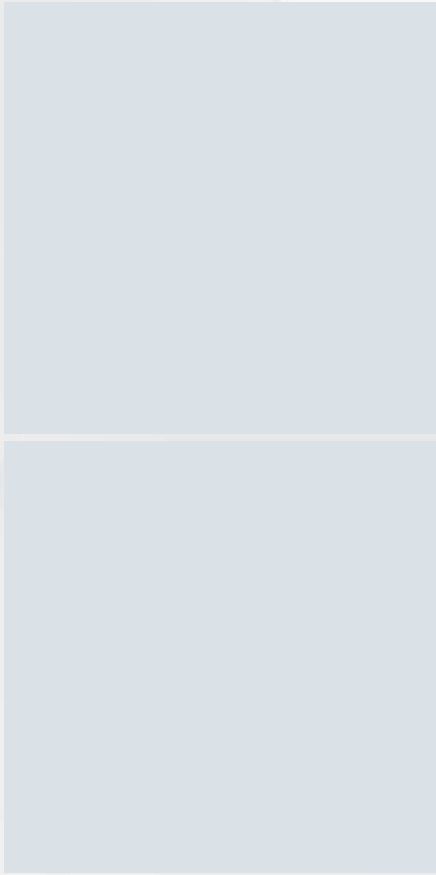


ONE VISION. ZERO EMISSIONS.



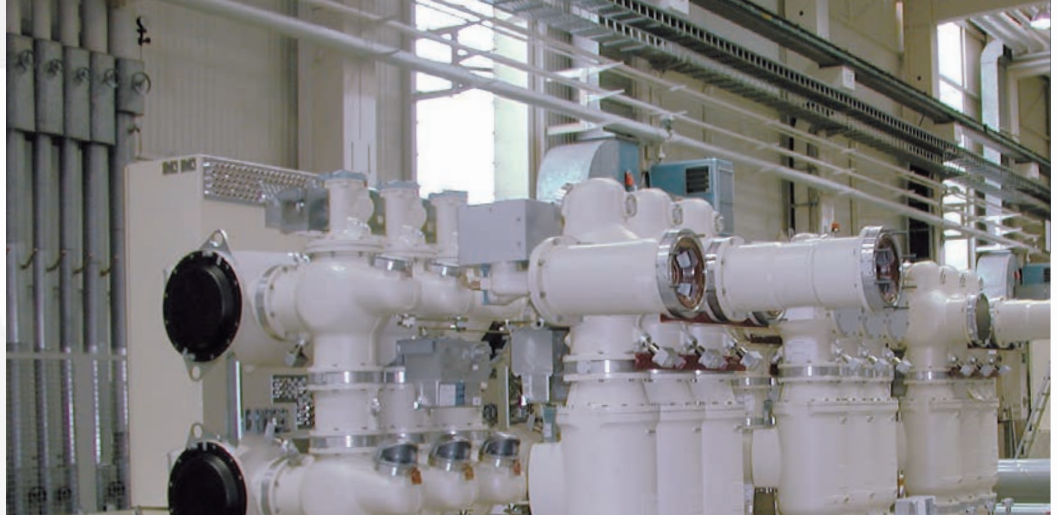
VALVES AND
CONNECTIONS
FOR SF₆ GAS



QUALITY. MADE IN GERMANY.



General.....	5 - 10
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DILO offers the widest valves and couplings product range in the world. Whether for medium voltage switchgear, high voltage switchgear or gas-insulated lines (GIL) our products always meet your requirements.

The DILO sealing principle prevents the loss of SF₆ gas and moisture from penetrating the SF₆ gas system. DILO couplings will eliminate the loss of SF₆ gas by incorrect gas handling. Thanks to their reliability, quality and durability DILO couplings are the world's most widely used connecting system for SF₆ switchgear.

GENERAL

The DILO seal principle.....	06
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Symbols for valves and fittings.....	10
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THE DILO SEAL PRINCIPLE

DILO is a seal principle without intermediate seal in the form of groove and tongue with little depth of immersion. This principle guarantees permanent tightness at high static and dynamic alternating stresses which might result from vacuum and pressure in connection with high temperatures and vibrations inside the tubing systems.

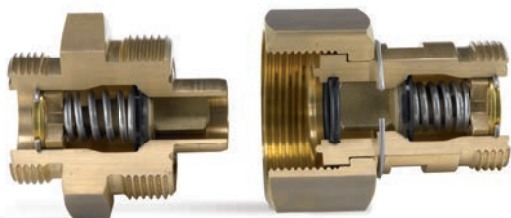
Sealing in accordance with the DILO principle is effected by direct contact of the sealing profiles of the groove and tongue parts. The different radii of curvature of groove and tongue are in a certain relation to each other.

Thus, two ring-shaped sealing areas are produced which create high stability.

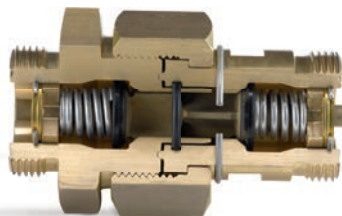
The additional braking surface prevents plastic deformations at the ring-shaped sealing areas.

DILO fittings are easy to assemble and require no maintenance. They can loosened and re-connected as often as desired. Thus, the re-use of the DILO seal is guaranteed. Due to the little depth of immersion of DILO groove and tongue the tubes can be immediately pulled out laterally after loosening the clamping nut.

The DILO seal principle



open coupling



closed coupling

DILO couplings allow a connection to be made by simply screwing the two coupling parts together. Before the metal to metal seal closes the pressure and vacuum tight coupling is sealed inside by means of an O-ring. When loosening the coupling parts again the same O-ring prevents gas loss whilst the self seal valves close.

Advantages of application

- Self-closing coupling system
- Pressure and vacuum-tight even when coupling and uncoupling
- Leak rate $\leq 1 \times 10^{-9}$ mbar l/s (DN6 - DN20)*
- Permanent tightness even when frequently connected and disconnected
- Applicable up to PN 64 bar
- Suitable for temperatures from -60 °C to +80 °C
- Direct connection to DILO service carts without adapter
- Resistant to vibrations without any additional protection
- Available in different materials even for outdoor switchgear

*DN40 on request

EXPLANATION OF DILO-PRESSURE STAGES



Series	ML1	Valves	Accessories	Hoses
Pressure stage up to	PN2 - PN64			PN 25 / 40 / 64

DILO-Type explanation

Explanation of abbreviations used in our catalogue

ML1 Soldering-stub unions with metric connecting dimensions

Illustration of different structural shapes of DILO-soldering unions

A Soldering union



B Screw-in stub-soldering union



M Gauge connecting union



Material standards

Material No. DIN	Material designation	DILO material code letter
1.4571	X6CrNiMoTi17-12-2	C
CW614N	CuZn39Pb3	P
EN AW-6082	EN AW-ALSi1MgMn	T
1.4305	X10CrNiS189	E
CW713R	CuZn37Mn3Al2PbSi	H

SURFACE TREATMENT AND CLEANING

Before dispatch or storage, the finished valves and fittings must be treated as follows:

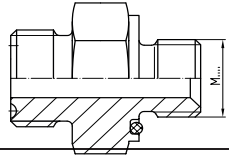
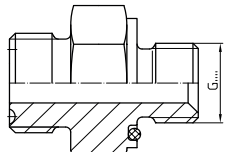
- austenitic material is cleaned
- brass material is cleaned
- aluminium material is anodised, the thread is lubricated with Molykote

Version

Version of the screw-in stub with O-ring sealing (can also be supplied in special design with edge acc. to DIN 3852-1 form B and DIN EN ISO 1179-4 form B).

Design of the screw-in holes for the isometric thread as well as for Whitworth-pipe threads according to DIN 3852-1 form X and DIN EN ISO 1179-1.

Technical data of threads

Type of thread	Standards	Code designation	Illustration
Metric thread	DIN 13 thread angle 60°	M	
Whitworth thread	DIN/ISO 228 thread angle 55°	G	

Soldering process

DILO-soldering unions can be soldered by the well-known „autogenous“ soldering techniques.

Packing

Parts are all hermetically sealed in PVC to ensure they are kept free of dust and dirt. The unions are protected against damage by plastic caps.

O-ring and rubber seal

For all coupling parts an EPDM rubber seal is used as sealing material.

QUALITY ASSURANCE



Quality assurance takes the first place within the DILO-organization. Our approved and authorized experts permanently check the material carefully. The entire raw material is ordered according to DILO approval-/ order regulations. Thus it is guaranteed that all necessary tests have been carried out which is confirmed in test certificates according to EN 10204 (3.1).

By marking of the raw materials and finished products, the identity of materials is guaranteed. Our fittings are TÜV-approved. Furthermore a certificate according to ISO 9001:2015 is available.

Approvals and certifications provided by DILO:

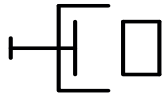
DILO products have been approved by international classification organisations such as:

- Certification according to ISO 9001:2015
- HPO approval as pressure equipment manufacturer
- Production control in accordance with 2014/68/EU regulations



SYMBOLS FOR VALVES AND FITTINGS

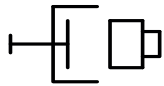
Soldering stub soldering-union



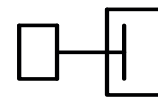
Blanking disk



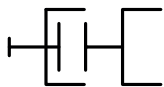
Screw-in stub-soldering union



Transition piece



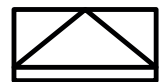
Gauge connection union



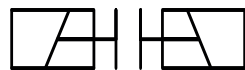
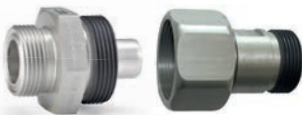
Ball valve



Coupled coupling



Coupling halves



Hose





General

- Specify the pipe lengths exactly and cut off rectangularly.
- Burr the pipe extremity and clean it metallically bright.
- Apply the soldering flux where soldering is to be carried out.
- When soldering, use the auxiliary means recommended by DILO and observe the instructions of the soldering materials supplier.
- Do not touch the soldered parts until the solder has solidified and cooled down (Do not quench the soldering area with water).
- Remove the soldering material by rinsing with water and by pickling is.
- Dry union before mounting.
- When mounting only use the connecting components not being damaged by impacts or by overflowed soldering material.
- It must be strictly observed that the tubing system is tension-free supported and that the tubing sections align to each other. Possible divergences can be straightened with the DILO straightening tool.
- Before final mounting, check that all DILO-groove and tongue parts are clear of impurities.
- In order to reduce the friction, the tube unions should be greased with suitable grease at the threads and contact surfaces of the clamping nut, especially when made of austenitic materials. Thus the torque is better converted into axial force and galling of the threads is avoided. When selecting the grease, observe the operating temperatures, the media, the corrosive degree and the materials.
- A fast and strong tightening of the clamping nut guarantees perfect tightness. (**Observe torque**)

The standard version of the screw-in stub of the DILO screw-in unions is equipped with O-ring sealing.

When mounting DILO screw-in unions we recommend using softmetal-sealings (e. g. copper plates opposite the housing or block) for sealing of screw-in stub DIN 3852-1 form B and DIN EN ISO 1179-4.

When all these instructions are observed the mounting will be simple and time-saving. Pipes which are too short or not precisely aligned will require extra work.

