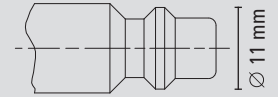
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)



# Quick Connect Couplings

## single shut-off Series ESA

**DN5.5**

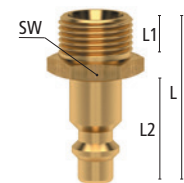


Plug Profile (original size)

### Plugs with male thread

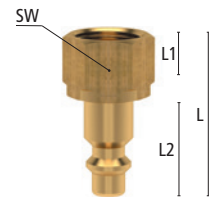
Thread connection	L	SW	L1	L2	Material	Weight	Type No.
G 1/8 m	35	13	7	24	Brass MS 58	19	ESA 18 NAR
G 1/4 m	37	17	9	24	Brass MS 58	23	ESA 14 NAR
G 3/8 m	38	19	9	24	Brass MS 58	31	ESA 38 NAR
NPT 1/8 m	38	13	9.5	24	Brass MS 58	23	ESA 18 NA
NPT 1/4 m	41	14	13	24	Brass MS 58	25	ESA 14 NA
NPT 3/8 m	42	17	13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

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



### Plugs with female thread

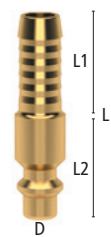
Thread connection	L	SW	L1	L2	Material	Weight	Type No.
G 1/8 f	35	13	9	24	Brass MS 58	18	ESA 18 NIR
G 1/4 f	38	17	12	24	Brass MS 58	27	ESA 14 NIR
G 3/8 f	39	19	12	24	Brass MS 58	26	ESA 38 NIR
NPT 1/8 f	35	13	10	24	Brass MS 58	20	ESA 18 NI
NPT 1/4 f	40	17	14	24	Brass MS 58	29	ESA 14 NI
NPT 3/8 f	42	21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



### Plugs with hose barb

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

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

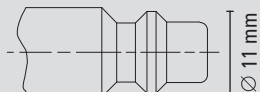


Special versions on request.

# Industrial Quick Connect Couplings

## Series ESAI single shut-off

**DN 5.5**



Plug Profile (original size)

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

### Materials

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

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

### Couplings with tapered male thread (thread coated)

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

### Couplings with parallel female thread

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

### Couplings with hose barb

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

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

### Plugs with tapered male thread (thread coated)

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

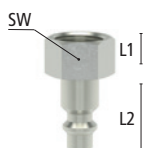
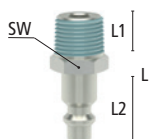
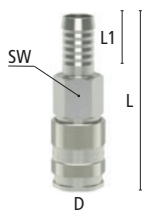
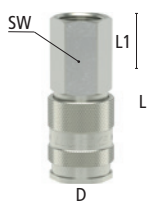
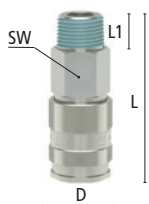
### Plugs with parallel female thread

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

### Plugs with hose barb

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

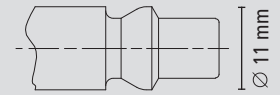
For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)



# Quick Connect Couplings

## single shut-off Series ESO

**DN5.5**



Plug Profile (original size)

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

### Materials

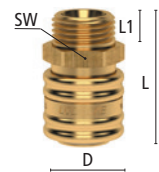
- Body, sleeve, valve body, valve, plug: Brass MS 58 plain
- Springs, retaining ring: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- O-rings: Buna N

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

### Couplings with male thread

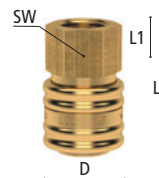
Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 m	42	22	27	9	85	ESO 14 A
G 3/8 m	43	22	27	10	90	ESO 38 A
G 1/2 m	43	24	27	10	105	ESO 12 A

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



### Couplings with female thread

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



### Couplings with hose barb

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

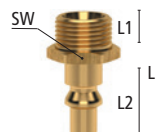
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)



### Plugs with male thread

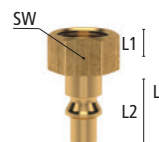
Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m	33	13	6	22	16	ESO 18 NA
G 1/4 m	35	17	8	22	21	ESO 14 NA
G 3/8 m	35	19	8	22	26	ESO 38 NA

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



### Plugs with female thread

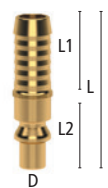
Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	34	17	9	22	23	ESO 14 NI
G 3/8 f	34	19	9	22	23	ESO 38 NI



### Plugs with hose barb

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

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



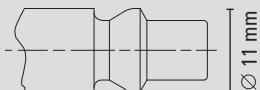
Special versions on request.



# Industrial Quick Connect Couplings

## Series ESOI single shut-off

**DN 5.5**



Plug Profile (original size)

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

### Materials

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

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

### Couplings with tapered male thread (thread coated)

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

### Couplings with parallel female thread

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

### Couplings with hose barb

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

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

### Plugs with tapered male thread (thread coated)

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

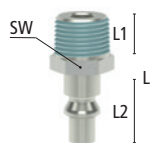
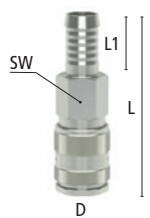
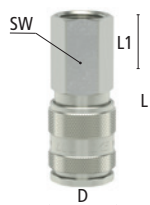
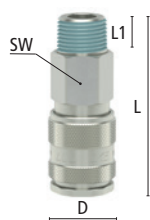
### Plugs with parallel female thread

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

### Plugs with hose barb

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

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



# Industrial Quick Connect Couplings

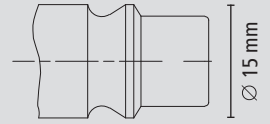
## single shut-off Serie ESOIG

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

### Materials

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

**DN 9**



Plug Profile (original size)

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

### Couplings with female thread

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

### Plugs with tapered male thread

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

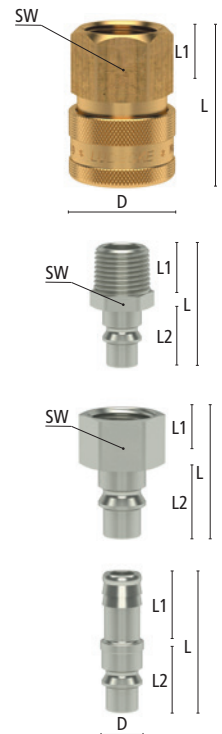
### Plugs with parallel female thread

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

### Plugs with hose barb

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

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



# Quick Connect Couplings

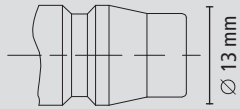
## Series ESK single shut-off

**DN 7.5**

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

### Materials

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



Plug Profile (original size)

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

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

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

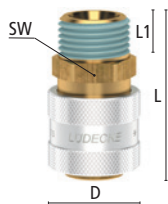
### Couplings with female thread

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

### Couplings with hose barb

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

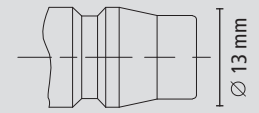
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)



# Quick Connect Couplings

## single shut-off **Series ESK**

**DN7.5**



Plug Profile (original size)

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

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

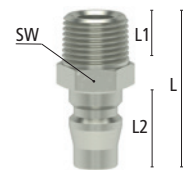
### Plugs with female thread (Steel hardened and nickel-plated)

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

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

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

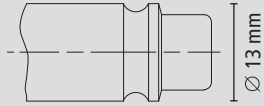
For hose clips type ZOS (© page 414), type HS (© page 415) or crimping ferrules type LPH (© page 418)



# Industrial Quick Connect Couplings

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

**DN8**



Plug Profile (original size)

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

### Materials

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

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

### Couplings with tapered male thread (thread coated)

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

### Couplings with parallel female thread

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

### Couplings with hose barb

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

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

### Plugs with tapered male thread (thread coated)

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

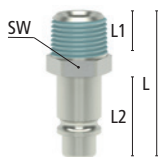
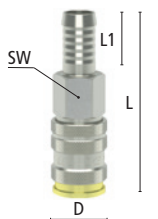
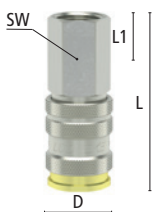
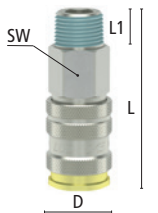
### Plugs with parallel female thread