MOUNTING INSTRUCTIONS

Mounting illustration:



1. Rectangularly saw off the pipes



2. Deburring of the pipe extremities inside and outside



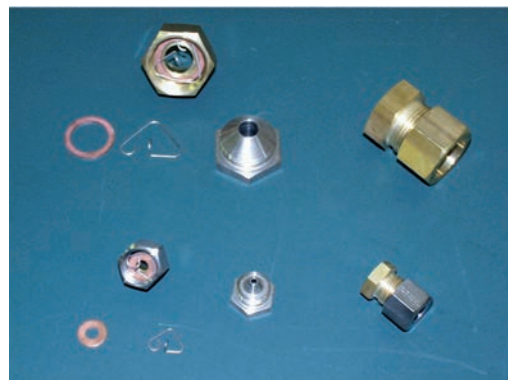
3. Clean to a bright metallic finish



4. Apply the soldering flux on the pipe



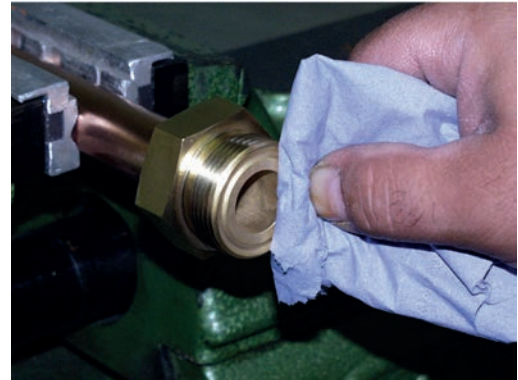
5. Apply the soldering flux at the part to be soldered



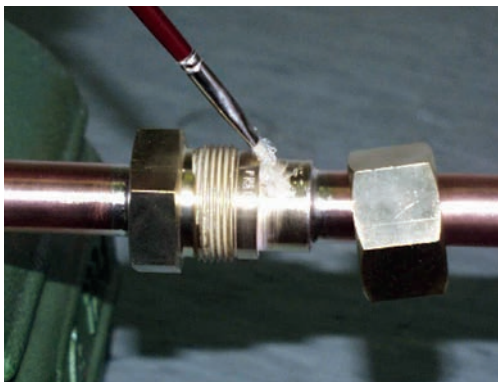
6. Use of auxiliary materials



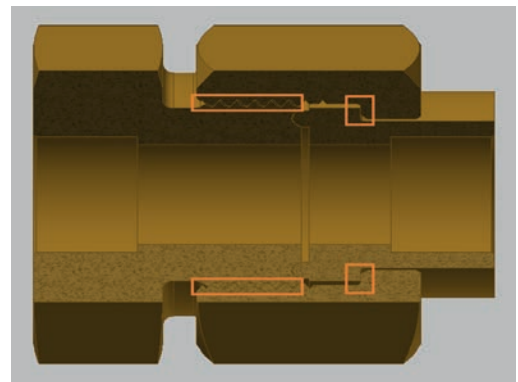
7. Observe the instructions of the soldering materials supplier



8. Before assembling clean the DILLO tongue and groove part



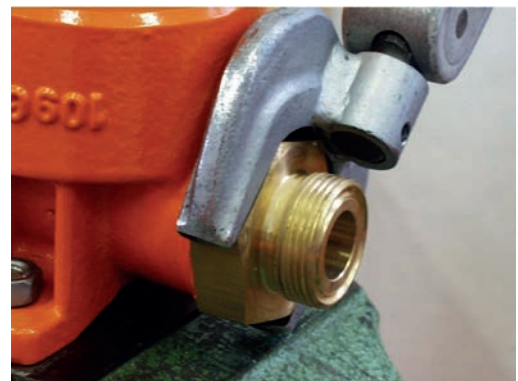
9. Lubricate with appropriate lubricants



10. Lubricating points at a DILLO tube union



11. Tighten fast and strongly the clamping nut by counteracting force according to torque table



12. A screw in plug is sealed into a housing or block with an O ring or copper seal ring.

MOUNTING EXAMPLE

Screw-in stub with O-ring sealing

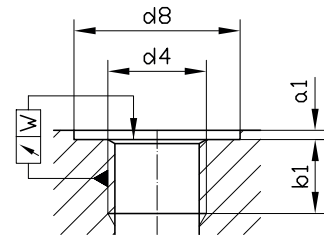
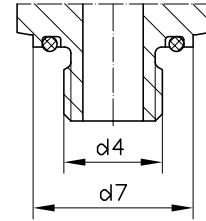
Torque see torque diagram

Screw-in thread

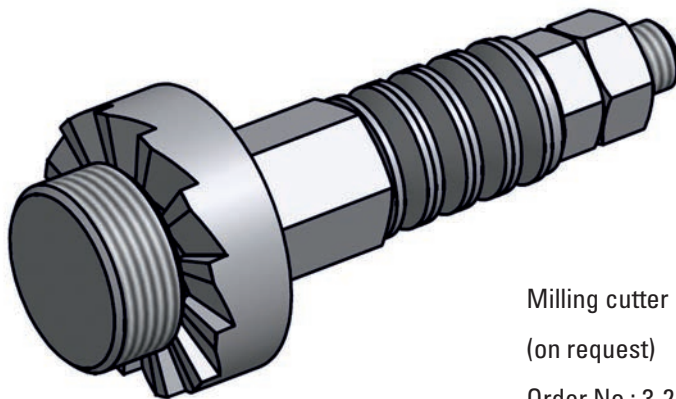
Screw-in hole see table

Make screw-in hole according to DIN 3852-1 form X and
DIN EN ISO 1179-1

Use milling cutter for tight seat



DN	d4	d7	d8	a1	b1	W
8	M16 x 1,5 G 3/8 A	26	27	1,5	14	0,1
12	G 1/2 A	36	37	2,5	16	0,1
20	M33 x 2 G 1 A	49	50	2,5	20	0,2
40	G 1 1/2 A	65	66	2,5	24	0,2



Milling cutter

(on request)

Order No.: 3-216-...

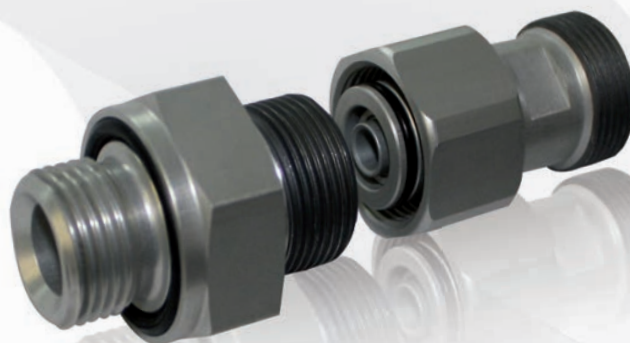


DILLO profile connection				
Tube diameters	Wrench size	Thread	Material	Torque Nm
AD10	22/24	M20x1,5	Stainless steel / Brass	40
AD15	27/32	M26x1,5	AL	60
			Stainless steel / Brass	70
AD22	41	M36x2	AL	80
			Stainless steel / Brass	120
AD42	60/65	M56x2	Stainless steel / Brass	150
AD54	75/80	M72x2	Stainless steel / Brass	150

Screw-in thread		
Screw-in thread	Material	Torque Nm
G1/8	Brass	15
G1/4	AL / Brass	15
G3/8	AL	40
	Stainless steel / Brass	40
G3/8 safety valve	Brass	25
G1/2	AL	60
	Stainless steel / Brass	70
G1/2 safety valve	Brass	35
G1A	AL	120
	Stainless steel / Brass	130
G1½	AL	120
	Brass	140
M16x1,5	AL / Stainless steel / Brass	40
M33x2	AL	120
	Stainless steel / Brass	130

Combination of coupling groove part with coupling tongue part			
Nominal diameters	Typ	Material	Torque Nm
DN6	3-408-R...	AL	15
DN8		AL	60
DN8		Stainless steel / Brass	70
DN12	3-888-R...	AL	15
DN20		AL	110
DN20		Stainless steel / Brass	140
DN40		Stainless steel / Brass	150

Covering caps			
Nominal diameters	Wrench size	Material	Torque Nm
DN8	24	AL	20
DN20	30	AL	40
DN40	50	AL	40



The coupling allows to establish a connection by simply fitting both coupling parts into each other. Before load relieving of the coupling seats the pressure- and vacuum tight coupling is sealed inside with an O-ring during the coupling process. The coupling is forced to be open in coupled position. If both coupling sides are separated again the sealing seats shut off automatically.

All couplings are temperature-resistant from -40 °C to +80 °C.

The suitable connecting parts for DILO couplings must be ordered separately.

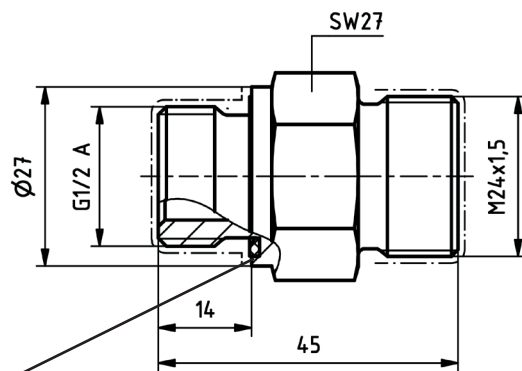
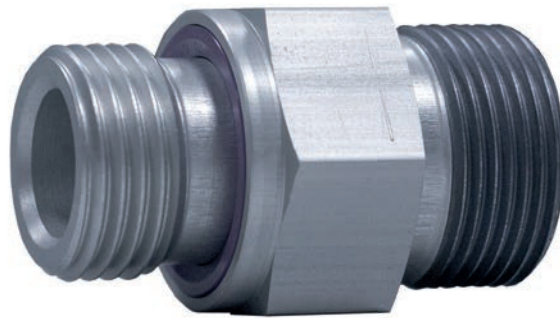
DILO couplings DN6

■ 3-408-R105	Coupling groove part / PN10 DN6.....	18
■ 3-408-R006	Flange coupling PN10 DN6.....	19
■ 3-408-R009	Gauge connecting piece.....	20
■ 3-408-R007	Covering cap DN6.....	20
■ 3-408-R101	Coupling tongue part PN10 DN6.....	21
■ 6-1161-R013	Coupling tongue part PN10 DN6 with connecting coupling for measuring device.....	22
■ 3-408-R021/R022	Soldering stub connection DN6.....	23
■ 3-408-R020	Gauge connecting coupling DN6.....	23
■ 3-419-R004	Transition piece to DN8 connections.....	24
■ 3-419-R003	Adapter piece.....	25

PN10 DN6
COUPLING GROOVE PART

Order No.: 3-408-R105 T

Material: AL



Spare O-ring:
Order No. 05-1917-R003

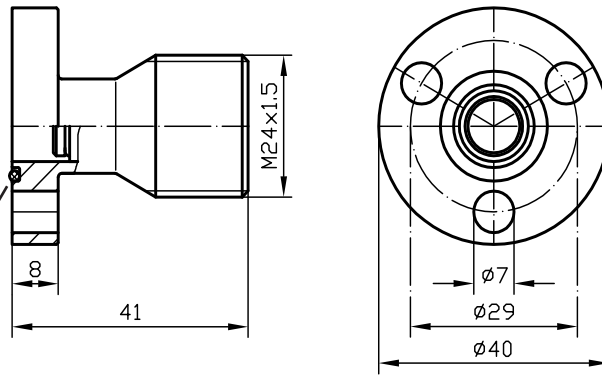
Suitable connecting parts

3-408-R101
3-408-R007
3-408-R020
3-408-R021/22

PN10 DN6
FLANGE COUPLING



Order No.: 3-408-R006 T
Material: AL



Spare O-ring
Order No. 05-0057-R084

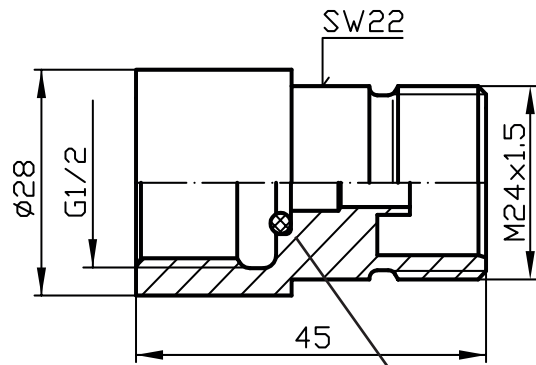
Suitable connecting parts

3-408-R101
3-408-R007
3-408-R020
3-408-R021/22

Other flanges are available on request.