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

### Plugs with hose barb

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

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



# Industrial Quick Connect Couplings

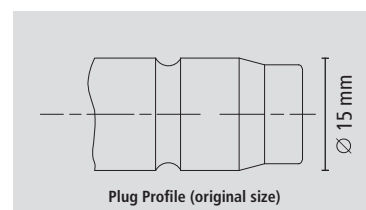
## single shut-off, System "Atlas Copco" Series ESACG

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

**DN 10**

### Materials

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



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

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

### Couplings with hose barb

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

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

### Plugs with tapered male thread (thread coated)

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

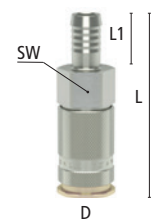
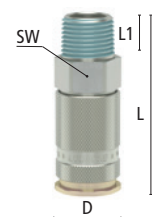
### Plugs with female thread

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

### Plugs with hose barb

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

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

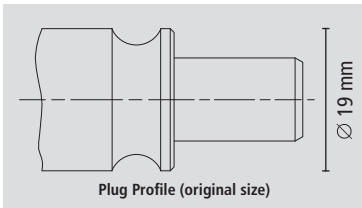


# Quick Connect Couplings

## Series F1K made of Steel - single shut-off

**DN8**

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



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

### Couplings with male thread

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

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

### Plugs with male thread

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

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

### Plugs with female thread

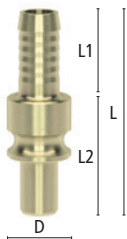
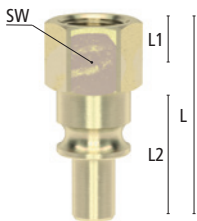
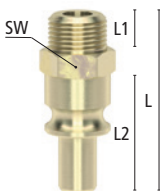
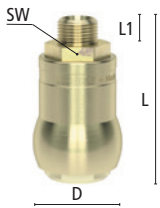
Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	51	19	13	34	60	F1K 14 GI
G 3/8 f	51	22	13	34	69	F1K 38 GI

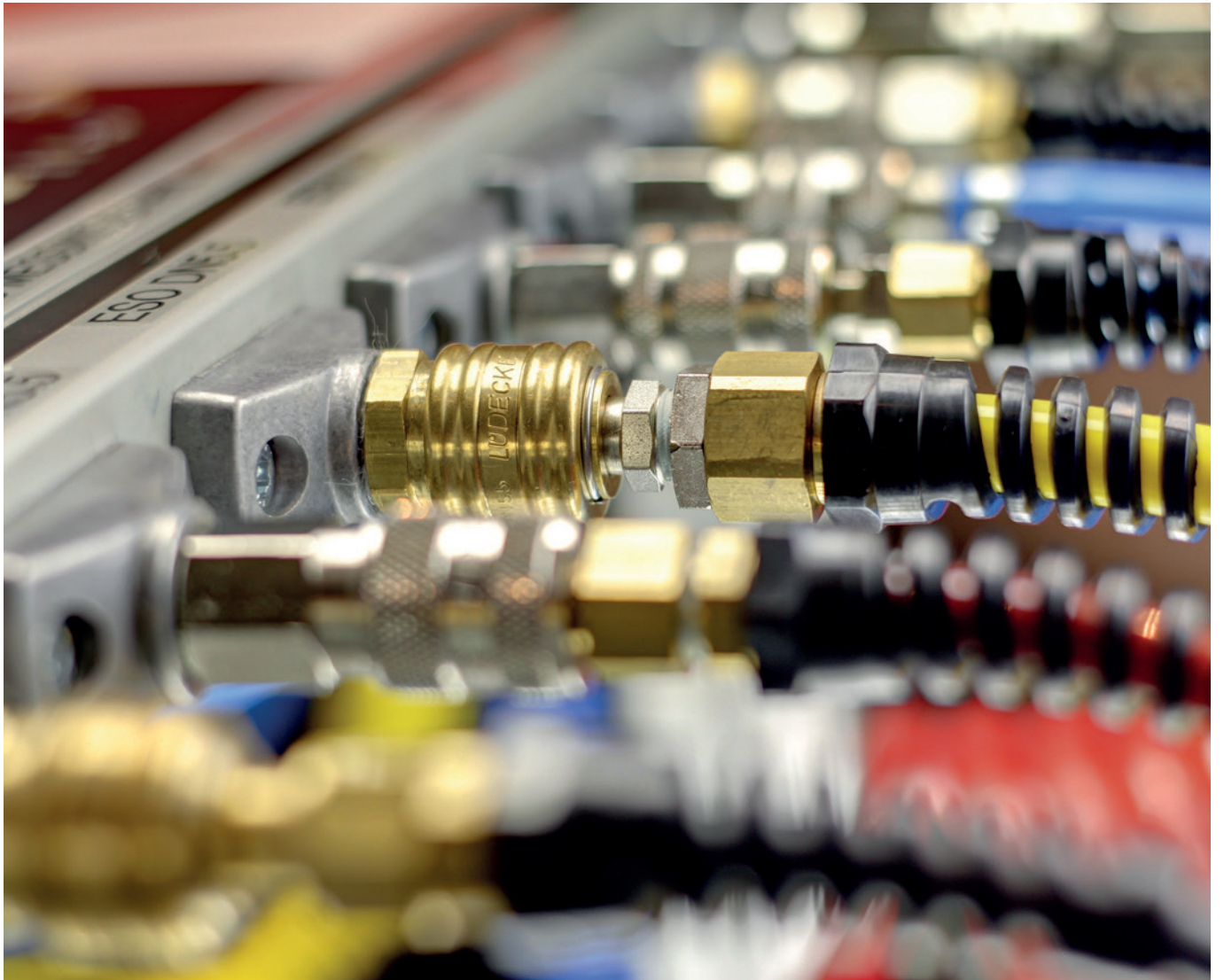
### Plugs with hose barb

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

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

Special versions on request.





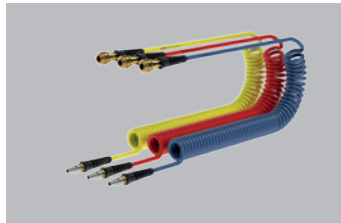




## Pneumatic Accessories

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

### MODY Spiral Hoses made of Polyurethane



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

### Blow-off Valves and Guns



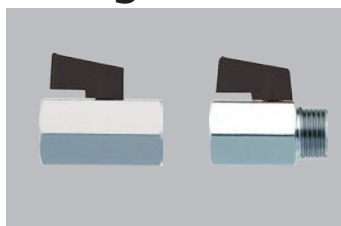
For thorough and fast cleaning or drying of work pieces and working places, compressed air blow-off guns and valves are used. Various types of nozzles offer the right dosage, the required air volume as well as the necessary noise reduction. For flexible use, a combination with MODY spiral hoses is recommended.

### Pneumatic Fittings



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

### Hexagon Ball Valves



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

### Hose Clamps, Hose Clips, Ferrules

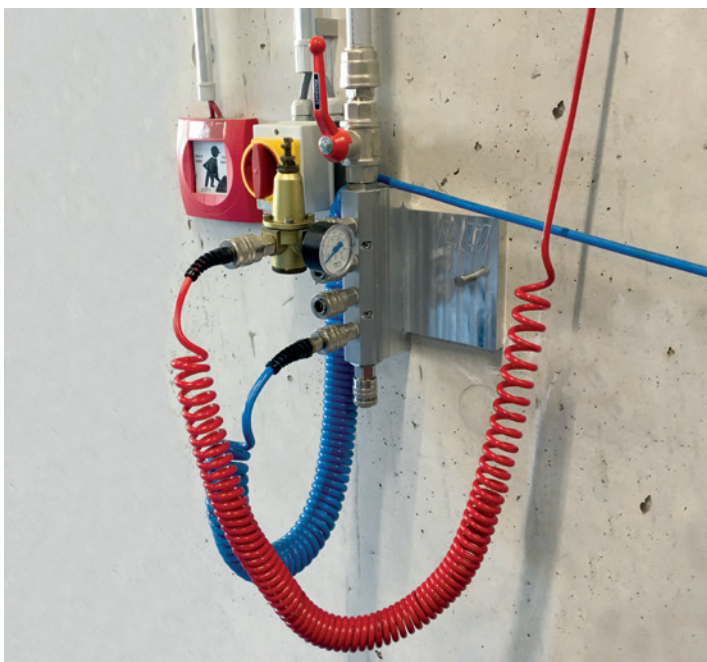


For hose assembly of fittings different assembly methods from strong clamps to light clips or ferrules can be used subject application, media, pressure or hose material. Selection criterias are: safety, removable or non-removable, quickness, necessary devices (i.e. crimping machine), cleanliness or injury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