PN10 DN6 GAUGE CONNECTING PIECE

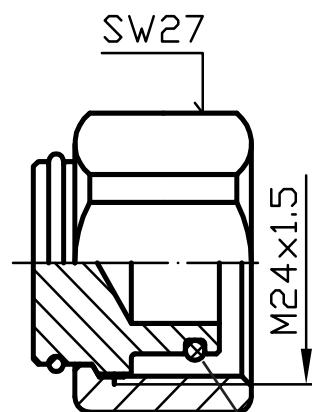
Order No.: 3-408-R009 T
Material: AL



Spare O-ring
Order No. 05-0057-R086

PN10 DN6 COVERING CAP

Order No.: 3-408-R007 T
Material: AL

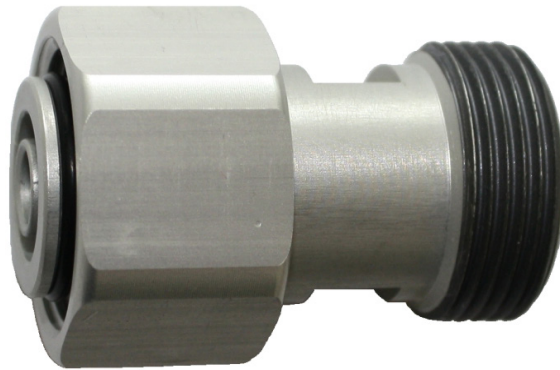


Spare O-ring
Order No. 05-0057-R084

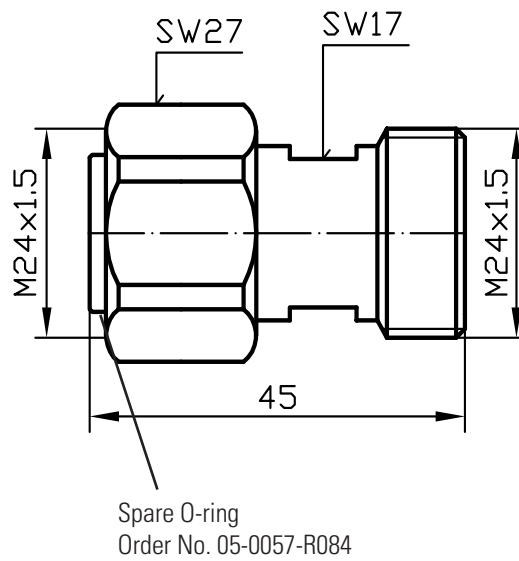
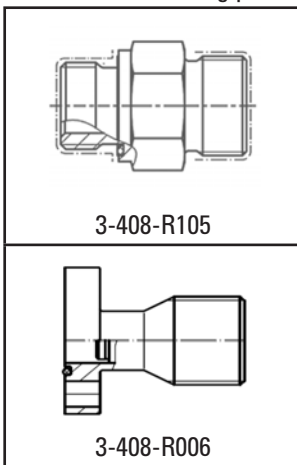
PN10 DN6
COUPLING TONGUE PART



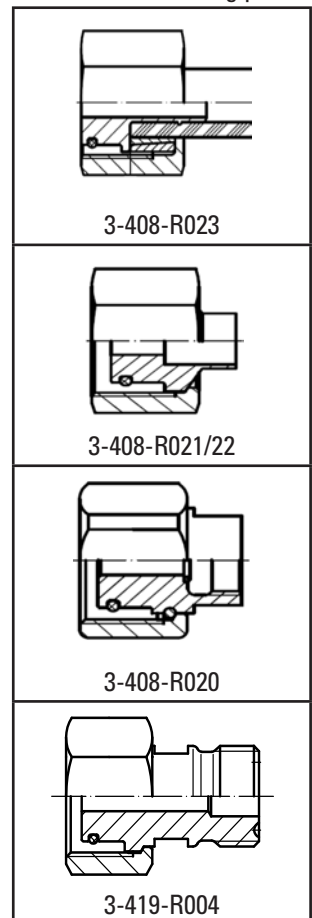
Order No.: 3-408-R101 T
Material: AL



Suitable connecting parts



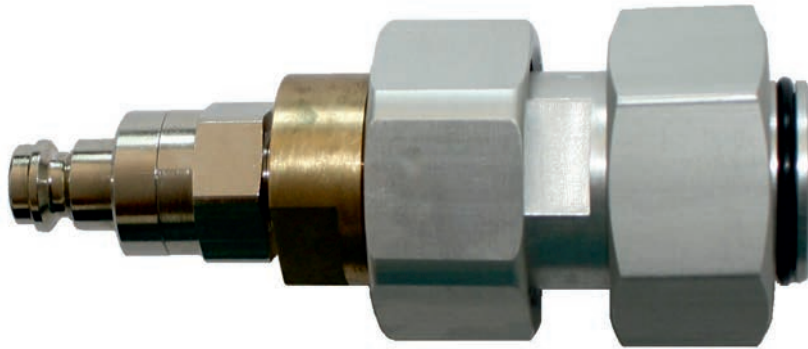
Suitable connecting parts



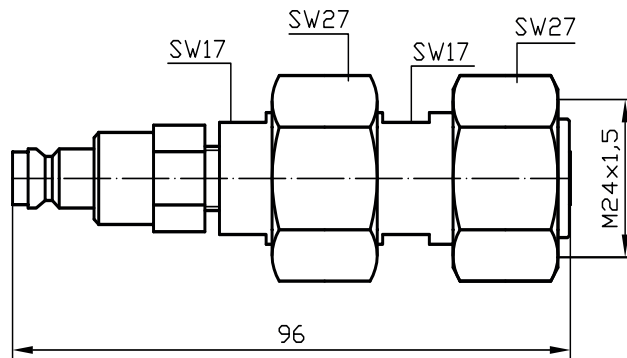
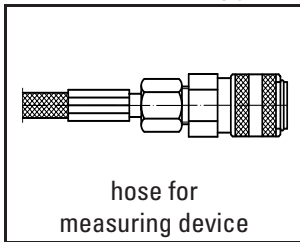
PN10 DN6
COUPLING TONGUE PART
with connecting coupling for measuring device

Order No.: 6-1161-R013

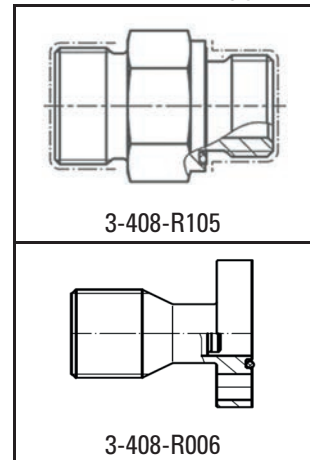
Material: AL / Brass



Suitable connecting parts



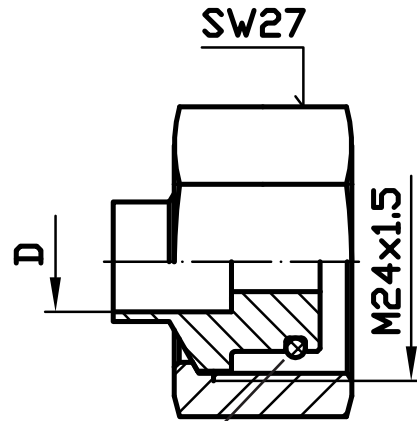
Suitable connecting parts



PN10 DN6
SOLDERING STUB CONNECTION



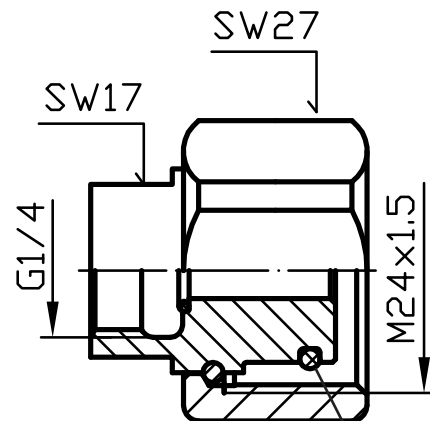
Order No.: 3-408-R021 C D = 10 mm
 3-408-R022 C D = 6 mm
 Material: Stainless steel



Spare O-ring
 Order No. 05-0057-R084

PN10 DN6
GAUGE CONNECTING COUPLING

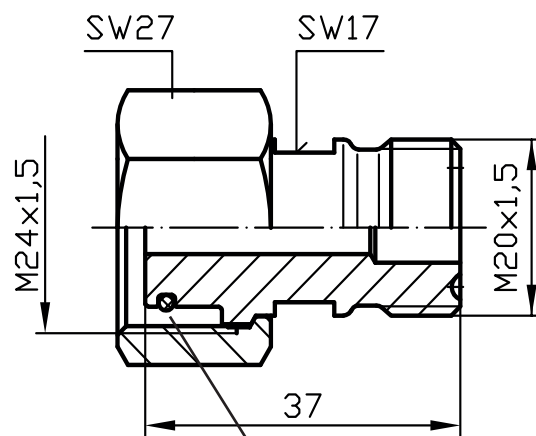
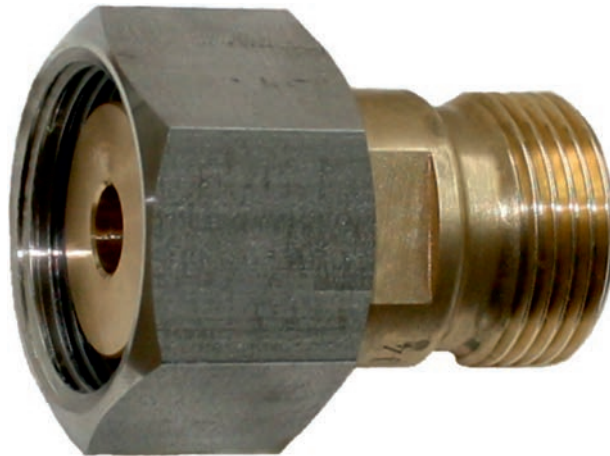
Order No.: 3-408-R020 T
 Material: AL



Spare O-ring
 Order No. 05-0057-R084

PN10 DN6
TRANSITION PIECE TO DN8 CONNECTIONS

Order No.: 3-419-R004
Material: Stainless steel / Brass

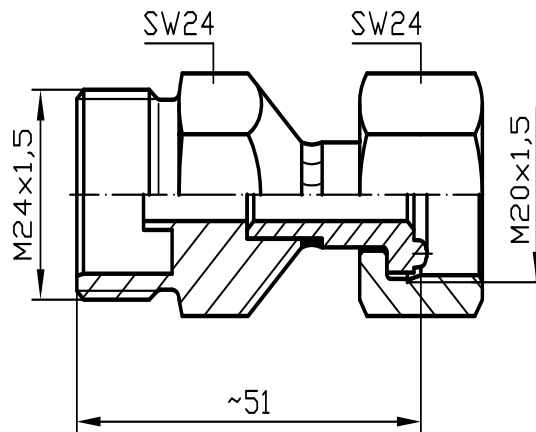


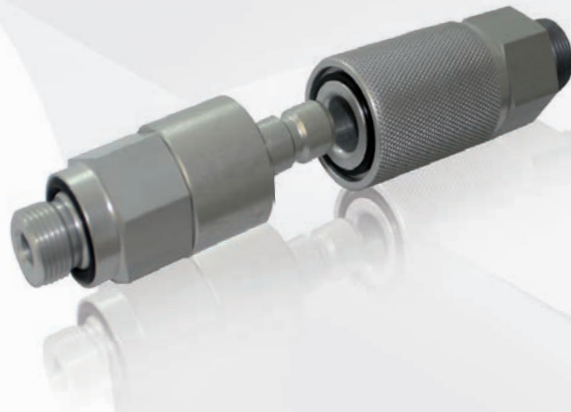
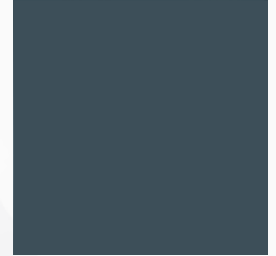
Spare O-ring
Order No. 05-0057-R084

PN10 DN6
ADAPTER PIECE



Order No.: 3-419-R003
Material: Stainless steel / Brass





The plug connection allows to establish a connection by simply fitting both coupling parts into each other. Before load relieving of the coupling seats the pressure- and vacuum tight coupling is sealed inside with an O-ring during the coupling process. The coupling is forced to be open in coupled position. If both coupling sides are separated again the sealing seats shut off automatically.