## MODY Spiral Hoses made of Polyurethane

### Quality makes the Difference



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

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

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

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

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

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



## First-class Suppliers

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

## Premium Materials

### Raw Material

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

### Production Tolerances

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

### Calibration

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

### Adapted to all needs: Polyester based - Polyether based

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

#### Polyester based Polyurethane

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

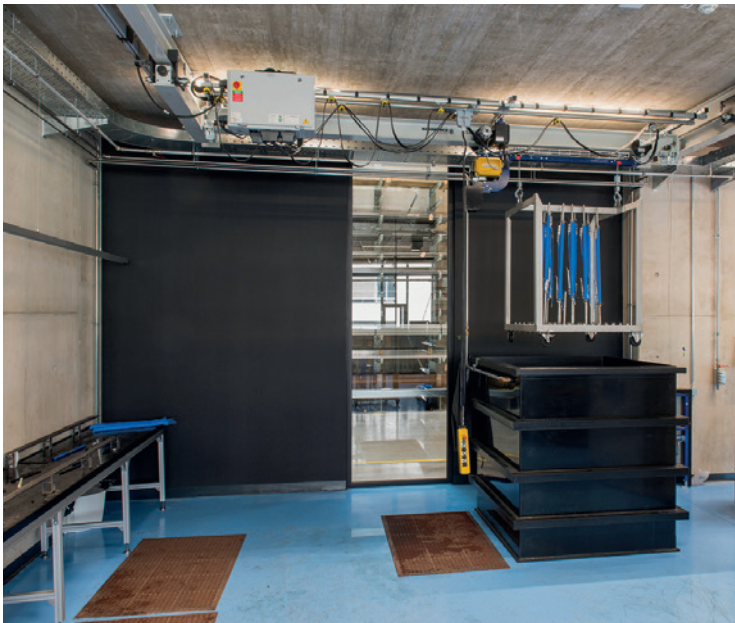
#### Polyether based Polyurethane

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

\*please control separately



## In-house Production



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

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

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



### Quality and Own Production:

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



## Selection & Service

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

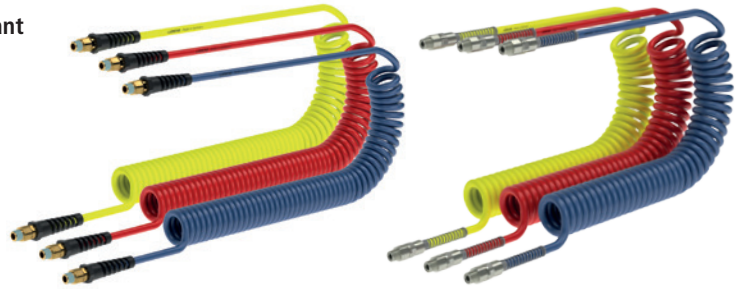
Our competent sales and technical team are always at your disposal for any further questions you may have for a custom fabrication.



# MODY Spiral Hoses made of Polyurethane

## both Sides with Straight Ends

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



MODY Spiral Hoses with Swivelling Screwings on both sides assembled

Hose i.D./o.D.	Hose Length		Outer Spiral Ø	Type No. blue	Type No. yellow	Type No. red	Weight	Thread	
	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 mini
- NW/AD 11/16 with spring of nickel-plated steel
- NW/AD 13/19 with rigid fitting and spring of nickel-plated steel

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

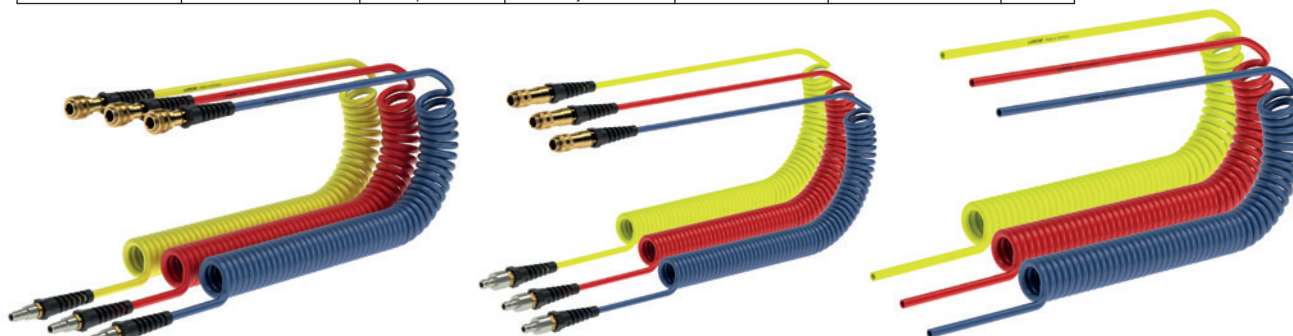


Hose i.D./o.D.	Weight g/m	Type No. blue	Type No. yellow	Type No. red
4/6	20	PUB 46-R	PUG 46-R	PUR 46-R
5/8	40	PUB 58-R	PUG 58-R	PUR 58-R
6.5/10	55	PUB 6510-R	PUG 6510-R	PUR 6510-R
8/12	80	PUB 812-R	PUG 812-R	PUR 812-R
9/13	90	PUB 913-R	PUG 913-R	PUR 913-R
11/16	130	PUB 1116-R	PUG 1116-R	PUR 1116-R
13/19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

## Materials

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

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



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

MODY Spiral Hoses without Fittings

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

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

### Necessary data for special versions

#### Dimensions/ Characteristics:

AL Working Length  
L 1 Short End  
L 2 Long End  
D Spiral Diameter  
i.D./o.D. Size of hose  
Colour  
Inscription

#### Fittings:

Type No. Short End  
Type No. Long End

# Compressed Air Blow-off Sets

## Both Sides with Straight Ends

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

### Materials

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

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

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



Hose- i.D./o.D.	Connection	Max. Working Length		Block Length		Weight	
		Hose Length		Outer Spiral $\varnothing$	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

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



Hose- i.D./o.D.	Connection	Max. Working Length		Block Length		Weight	
		Hose Length		Outer Spiral $\varnothing$	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

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



Hose- i.D./o.D.	Connection	Max. Working Length		Block Length		Weight	
		Hose Length		Outer Spiral $\varnothing$	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.

# MODYFLEX PUR Spiral Hoses made of Polyurethane





## Both Sides with Straight Ends

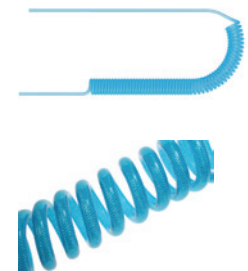
- Robust, extreme durable hose for high working pressure
- Hose of polyurethane, resistant, light and flexible (material extruded of an inner layer, a layer of reinforced braiding and an outer layer, inner and outer layer are made of the same material)
- Extra long straight end for more work flexibility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

**Material**

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

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

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



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

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

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



**System supplementations**

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



# A : S : S Antistatic Spiral Hoses made of Polyurethane

## Both Sides with Straight Ends

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

### Materials

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

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



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

Other hose dimensions or working lengths on request.