All couplings are temperature-resistant from -40 °C to +80 °C.

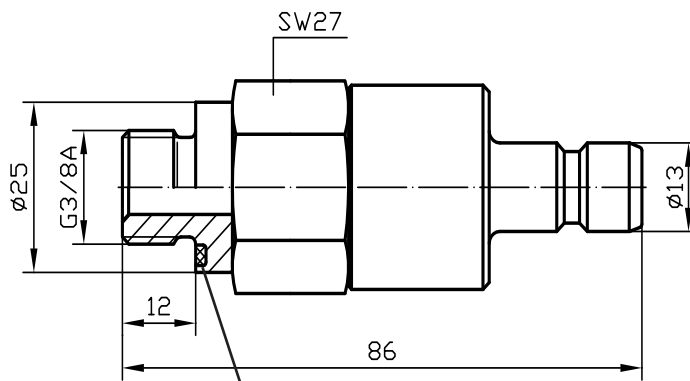
The suitable connecting parts for DILO couplings must be ordered separately.

DILO couplings DN7

■ 3-308-R003	Plug connection groove part PN30 DN7.....	28
■ 3-308-R016	Covering cap for plug connection groove part PN30 DN7.....	29
■ 3-308-R002	Plug connection tongue part PN30 DN7.....	30
■ 6-11161-R015	Plug connection tongue part PN30 DN7 with connecting coupling for measuring device.....	31
■ 3-308-R006	Covering cap for plug connection tongue part PN30 DN7.....	32

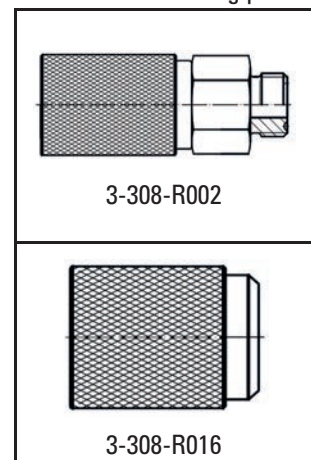
PN30 DN7
PLUG CONNECTION GROOVE PART

Order No.: 3-308-R003 T
Material: AL



Spare O-ring
Order No. 05-0057-R016

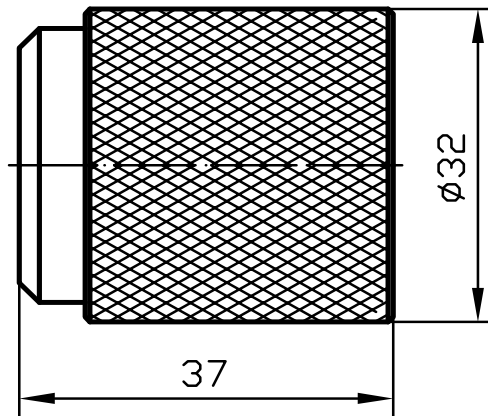
Suitable connecting parts



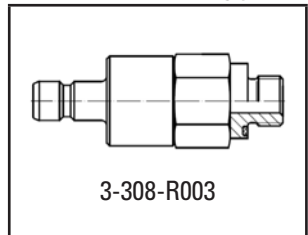
PN30 DN7
COVERING CAP FOR PLUG CONNECTION
GROOVE PART



Order No.: 3-308-R016 T
Material: AL

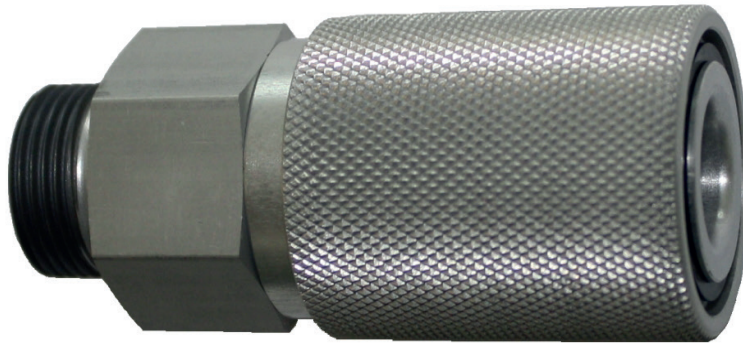


Suitable connecting parts

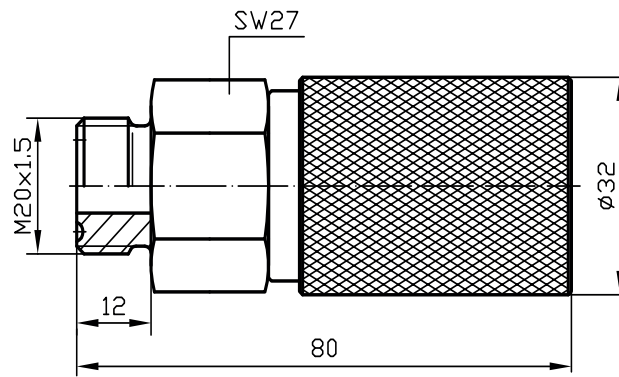
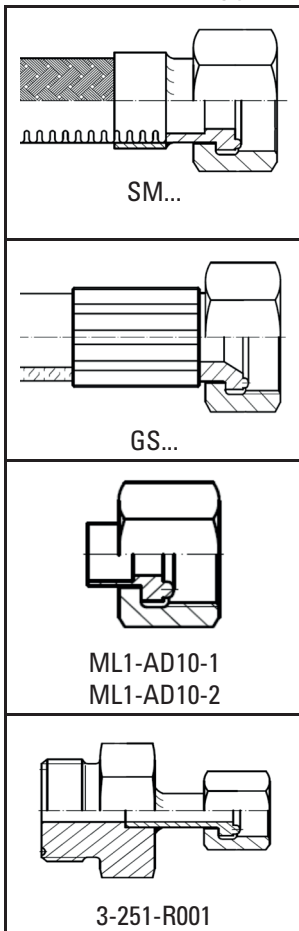


PN30 DN7
 PLUG CONNECTION TONGUE PART

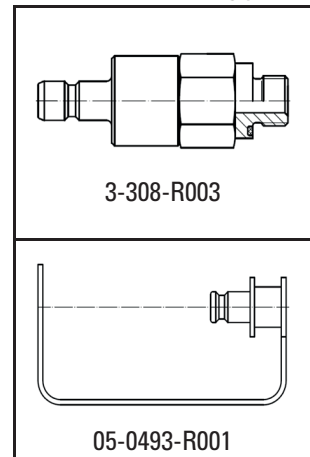
Order No.: 3-308-R002 T
 Material: AL



Suitable connecting parts



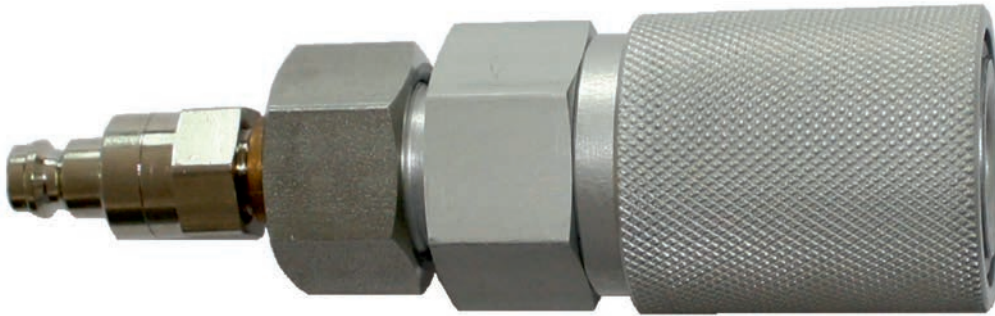
Suitable connecting parts



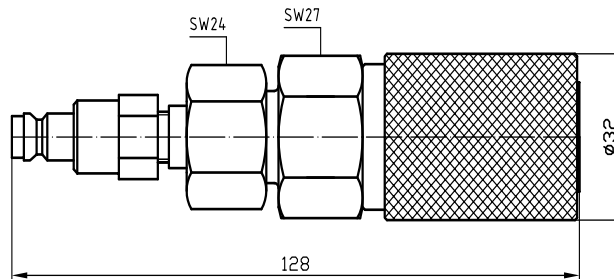
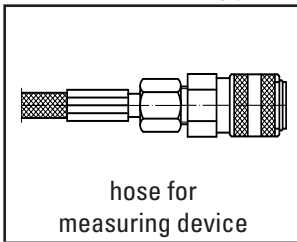
■ PN30 DN7
 PLUG CONNECTION TONGUE PART
 with connecting coupling for measuring device



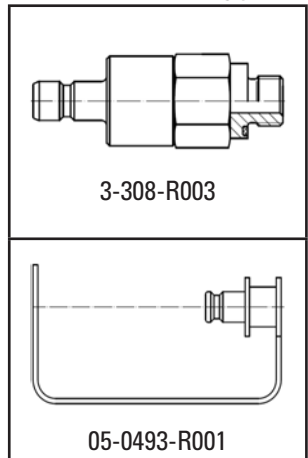
Order No.: 6-1161-R015
 Material AL



Suitable connecting parts



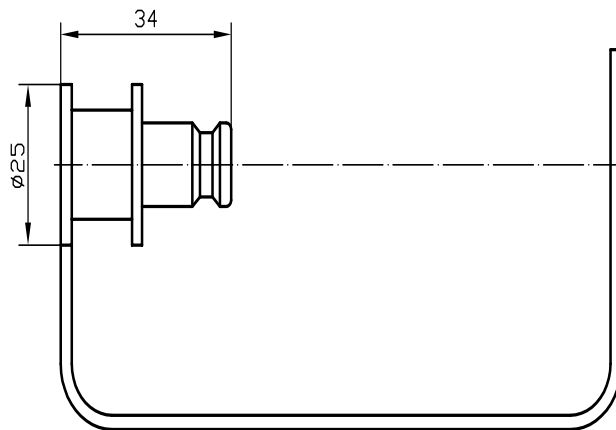
Suitable connecting parts



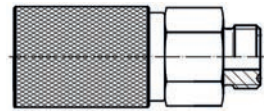
PN30 DN7
COVERING CAP FOR PLUG CONNECTION
TONGUE PART

Order No.: 05-0493-R001

Material: PVC



Suitable connecting parts



3-308-R002



The coupling allows to establish a connection by simply fitting both coupling parts into each other. Before load relieving of the coupling seats the pressure- and vacuum tight coupling is sealed inside with an O-ring during the coupling process. The coupling is forced to be open in coupled position. If both coupling sides are separated again the sealing seats shut off automatically.