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

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

### System supplement

One-hand quick connect couplings (☺ page 38)

Pneumatic screwings (☺ page 118)

Blow-off guns and valves (☺ page 112)



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

Both Sides with Straight Ends

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

## Materials

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

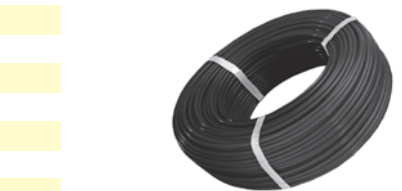
Max. Work. Pressure	Temperature	Media	Colours	Short End	Long End	
PN 12 bar	-20°C – +85°C	Compr. Air, Water, etc.	Black	100	500	1

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



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

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



## System supplement

One-hand quick connect couplings (☺ page 38)

Pneumatic screwings (☺ page 118)

Blow-off guns and valves (☺ page 112)

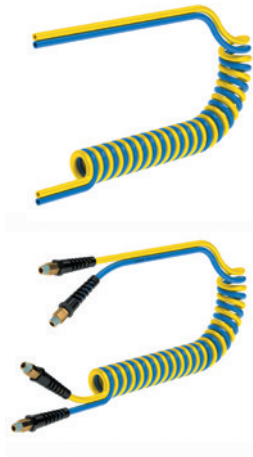
# MODY Duo Spiral Hoses made of Polyurethane

## Both Sides with Straight Ends

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

### Materials

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



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

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

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

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

### System supplement

One-hand quick connect couplings (☺ page 38)

Pneumatic screwings (☺ page 118)

Blow-off guns and valves (☺ page 112)

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

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

## Materials

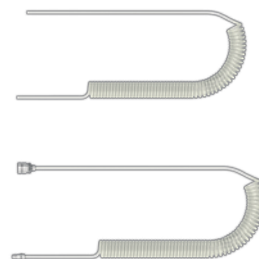
- Hose: Polyurethane (Polyether Polyurethane)
- Coupling, plug: Stainless steel 1.4305

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

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

Food-Safe

**Clean Connect**  
by LUDECKE



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

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


## System supplement

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

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

## Accessories for Mody Spiral Hoses

### Hose Pincer and Replacement Blade

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



# MODY Spiral Hose Fittings

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

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

## Materials

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

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

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

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

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

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

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

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

On request also available in stainless steel 1.4305 against extra charge

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

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

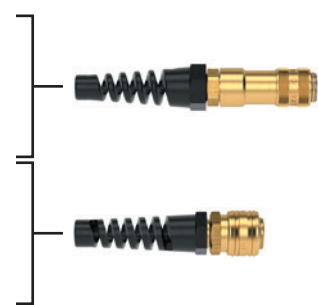
\*with spring of steel, male thread not coated





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

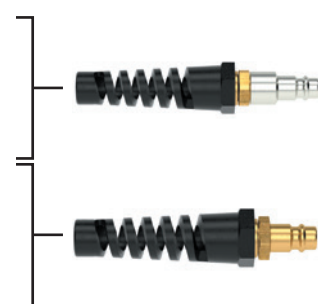
Hose Connection	Connection	Material	Version	Weight	Type No.
swivelling For hose i.D./o.D. 4x6	Coupling ESM DN 5	Brass MS 58	swivelling	55	ESM 4 DVK
swivelling For hose i.D./o.D. 5x8	Coupling ES DN 7.2	Brass MS 58	swivelling	65	ES 5 DVK
swivelling For hose i.D./o.D. 6.5x10	Coupling ES DN 7.2	Brass MS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



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

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

\*Plug ESM 4 SSVK nickel-plated



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



# Compressed Air Blow-off Valves

made of Aluminium/ Brass - Standard Version

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

## Materials

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

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

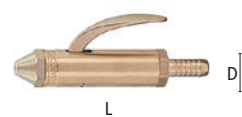
## Compressed Air Blow-off Valves of aluminium



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

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

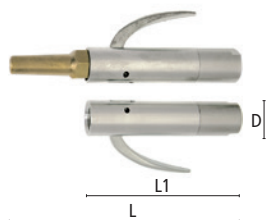
## Compressed Air Blow-off Valves of brass



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

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

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



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

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

# Nozzles and Spare Parts

## for Compressed Air Blow-off Valves Type AHL / AHM

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

- Further nozzles and spare parts

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

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

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

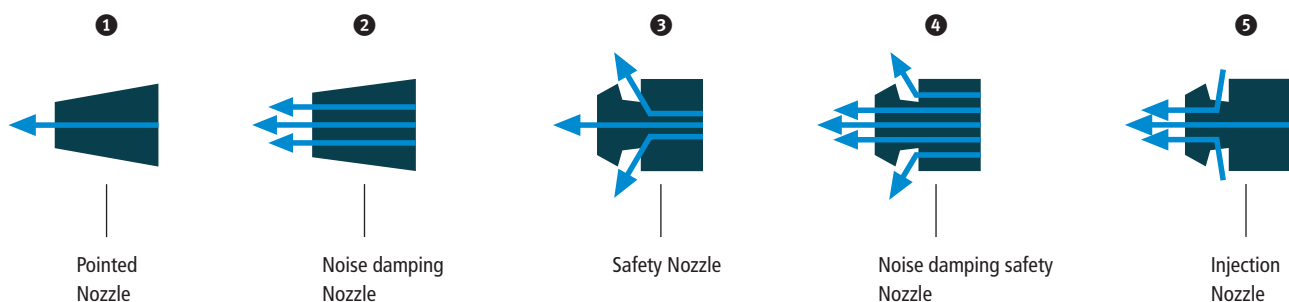


### Nozzles with male thread G 3/8"m for compressed air blow-off valves type AHL/M

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

### Spare parts for blow-off valves type AHL/M

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





# Compressed Air Blow-off Valves

## made of Aluminium Large Bore Version

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

### Materials

- Blow-off valves: Aluminium
- Nozzle: Aluminium



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

### Compressed Air Blow-off Valves made of Aluminium

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

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

**NEW!**

# Compressed Air Blow-off Valve

## made of Stainless Steel

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

### Materials

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

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



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

### Compressed Air Blow-off Valve made of Stainless Steel

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

# Compressed Air Blow-off Guns

## made of Forged Aluminium - Standard Version

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

### Materials

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

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

### Blow-off Gun Standard

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



# Compressed Air Blow-off Guns

## made of Forged Aluminium - Dosage

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

### Materials

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

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

### Blow-off Gun Dosage

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



# Nozzles and Spare Parts

## for Compressed Air Blow-off Guns Type APN and APND

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

- Further valves, screwings and spare parts

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

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

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

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

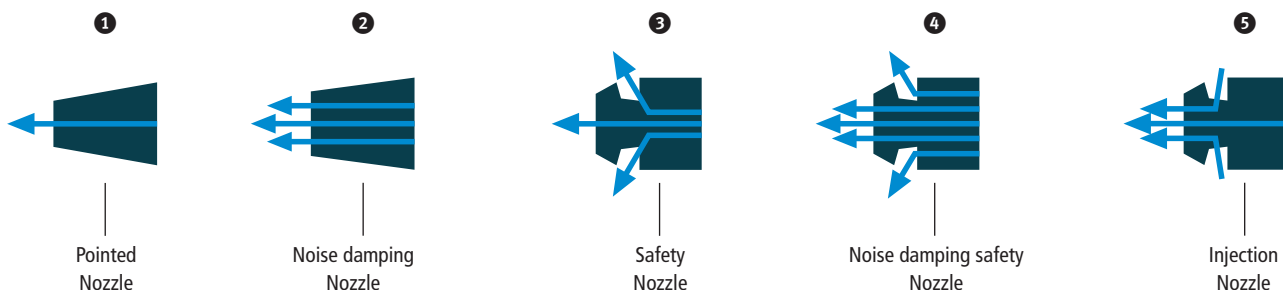
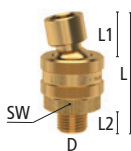
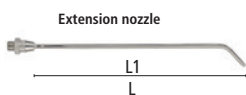
Characteristics	Thread connect.	L	L1	Material		Weight	Type No.
① Pointed nozzle	M 12x1.25 m			Steel	10	20	DÜSE P1
② Noise damping nozzle	M 12x1.25 m			Steel	10	13	DÜSE GD1
③ Safety nozzle	M 12x1.25 m			Steel	10	30	DÜSE SD1
④ Noise damping safety nozzle	M 12x1.25 m			Steel	10	27	DÜSE GSD1
⑤ Injection nozzle	M 12x1.25 m			Steel	10	31	DÜSE J1
Extension nozzle straight	M 12x1.25 m	160	145	Brass MS nickel-pl	10	25	DÜSE VD1
Extension nozzle curved	M 12x1.25 m	115	100	POM/Steel nickel-pl	5		DÜSE VDG 120
Extension nozzle curved	M 12x1.25 m	160	145	Brass MS nickel-pl	5		DÜSE VDG 165
Extension nozzle curved	M 12x1.25 m	260	245	Brass MS nickel-pl	5		DÜSE VDG 260
Noise damping nozzle	M 12x1.25 m			Die cast zinc	10	59	LSD 125
Adjustable nozzle OSHA/SUVA	M 12x1.25 m			ALU/ POM	5		DÜSE GD1 O