All couplings are temperature-resistant from -40 °C to +80 °C.

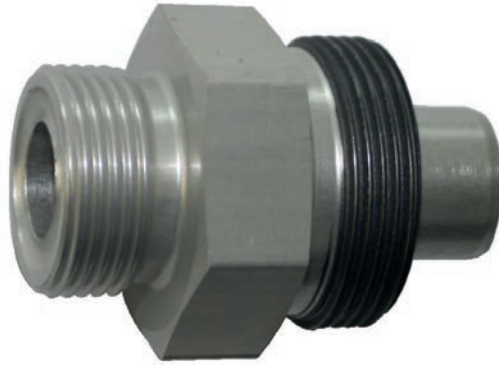
In special version these couplings are also available for a temperature range of -60 °C to +80 °C.

The suitable connecting parts for DILO couplings must be ordered separately.

DILO couplings DN8

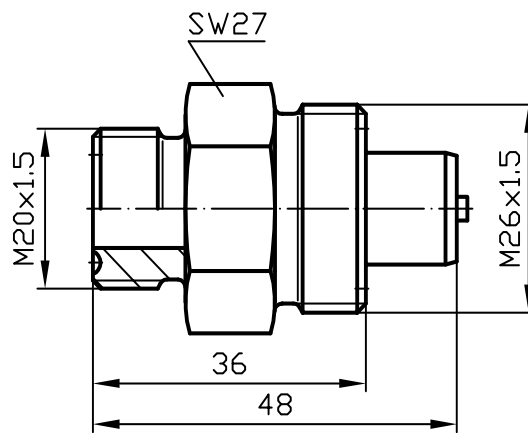
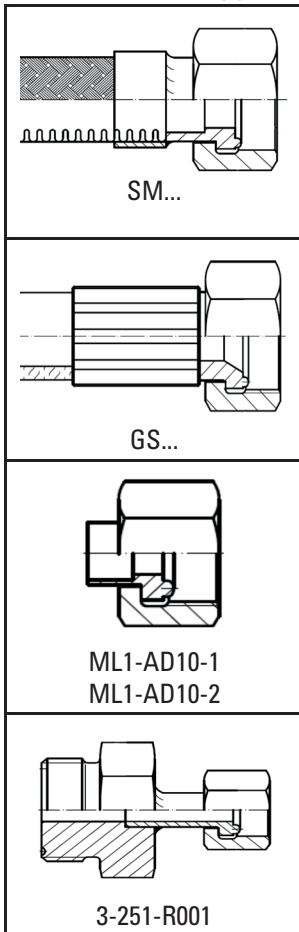
■ VK/A-02/8	DILO couplings DN8 / PN64 DN8.....	34
■ VK/B(G)-03/8	Coupling groove part PN64 DN8 with O-ring.....	35
■ SK-272-R001	Flange coupling PN64 DN8.....	36
■ SK-272-R003	Flange coupling PN64 DN8.....	37
■ 3-778-R001	Flange coupling PN64 DN8 with 2-hole flange.....	38
■ VK/KN-04/8	Covering cap für coupling groove part PN64 DN8.....	39
■ 3VK/F-02/8	Coupling tongue part PN64 DN8.....	40
■ 6-1161-R011	Coupling tongue part PN64 DN8 with connecting coupling for measuring device.....	41
■ SK-372-R020/ R021	Gauge connecting coupling PN64 DN8.....	42

PN64 DN8
COUPLING GROOVE PART

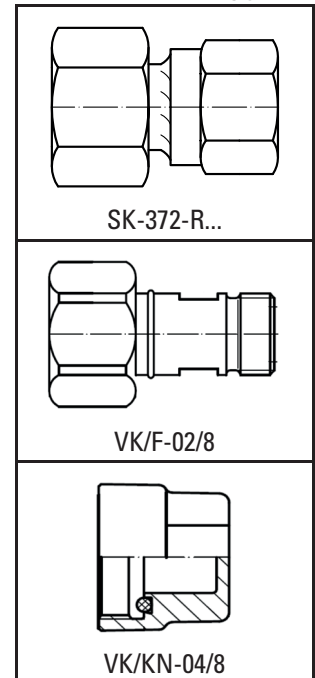


Order No.	Material
VK/A-02/8 T	AL
VK/A-02/8 E	Stainless steel
VK/A-02/8 P	Brass

Suitable connecting parts



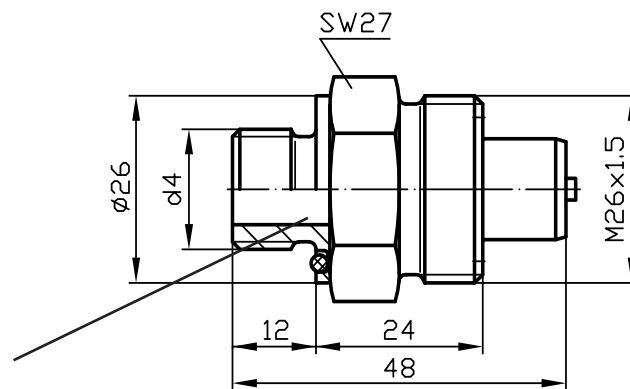
Suitable connecting parts



PN64 DN8
COUPLING GROOVE PART WITH O-RING

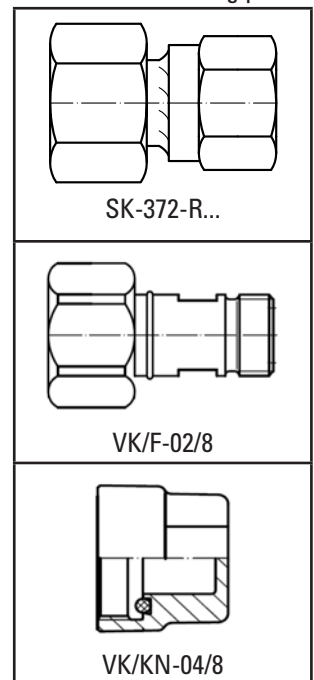


d4	Order No.	Material
M16 x 1,5	VK/B-03/8 T	AL
M16 x 1,5	VK/B-03/8 E	Stainless steel
M16 x 1,5	VK/B-03/8 P	Brass
G 3/8 A	VK/BG-03/8 T	AL
G 3/8 A	VK/BG-03/8 E	Stainless steel
G 3/8 A	VK/BG-03/8 P	Brass



Spare O-ring
Bestell-Nr. 05-0057-R016

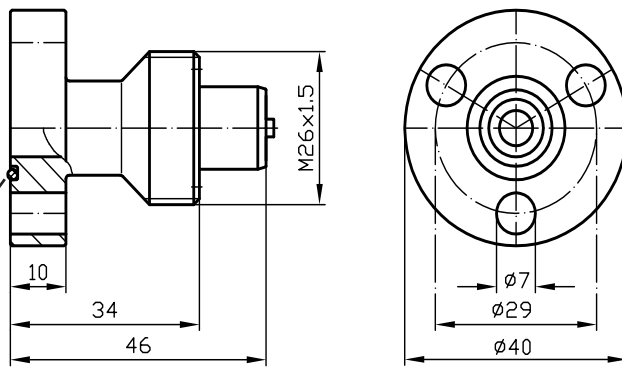
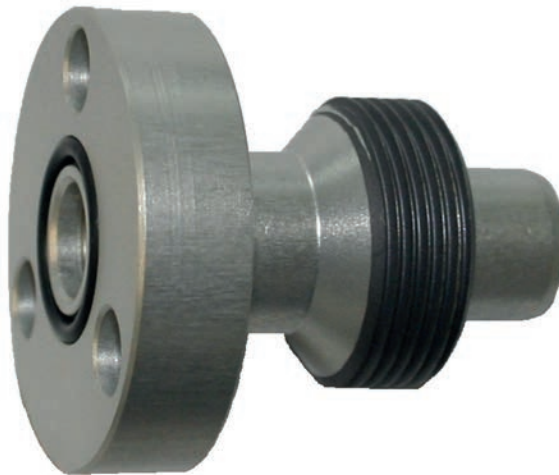
Suitable connecting parts



In special version the screw-in thread can also be supplied with sealing edge according to DIN 3852-1 and DIN EN ISO 1179.

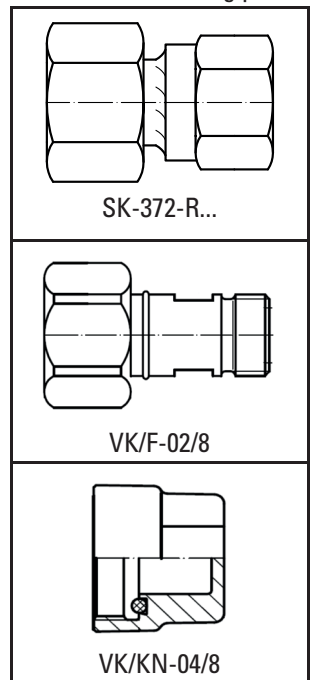
PN64 DN8
FLANGE COUPLING

Order No.: SK-272-R001 T
 Material: AL



Spare O-ring
 Order No. 05-0057-R084

Suitable connecting parts

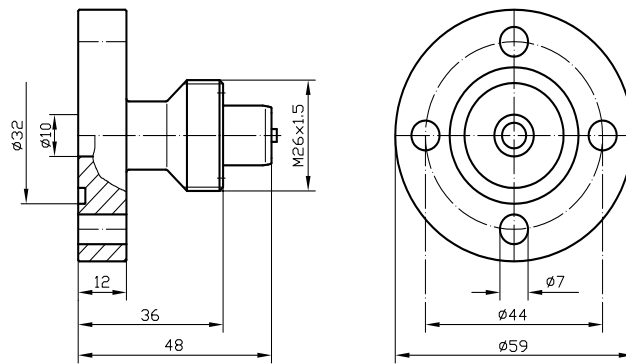
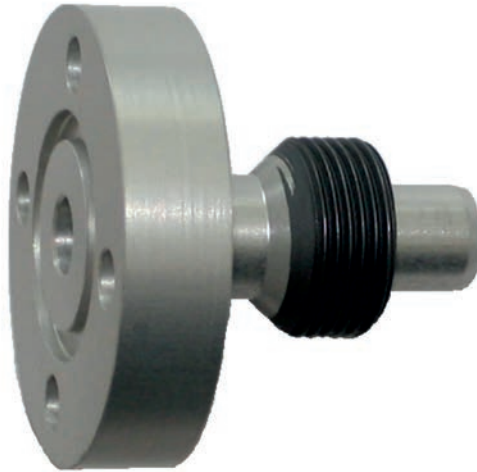


Other flanges are available on request.

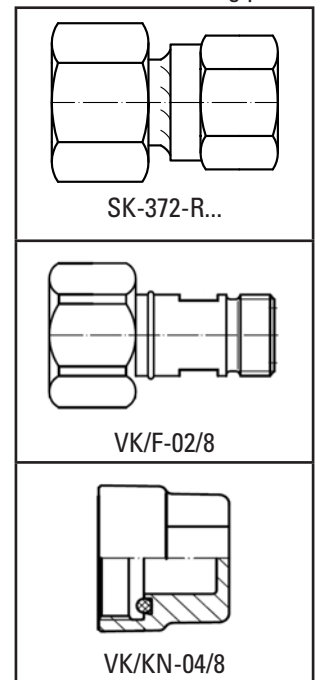
PN64 DN8
FLANGE COUPLING



Order No.: SK-272-R003 T
Material: AL



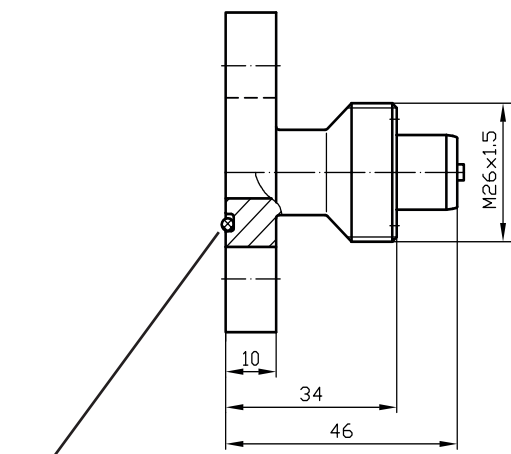
Suitable connecting parts



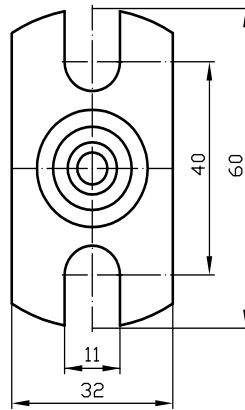
Other flanges are available on request.

PN64 DN8
FLANGE COUPLING WITH 2-HOLE FLANGE

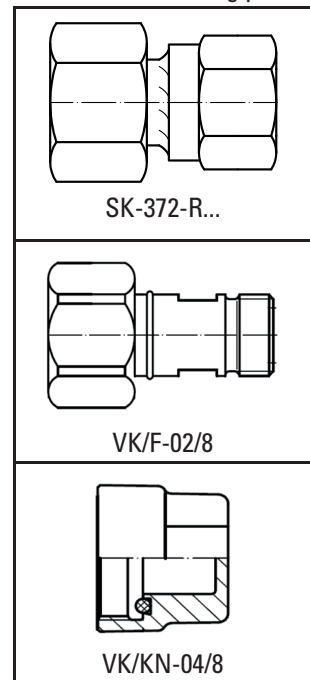
Order No.: 3-778-R001 T
 Material: AL



Spare O-ring
 Order No. 05-0057-R125



Suitable connecting parts

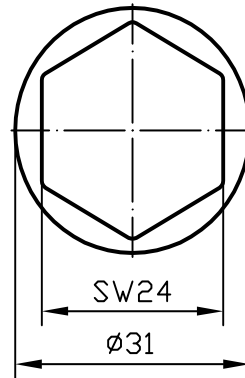
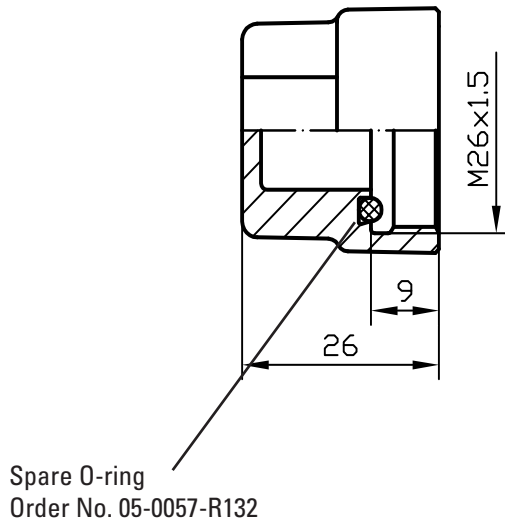


Other flanges are available on request.

PN64 DN8
COVERING CAP FOR COUPLING GROOVE PART



Order No.	Material
VK/KN-04/8 T	AL
VK/KN-04/8 E	Stainless steel



Suitable connecting parts

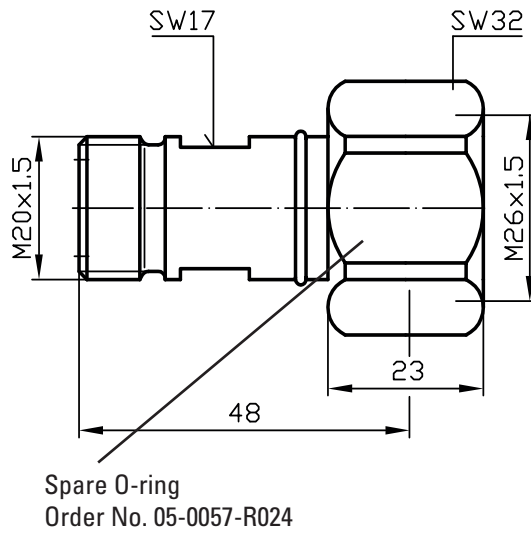
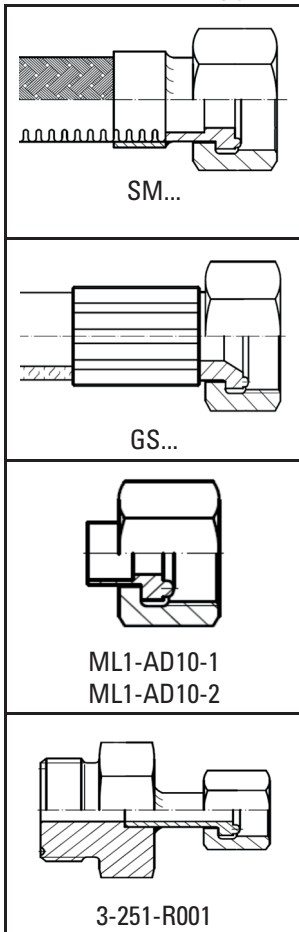
<p>3-778-R001</p>
<p>SK-272-R001 / R003</p>
<p>VK/A-02/8</p>
<p>VK/B-03/8 VK/BG-03/8</p>

PN64 DN8
COUPLING TONGUE PART

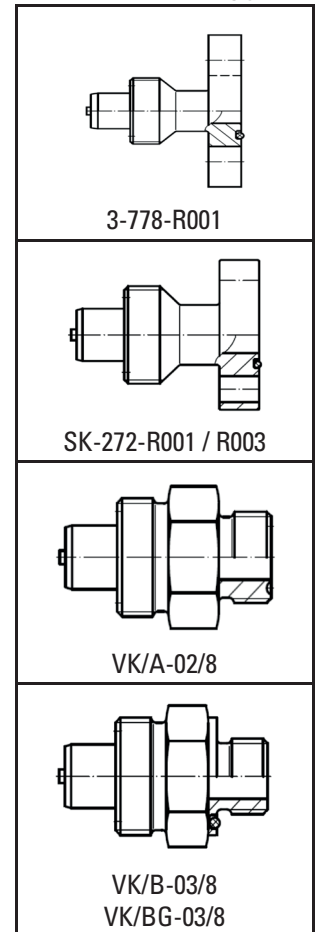


Order No.	Material
VK/F-02/8 T	AL
VK/F-02/8 E	Stainless steel
VK/F-02/8 P	Brass

Suitable connecting parts



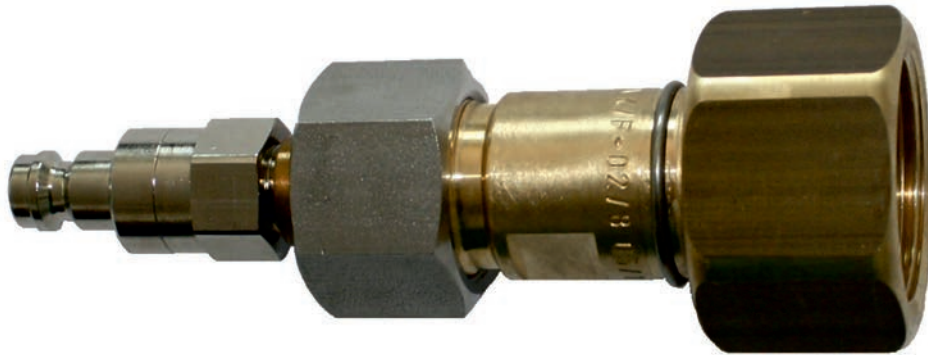
Suitable connecting parts



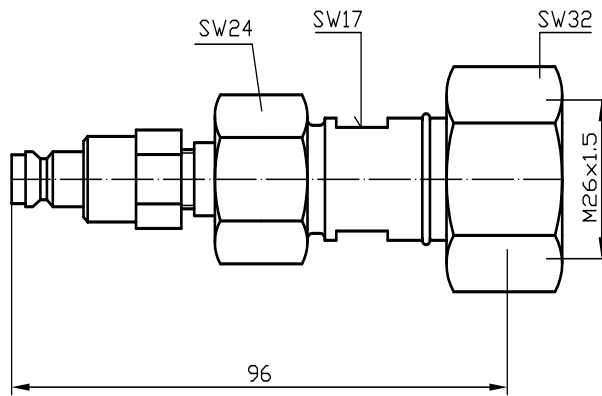
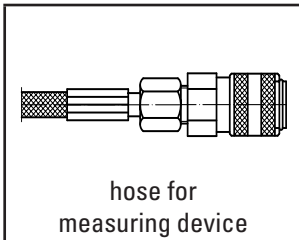
PN35 DN8
 COUPLING TONGUE PART
 with connecting coupling for measuring device



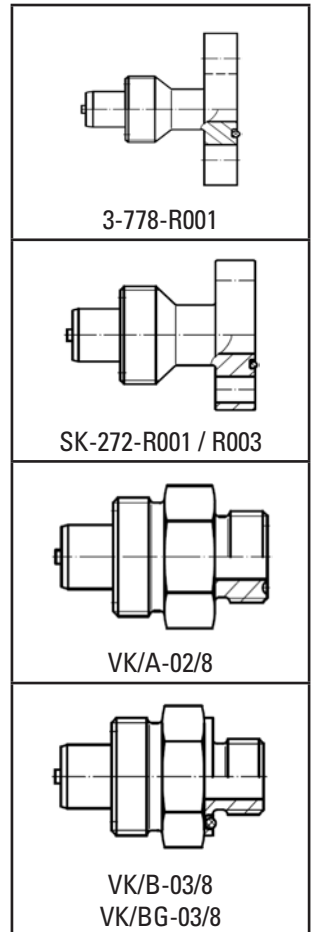
Order No.: 6-1161-R011
 Material: Brass



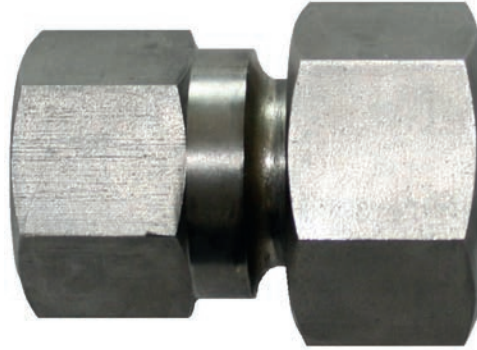
Suitable connecting parts



Suitable connecting parts

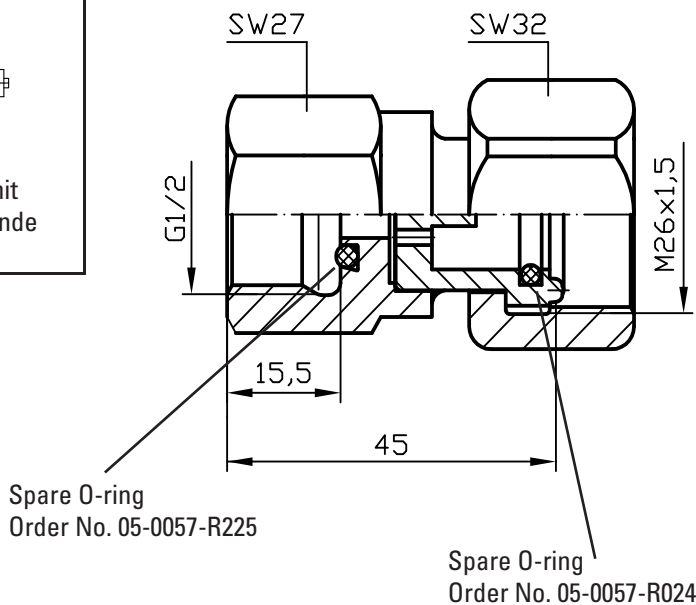
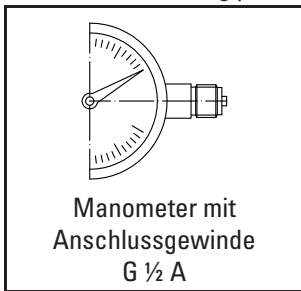