### Swivel head screwing for trimming of blow-off nozzles

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

### Spare Parts for compressed air Blow-off Guns type APN

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



# Compressed Air Blow-off Guns

## made of Plastic

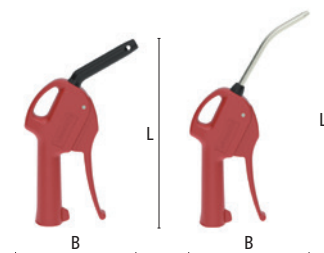
- Blow-off gun of robust, scratchproof, isolating and nonslip composite material
- Perfectly fitted to the shape of the hand and therefore particularly ergonomic
- Input connector meshed with brass insert: complete safety and tightness when mounting
- Targeted jet, nozzle angle and natural alignment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

### Materials

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

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

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



# Compressed Air Blow-off Guns

## made of Die Cast Zinc

**NEW!**

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

### Materials

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

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

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



# Pneumatic Fittings

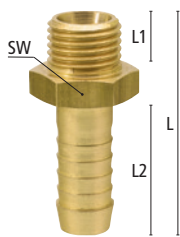
made of Brass Plain

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

## Pneumatic 1/3-Screwings

### Materials

- Screwings: Brass MS 58 plain



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

### Thread stem with parallel male thread and inner cone 37°

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

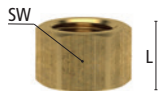
For hose clips type ZOS (☉ page 414), type HS (☉ page 415) or crimping ferrules type LPH (☉ page 418) Thread sealing with PVC-packing rings type HPD (☉ page 231)

\*without inner cone

## Pneumatic 2/3-Screwings

### Materials

- Screwings: Brass MS 58 plain

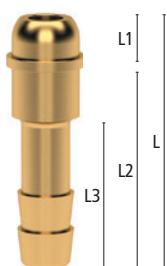


Max. Working Pressure	Thread	Media	
PN 12 bar	ISO 228	Compressed air, Gas u.a	10

### Hexagon nut

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

### Thread Stems with male thread for hexagon nut



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

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

# Pneumatic Fittings

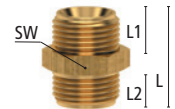
## made of Brass Plain

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

### Pneumatic Double Nipples with male thread and inner cone 37°

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

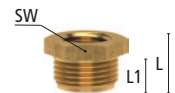
Male thread sealing with PVC-packing rings type HPD (☺ page 231)



### Pneumatic Reducing Nipples with female thread/ male thread

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

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



### Pneumatic Hose Menders

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

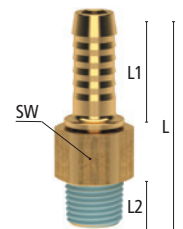
For hose clips type ZOS (☺ page 414), type HS (☺ page 415) or crimping ferrules type LPH (☺ page 418)



### Swivelling thread stems with tapered male thread, Loctite-coated

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

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



# Pneumatic Fittings

made of Brass Plain

## Angle Screwings

### Materials

- Angle screwings: Brass MS 58 plain

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

### Angle Screwings for 45° or 90°



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

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

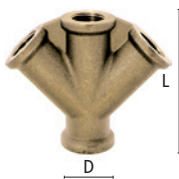
## Manifolds for Quick Connect Couplings

made of Brass MS 58

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

### Materials

- Distributor and quick connect coupling: Brass MS 58 plain



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

### 3-way manifolds with female thread

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

### 4-way manifolds with female thread

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

**NEW!**

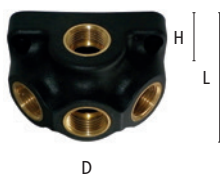
## Manifold for Quick Connect Couplings

made of Plastic

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

### Materials

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



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

### 4-way manifold with female thread

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

# Pneumatic Fittings

## made of Brass Nickel-Plated

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

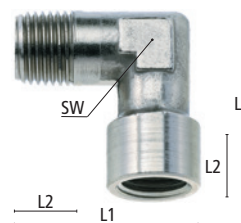
### Materials

- Fittings: Brass MS 58 nickel-plated

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

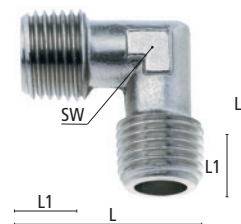
### Elbow Connectors with tapered male thread and parallel female thread

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



### Elbow Connectors with both sides tapered male thread

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



### Elbow Connectors with both sides parallel female thread

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



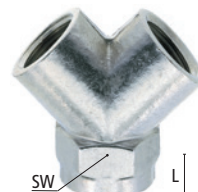
### Y-Connectors with tapered male thread and 2 x parallel female thread

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



### Y-Connectors with 3 x parallel female thread

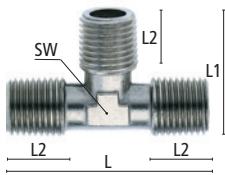
Thread connection	L	SW	Weight	Type No.
3 x G 1/8 f	8	14	32	VF 204-18
3 x G 1/4 f	11	17	36	VF 204-14
3 x G 3/8 f	12	22	42	VF 204-38
3 x G 1/2 f	14	26	101	VF 204-12





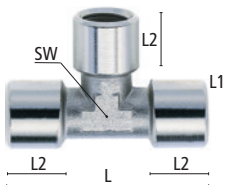
# Pneumatic Fittings

## made of Brass Nickel-Plated



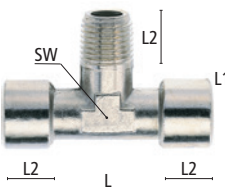
### T-Adaptors with 3 x tapered male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
3 x R 1/8 m	35.5	10	17.8	8	20	VTT 208-18
3 x R 1/4 m	42	11	21	11	30	VTT 208-14
3 x R 3/8 m	50.5	13	25.3	12	56	VTT 208-38
3 x R 1/2 m	57	17	28.5	14	128	VTT 208-12



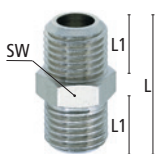
### T-Adaptors with 3 x parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
3 x G 1/8 f	42	11	21	8	31	VTT 200-18
3 x G 1/4 f	51	13	25.5	11	62	VTT 200-14
3 x G 3/8 f	56	17	28	12	97	VTT 200-38
3 x G 1/2 f	66	21	33	14	161	VTT 200-12



### T-Adaptors with tapered male thread and 2 x parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m - 2 x G 1/8 f	42	11	21	8	26	VTC 206-18
R 1/4 m - 2 x G 1/4 f	51	13	25.5	11	56	VTC 206-14
R 3/8 m - 2 x G 3/8 f	56	17	28	12	91	VTC 206-38
R 1/2 m - 2 x G 1/2 f	66	21	33	14	150	VTC 206-12



### Double Adaptor with both sides parallel male thread

Thread connection	L	SW	L1	Weight	Type No.
2 x G 1/8 m	16.7	14	6	10	VNC 260-18
2 x G 1/4 m	21.2	14	8	15	VNC 260-14
2 x G 3/8 m	23.2	19	9	28	VNC 260-38
2 x G 1/2 m	25.7	24	10	32	VNC 260-12
2 x G 3/4 m	29	30	11	68	VNC 260-34

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



### Reducing Double Adaptor with both sides parallel male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m - G 1/4 m	19.2	17	6	8	15	VNR 261-184
G 1/8 m - G 3/8 m	20.2	19	6	9	20	VNR 261-188
G 1/8 m - G 1/2 m	24.7	24	6	10	34	VNR 261-182
G 1/4 m - G 3/8 m	22.2	19	8	9	21	VNR 261-148
G 1/4 m - G 1/2 m	23.7	24	8	10	26	VNR 261-142
G 3/8 m - G 1/2 m	24.7	24	9	10	38	VNR 261-382
G 1/2 m - G 3/4 m	27.5	28	10	11	65	VNR 261-124

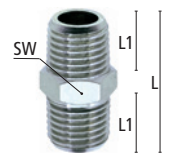
Male thread sealing with PVC-packing rings type HPD (☺ page 231)

# Pneumatic Fittings

## made of Brass Nickel-Plated

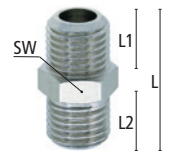
### Double Adaptors with both sides tapered male thread

Thread connection	L	SW	L1	Weight	Type No.
2 x R 1/8 m	19.7	12	7.6	9	VNC 250-18
2 x R 1/4 m	27	14	11	16	VNC 250-14
2 x R 3/8 m	28.2	17	11.6	26	VNC 250-38
2 x R 1/2 m	33.5	22	14	52	VNC 250-12
2 x R 3/4 m	39	27	16.5	69	VNC 250-34



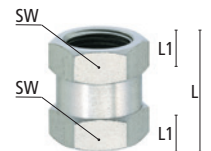
### Reducing Double Adaptors with both sides tapered male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m - R 1/4 m	23.6	14	7.6	11	14	VNR 251-184
R 1/8 m - R 3/8 m	24.2	17	7.6	11.6	19	VNR 251-188
R 1/4 m - R 3/8 m	26.6	17	11	11.6	23	VNR 251-148
R 1/4 m - R 1/2 m	27.6	22	11	14	40	VNR 251-142
R 3/8 m - R 1/2 m	31.5	22	11.6	14	44	VNR 251-382
R 1/2 m - R 3/4 m	37.6	27	14	16.6	68	VNR 251-124



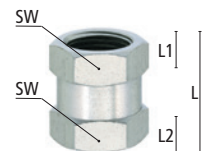
### Double Adaptors with both sides parallel female thread

Thread connection	L	SW	L1	Weight	Type No.
2 x G 1/8 f	15	14	8	12	VM 254-188
2 x G 1/4 f	22	17	11	21	VM 254-144
2 x G 3/8 f	24	22	12	39	VM 254-388
2 x G 1/2 f	30	27	15	50	VM 254-122



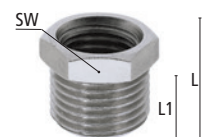
### Reducing Double Adaptors with both sides parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f - G 1/4 f	19.6	17	8	11	25	VM 255-184
G 1/4 f - G 3/8 f	23	22	11	12	47	VM 255-148
G 1/2 f - G 3/4 f	30	32	15	17	107	VM 255-124



### Reducing Adaptors with parallel male and female thread

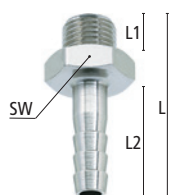
Thread connection	L	SW	L1	Weight	Type No.
G 1/8 f - G 1/4 m	13	17	8	11	VRC 100-148
G 1/4 f - G 3/8 m	14	19	9	12	VRC 100-384
G 3/8 f - G 1/2 m	15.5	24	10	24	VRC 100-128
G 1/2 f - G 3/4 m	17.5	30	12	41	VRC 100-342



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

# Pneumatic Fittings

## made of Brass Nickel-Plated

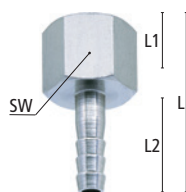


### Hose barb adaptor with parallel male thread

Thread connection	Hose connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m	Hose i.D. 6	32	13	7	20	10	VPG 260-186
G 1/8 m	Hose i.D. 9	32	13	7	20	13	VPG 260-189
G 1/4 m	Hose i.D. 6	34	17	9	20	16	VPG 260-146
G 1/4 m	Hose i.D. 9	34	17	9	20	19	VPG 260-149
G 3/8 m	Hose i.D. 9	35	19	10	20	24	VPG 260-389
G 3/8 m	Hose i.D. 14	39	19	10	24	29	VPG 260-3814
G 1/2 m	Hose i.D. 14	40	24	10	24	39	VPG 260-1214
G 3/4 m	Hose i.D. 20	47	30	12	28	87	VPG 260-3420

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

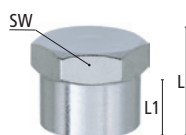
Male thread sealing with PVC-packing rings type HPD (© page 231)



### Hose barb adaptor with parallel female thread

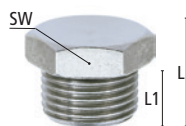
Thread connection	Hose connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	Hose i.D. 6	31	13	9	20	13	VPG 250-186
G 1/4 f	Hose i.D. 6	34	17	11	20	20	VPG 250-146
G 1/4 f	Hose i.D. 9	34	17	11	20	23	VPG 250-149
G 3/8 f	Hose i.D. 9	35	22	12	20	27	VPG 250-389
G 1/2 f	Hose i.D. 13	41.5	24	14	24	45	VPG 250-1213

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



### Hexagon Locking nut with parallel female thread

Thread connection	L	SW	L1	Weight	Type No.
G 1/8 f	12	14	9	11	VE 265-18
G 1/4 f	14	17	10	17	VE 265-14
G 3/8 f	15.5	22	11	27	VE 265-38
G 1/2 f	17	24	12	28	VE 265-12
G 3/4 f	17.5	30	13	47	VE 265-34



### Hexagon Locking nut with parallel male thread

Thread connection	L	SW	L1	Weight	Type No.
G 1/8 m	10.5	14	6	8	VE 261-18
G 1/4 m	13	17	8	14	VE 261-14
G 3/8 m	14	19	9	18	VE 261-38
G 1/2 m	15.5	24	10	27	VE 261-12
G 3/4 m	17.5	30	12	53	VE 261-34

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

# Hexagon Ball Valves

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

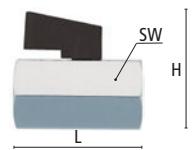
## Materials

- Body: Brass MS 58 nickel-plated
- Ball: Brass MS 58 chrome-plated
- Ball sealing: PTFE
- Handle: Plastic

Max. Working Pressure	Temperature	Thread	Media	
PN 10 bar	-10°C – +90°C	ISO 228	Air / Water	10

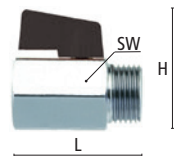
### Hexagon Ball Valves with 2 x female thread

Thread connection	L	SW	H	Bore	Weight	Type No.
2 x G 1/4 f	36	19	38	5.5	71	KM 14 TS
2 x G 3/8 f	41	21	38	8	86	KM 38 TS
2 x G 1/2 f	48	25	42	10	137	KM 12 TS



### Hexagon Ball Valves with female/male thread

Thread connection	L	SW	H	Bore	Weight	Type No.
G 1/4 m - G 1/4 f	36	19	38	5.5	61	KMZ 14 TS
G 3/8 m - G 3/8 f	41	21	38	8	83	KMZ 38 TS
G 1/2 m - G 1/2 f	48	25	42	10	130	KMZ 12 TS

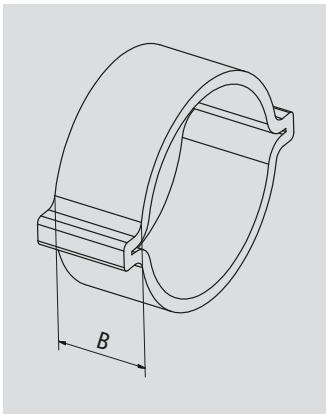


# Double-Ear Hose Clips

- Clips made of special reliable steel, zinc plated and blue chromated (free of chrome VI)
- Easy and fast assembly with pincer
- Concentric and strong clamp-effect, safe and unremovable
- No risk of injury, closed and unremovable connection
- Suitable for assembly of many hoses and fittings for use with various media

## Materials

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



100
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## Double-Ear Hose Clips

Hose-o.D./ Range	B	Weight	Type No.
5-7	5.5	1	ZOS 5-7
7-9	6	2	ZOS 7-9
9-11	6	2	ZOS 9-11
11-13	6	3	ZOS 11-13
13-15	7	4	ZOS 13-15
14-17	7.5	4	ZOS 14-17
15-18	8	5	ZOS 15-18
17-20	8	5	ZOS 17-20
19-21	7	5	ZOS 19-21
20-23	9	8	ZOS 20-23
22-25	9	9	ZOS 22-25
23-27	9	9	ZOS 23-27
25-28	9	10	ZOS 25-28
27-31	9	12	ZOS 27-31
31-34	9	13	ZOS 31-34
34-37	9	16	ZOS 34-37
37-40	9	17	ZOS 37-40
40-43	9	18	ZOS 40-43
Special assembly pincer		332	ZOSZ