PN64 DN8 GAUGE CONNECTING COUPLING

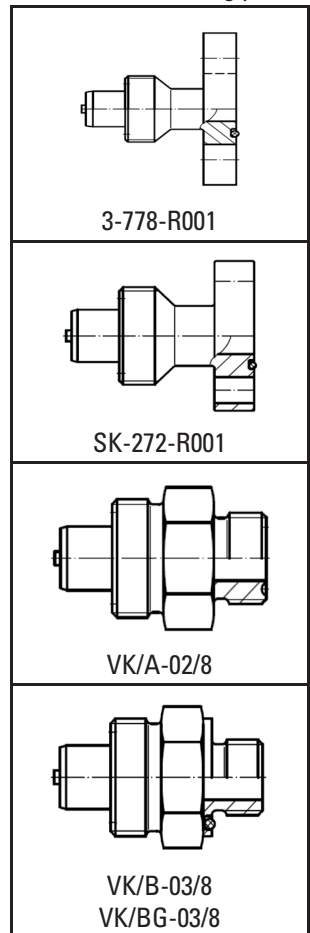


Order No.	Material
SK-372-R020 P	Brass
SK-372-R021 C	Stainless steel

Suitable connecting parts

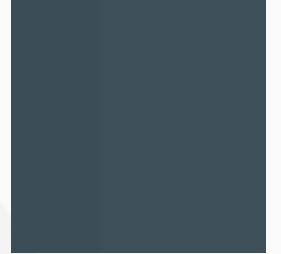


Suitable connecting parts



Description

The gauge connecting coupling serves as connecting piece to a coupling groove part DN8. When coupling, a pin in the gauge connecting coupling opens the flow of the opposite coupling groove part (forced opening). This allows to read the present operating pressure on the screwed-in gauge. When disconnecting, the conical nipple of the groove part is closed by spring load (pressure and vacuum tight). If the gauge connecting coupling is not connected the gauge shows „zero pressure“. The connecting coupling allows to install the gauge in any required position (rotatable 360°)



The coupling allows to establish a connection by simply fitting both coupling parts into each other. Before load relieving of the coupling seats the pressure- and vacuum tight coupling is sealed inside with an O-ring during the coupling process. The coupling is forced to be open in coupled position. If both coupling sides are separated again the sealing seats shut off automatically.

All couplings are temperature-resistant from -40 °C to +80 °C.

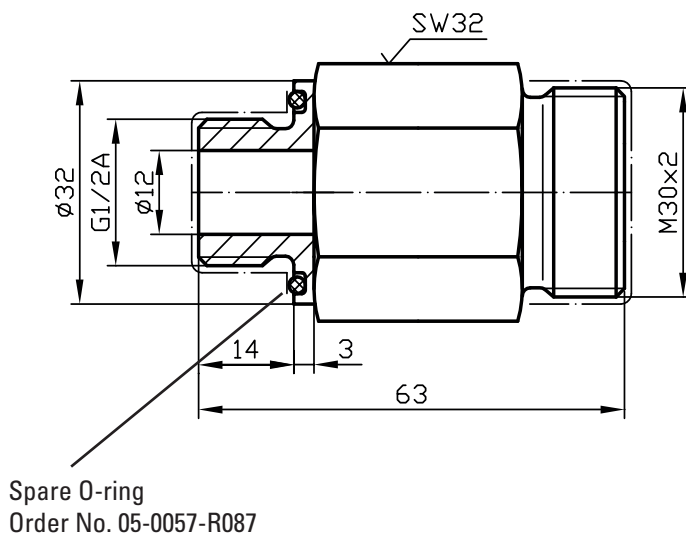
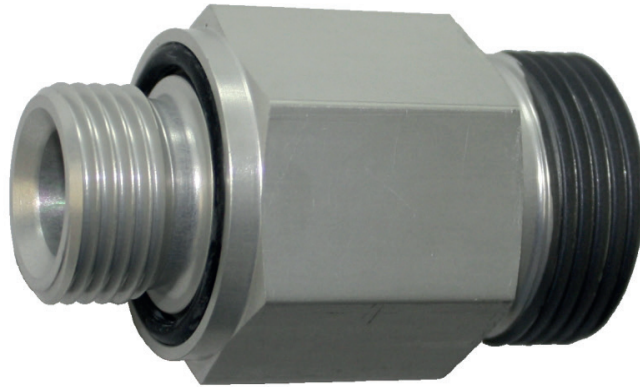
The suitable connecting parts for DILO couplings must be ordered separately.

DILO couplings DN12

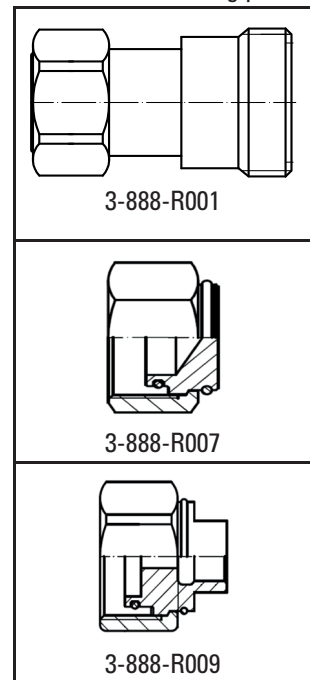
■ 3-888-R005	Coupling groove part / BG PN10 DN12.....	44
■ 3-888-R007	Covering cap.....	45
■ 3-888-R001	Coupling tongue part PN10 DN12.....	46
■ 6-1161-R014	Coupling tongue part PN10 DN12 with connecting coupling for measuring device.....	47
■ 3-888-R031	Gauge connecting coupling PN10 DN12.....	48
■ 3-888-R009	Gauge connecting coupling PN10 DN12.....	49

PN10 DN12
COUPLING GROOVE PART

Order No.: 3-888-R005 T
Material: AL



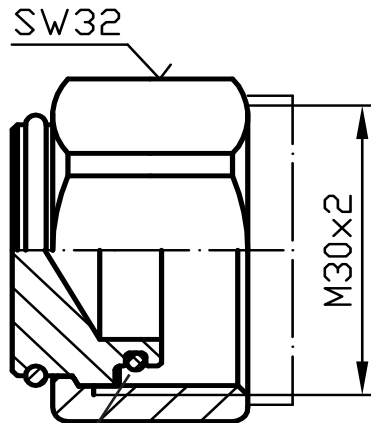
Suitable connecting parts



PN10 DN12
COVERING CAP

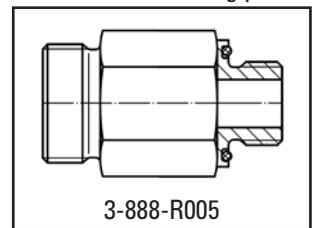


Order No.: 3-888-R007 T
Material: AL



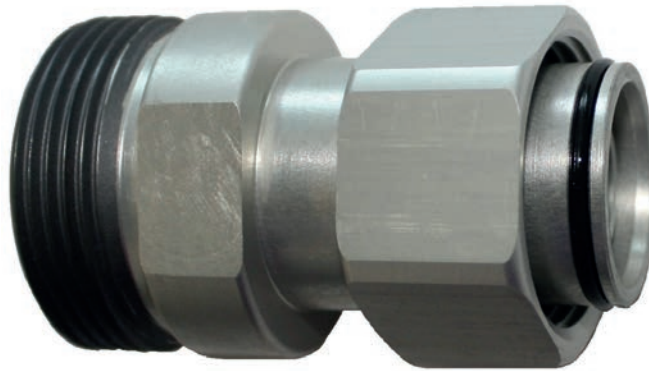
Spare O-ring
Order No. 05-0057-R096

Suitable connecting parts

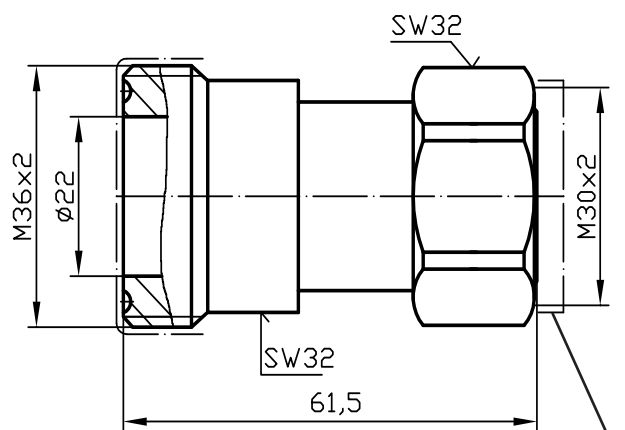
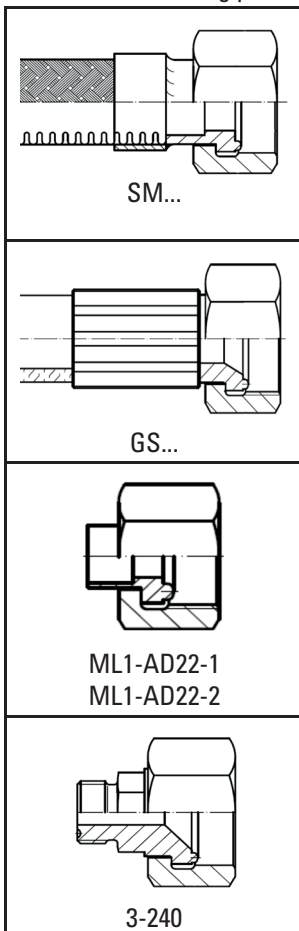