# High-Performance Hose Clips

## made of Steel W1 (DIN 3017)

- High-performance hose clips made of steel W1, free of chrome VI, zinc-plated and thick layer passivated
- Optimum sealing through high band tension – maximum strip safety
- Hose-protective through rounded edges and smooth band inside
- Thinner screw body with new position, therefore improved torque
- Material and clamp range stamped at inner band side
- Hexagon screw with cross-slotted head
- Regularly spaced tension over complete hose diameter
- Up to size 90 in boxes, sizes 100-180 in plastic bags, from size 190 individually
- For safe, fast and removable use on various hoses and fittings for various media

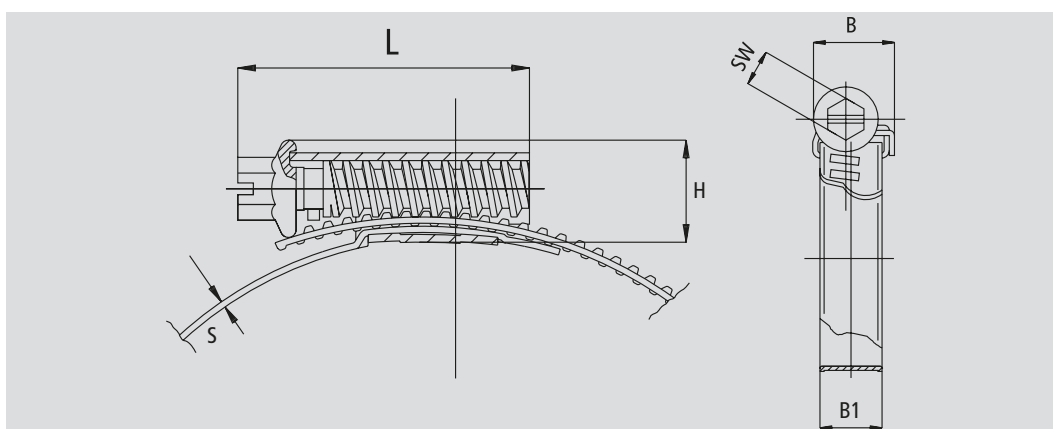
### Materials

- Band, Body, Screw: Steel W1, zinc-plated and thick layer passivated

Norm	
DIN 3017	

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

Range	B	SW	torque		band width					Weight	Type No.
			Max.Nm	L	H	B1	S	band-thickness			
mm	inch										
8-12	5/18-1/2	14	7	2-2.5	20.5	11.5	9	0.7	100	12	HS 12
10-16	5/18-5/8	14	7	2-2.5	20.5	11.5	9	0.8	100	13	HS 16
12-22	1/2-3/4	14	7	3-3.5	24	11.5	9	0.8	100	16	HS 20
16-27	5/8-1	16	7	5-5.5	31	13	9	0.8	100	17	HS 25
20-32	3/4-1 1/4	16	7	5-5.5	31	13	12	0.8	50	27	HS 32
25-40	1-1 5/8	16	7	5-5.5	31	13	12	1.0	50	32	HS 40
30-45	1 3/8-1 3/4	16	7	5-5.5	31	13	12	1.0	50	33	HS 45
35-50	1 1/4-2	16	7	5-5.5	31	13	12	1.0	50	35	HS 50
40-60	1 5/8-2 3/8	16	7	5-5.5	31	13	12	1.0	25	39	HS 60
50-70	2-2 3/4	16	7	5-5.5	31	13	12	1.0	25	43	HS 70
60-80	2 3/8-3 1/8	16	7	5-5.5	31	13	12	1.0	25	45	HS 80
70-90	2 3/4-3 1/2	16	7	5-5.5	37	13	12	1.0	25	52	HS 90
80-100	3 1/8-4	16	7	5-5.5	37	13	12	1.0	10	53	HS 100
90-110	3 1/2-4 3/8	16	7	5-5.5	37	13	12	1.0	10	53	HS 110
100-120	4-4 3/4	16	7	5-5.5	37	13	12	1.0	10	58	HS 120
110-130	4 3/8-5 1/8	16	7	5-5.5	37	13	12	1.0	10	60	HS 130
120-140	4 3/4-5 1/2	16	7	5-5.5	37	13	12	1.0	10	63	HS 140
130-150	5 1/8-5 7/8	16	7	5-5.5	37	13	12	1.0	5	69	HS 150
140-160	5 1/2-6 1/4	16	7	5-5.5	37	13	12	1.0	5	71	HS 160
150-170	5 7/8-6 5/8	16	7	5-5.5	37	13	12	1.0	5	74	HS 170
160-180	6 1/4-7	16	7	5-5.5	37	13	12	1.0	5	77	HS 180
170-190	6 1/2-7 1/2	16	7	5-5.5	37	13	12	1.0	1	79	HS 190
180-200	7 1/8-8	16	7	5-5.5	37	13	12	1.0	1	81	HS 200
190-210	7 1/2-8 1/4	16	7	5-5.5	37	13	12	1.0	1	86	HS 210
200-220	8-8 3/4	16	7	5-5.5	37	13	12	1.0	1	92	HS 220
210-230	8 1/8-9	16	7	5-5.5	37	13	12	1.0	1	98	HS 230
220-240	8 3/4-9 3/8	16	7	5-5.5	37	13	12	1.0	1	101	HS 240
230-250	9-9 3/4	16	7	5-5.5	37	13	12	1.0	1	105	HS 250
240-260	9 3/8-10 1/4	16	7	5-5.5	37	13	12	1.0	1	108	HS 260
250-270	9 3/4-10 1/2	16	7	5-5.5	37	13	12	1.0	1	112	HS 270
260-280	10 1/4-11	16	7	5-5.5	37	13	12	1.0	1	116	HS 280



# High-Performance Hose Clips

made of Stainless Steel W5 (DIN 3017)

- High performance hose clips made of stainless steel W5
- Optimum sealing through high band tension – maximum strip-safety
- Hose-protective through rounded edges
- Stamped band
- Thinner screw body with new position, therefore improved torque
- Material and clip range stamped at inner band side
- Hexagon screw with slotted head
- Regularly spaced tension over complete hose diameter
- Up to size 90 in boxes, size 100 in plastic bags
- For safe, fast and removable use on various hoses and fittings for various media

## Materials

- Band, Body, Screw: Stainless steel W5
- Special Screw Driver: Chromed steel/ plastic

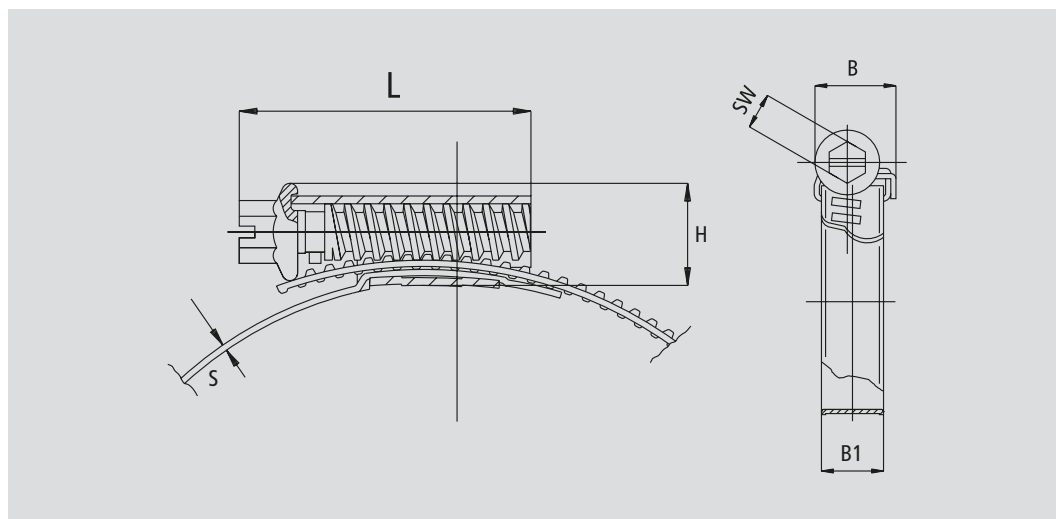
Norm	
DIN 3017	

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

Range	torque				Band-width				Weight	Type No.	
	B	SW	Max. Nm.	L	H	B1	S	band-thickness			
8-12	5/18-1/2	10.5	6	1.5	17	9.5	8	0.7	100	6	HSE 12
8-16	5/18-5/8	14	7	2-2.5	21	14	9	0.8	100	11	HSE 16
12-20	1/2-3/4	14	7	2-2.5	24	14	9	0.8	100	13	HSE 20
16-25	5/8-1	14	7	3-3.5	24	14	9	0.8	100	14	HSE 25
20-32	3/4-1 1/4	14	7	3-3.5	24	14	9	0.8	100	15	HSE 32
25-40	1-1 5/8	14	7	3-3.5	26	14	9	0.8	50	18	HSE 40
32-50	1 1/4-2	14	7	3-3.5	26	14	9	0.8	50	18	HSE 50
40-60	1 5/8-2 3/8	14	7	3-3.5	26	14	9	1.0	25	20	HSE 60
50-70	2-2 3/4	14	7	3-3.5	26	14	9	1.0	25	21	HSE 70
60-80	2 3/8-3 1/8	14	7	3-3.5	26	14	9	1.0	25	23	HSE 80
70-90	2 3/4-3 1/2	14	7	3-3.5	26	14	9	1.0	25	25	HSE 90
80-100	3 1/8-4	14	7	3-3.5	26	14	9	1.0	10	28	HSE 100

## Special hexagon screw driver of chromed steel with plastic handle

Version	SW	Weight	Type No.
Rigid	7	89	SR STARR
Flexible	7	134	SR FLEX.



# Heavy Duty Clamps

made of Steel (DIN 3017)

- Heavy duty clamp made of stainless steel 1.4016
- New special screw with integrated distance tube and better performance
- Reinforced band strap and therefore higher torques (very high breaking torque and very high clamping force)
- Mechanical mounting, therefore no welding points and corrosion contact
- Bridge for sustainable hose relief
- Robust band with rounded edges prevents injuries and hose break
- Simple installation (with manual, pneumatic or electrical standard tools)
- Packed in boxes
- For applications with strict requirements for the hose clamps (for the application of suction and compressed air hoses with high degree of hardness or with plastic / steel core)

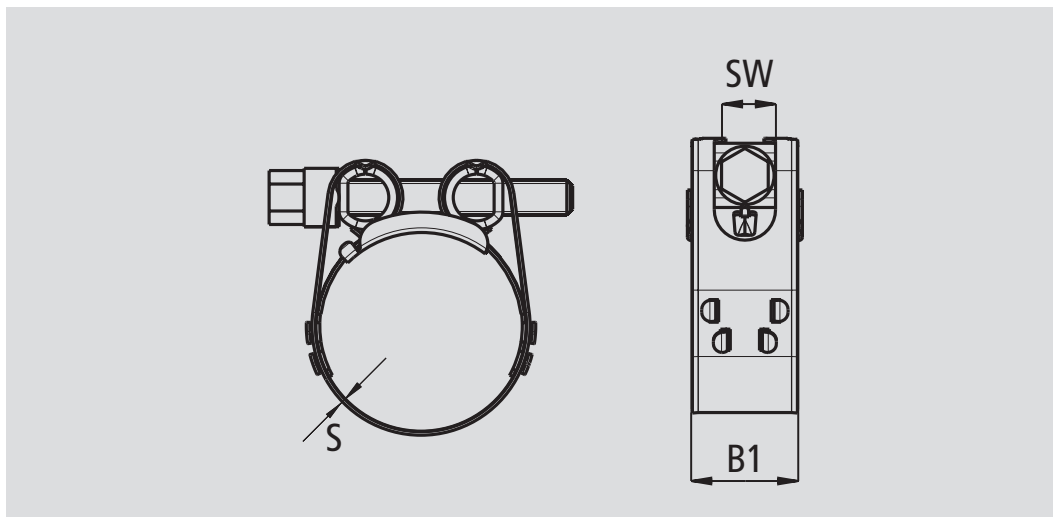
**Materials**

- Band: Stainless steel 1.4016
- Body, Screws: Steel zinc-plated (free of chrome VI)

Norm	
DIN 3017	

**Heavy Duty Clamps**

Range	mm	inch	torque		Band width B1	Band thickness S	Weight	Type No.	
			SW	Max. Nm.					
17-19	11/16-3/4		8	8	18	0.6	100	52	GBSM 19
19-21	3/4-13/16		8	8	18	0.6	100	52	GBSM 21
21-23	13/16-15/16		8	8	18	0.6	100	52	GBSM 23
23-25	15/16-1		8	8	18	0.6	100	52	GBSM 25
25-27	1-1 1/16		8	8	18	0.6	50	52	GBSM 27
27-29	1 1/16-1 1/8		8	8	18	0.6	50	52	GBSM 29
29-31	1 1/8-1 1/4		8	8	18	0.6	50	85	GBSM 31
31-34	1 1/4-1 5/16		8	8	18	0.6	50	85	GBSM 34
34-37	1 5/16-1 7/16		8	8	18	0.6	50	85	GBSM 37
37-40	1 7/16-1 9/16		8	8	18	0.6	50	85	GBSM 40
40-43	1 9/16-1 11/16		8	8	18	0.6	50	85	GBSM 43
43-47	1 11/16-1 7/8		10	10	20	0.8	25	85	GBSM 47
47-51	1 7/8-2		10	10	20	0.8	25	85	GBSM 51
51-55	2-2 3/16		10	10	20	0.8	25	115	GBSM 55
55-59	2 3/16-2 5/16		10	10	20	0.8	25	115	GBSM 59
59-63	2 5/16-2 1/2		10	10	20	0.8	25	115	GBSM 63
63-68	2 1/2-2 11/16		10	10	20	0.8	10	115	GBSM 68
68-73	2 11/16-2 7/8		13	20	25	1.0	10	153	GBSM 73
73-79	2 7/8-3 1/8		13	20	25	1.0	10	153	GBSM 79



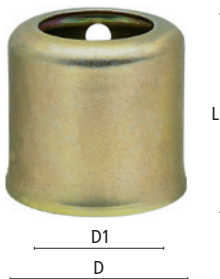


# Ferrules for Low Pressure Hose Lines

- Ferrules of redhotted steel, zinc-plated and yellow passivated
- Easy, fast and absolutely safe hose crimping with **LUDECKE** hand-operated assembly machine SPR 333 up to type LPH-23
- No risk of injury, closed and unremovable connection
- For crimping of various hoses and fittings for use with various media

## Materials

- Body: redhottet steel, zinc-plated and yellow passivated




Max. Working Pressure									
PN 16 bar									
for hose									
D	for hose			L	D1	Assembly-M.	Weight	☐	Type No.
	DIN 20018	Water	PVC						
12.5				17	8.5	SPR 333	3	100	LPH-12,5
13.5			6x3	20	9.3	SPR 333	5	100	LPH-13,5
14.5	6x3.5			17	10	SPR 333	5	100	LPH-14,5
16			8x3	17	11.5	SPR 333	5	100	LPH-16
18	9x3.5		10x3	20	13.5	SPR 333	7	100	LPH-18
19			12x3	20	13.9	SPR 333	9	100	LPH-19
19.5				26	14.5	SPR 333	10	100	LPH-19,5
21				26	14.5	SPR 333	12	100	LPH-21
22				32	17	SPR 333	16	100	LPH-22
23		13x3		32	17	SPR 333	18	100	LPH-23
25	13x5			32	17		19	100	LPH-25
28	15x6			32	20.5		22	100	LPH-28
30.5		19x4		33	24.3		24	100	LPH-30
33	19x6			35	24.8		40	100	LPH-33
38		25x4.5		35	28		47	25	LPH-38
41	25x7			40	30		64	25	LPH-41

For higher Working Pressure we recommend hydraulic crimping with turned steel-ferrules type PH (☐ page 261) or on request.

# Hand-operated Assembly Machine

## for low pressure ferrules

- Crimping machine for easy and safe assembly of low-pressure hoses from 3 to 20 mm Hose i.D.
- **Clean:** Exact assembling of fitting, hose and ferrule through centric crimping of the ferrule
- **Inexpensive:** Fast assembling at reasonable costs
- **Safe:** Improved safety through perfect fit
- **Elegant:** Reduced danger of injury
- With two crimping-jaw sets for crimping range from 3 to 20 mm and from 10 to 20 mm.
- **Flexible:** For mobile use

For hoses							
Hose o.D./							
Hose i.D.	Range	suitable ferrule	e.g. for fitting		Weight	Type No.	
3-20	10-22	LPH 12.5-23	Pneumatic-Connect., ES-Couplings	1	12.2	SPR-333	