PN10 DN12
COUPLING TONGUE PART

Order No.: 3-888-R001 T
Material: AL

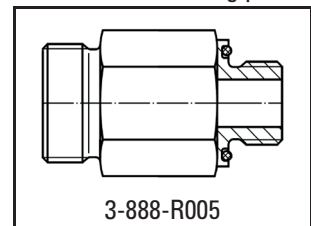


Suitable connecting parts



Spare O-ring
Order No. 1-05-0057-R096

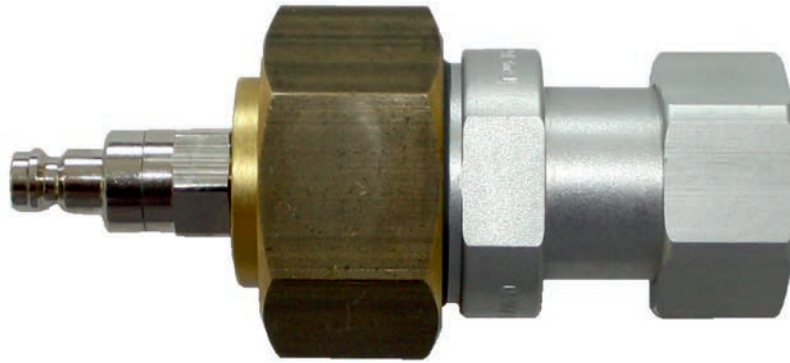
Suitable connecting parts



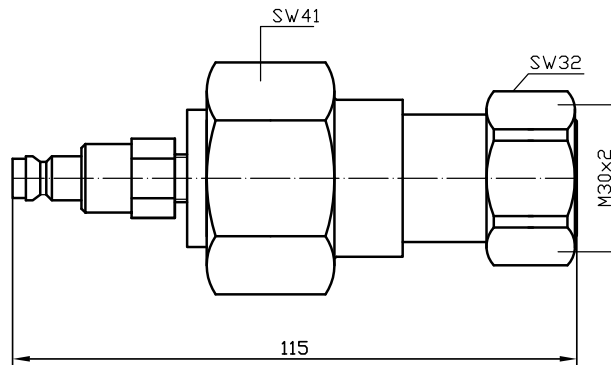
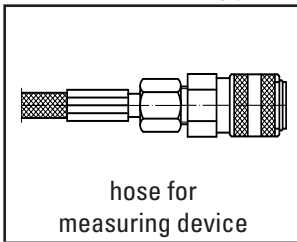
PN10 DN12
COUPLING TONGUE PART
with connecting coupling for measuring device



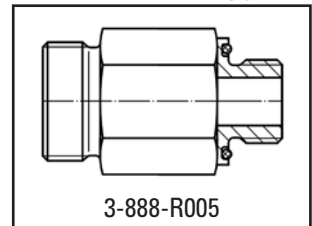
Order No.: 6-1161-R014
Material: AL



Suitable connecting parts

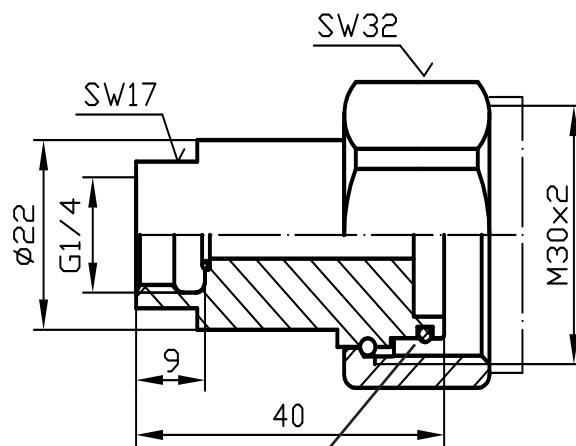
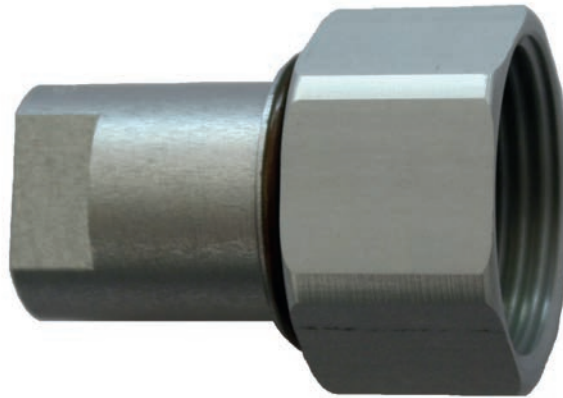


Suitable connecting parts

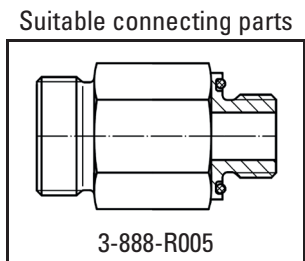


PN10 DN12
GAUGE CONNECTING COUPLING

Order No.: 3-888-R031 T
Material: AL



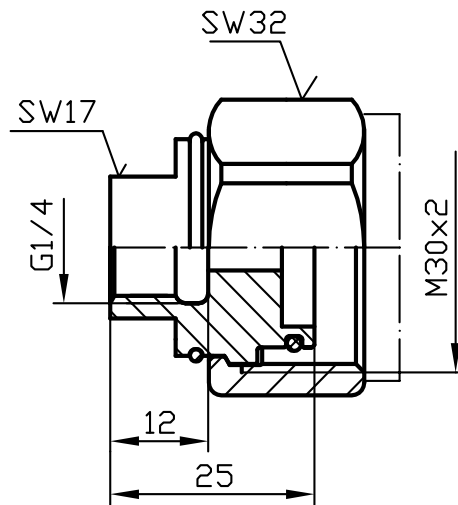
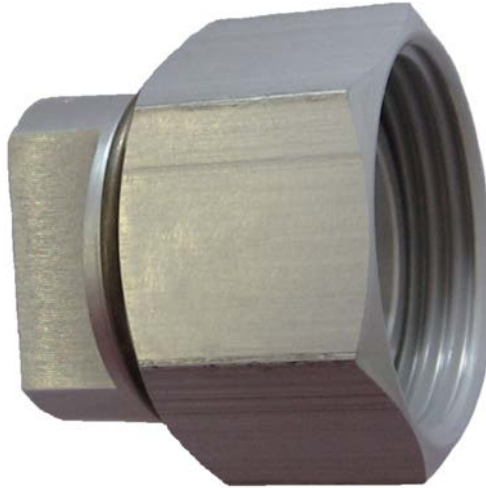
Spare O-ring
Order No. 05-0057-R096



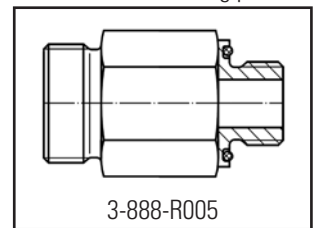
PN10 DN12
GAUGE CONNECTING COUPLING



Order No.: 3-888-R009 T
Material: AL



Suitable connecting parts





The plug-in connection allows to establish a connection by simply fitting both coupling parts into each other. Before load relieving of the coupling seats the pressure- and vacuum tight coupling is sealed inside with an O-ring during the coupling process. The coupling is forced to be open in coupled position. If both coupling sides are separated again the sealing seats shut off automatically.

All couplings are temperature-resistant from -40 °C to +80 °C.

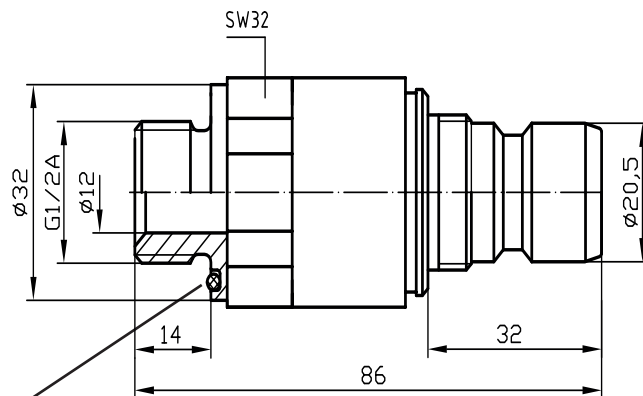
The suitable connecting parts for DILO couplings must be ordered separately.

DILO Plug-in couplings DN12

▪ 3-1095-R005	Plug-in connection groove part PN8 DN12.....	52
▪ 3-1095-R016	Covering cap for plug-in connection groove part PN8 DN12.....	53
▪ 3-1095-R001	Plug-in connection tongue part PN8 DN12...	54
▪ 3-1095-R002	Plug-in connection tongue part PN8 DN12 with connecting coupling for measuring device.....	55
▪ 3-1095-R017	Density gauge connection PN8 DN12.....	56

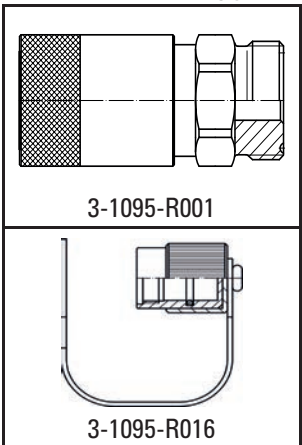
PN8 DN12 PLUG-IN CONNECTION GROOVE PART

Order No.: 3-1095-R005 T
Material: AL



Spare O-ring
Order No. 05-0057-R087

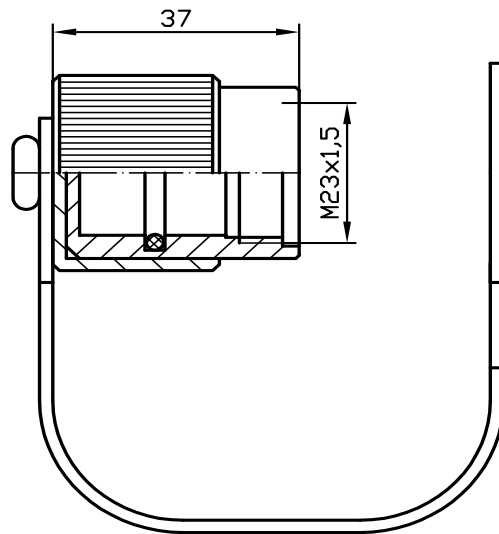
Suitable connecting parts



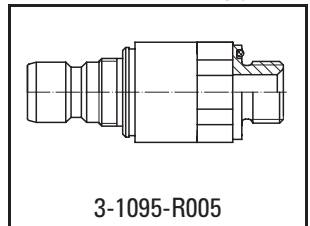
PN8 DN12
COVERING CAP FOR PLUG-IN CONNECTION
GROOVE PART



Order No.: 3-1095-R016 T
Material: AL

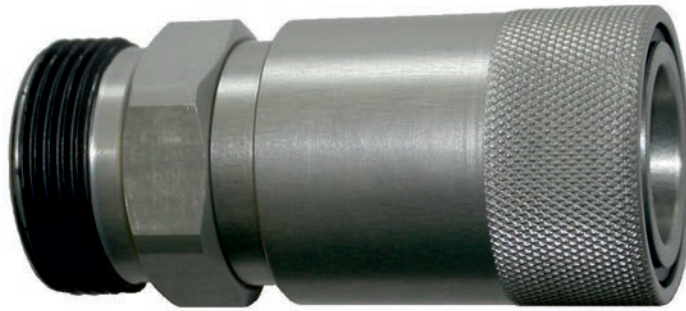


Suitable connecting parts

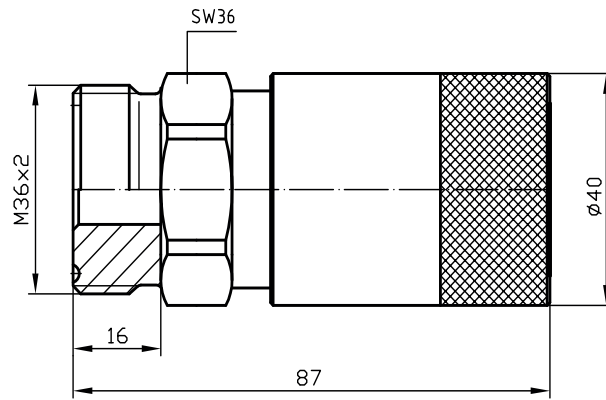
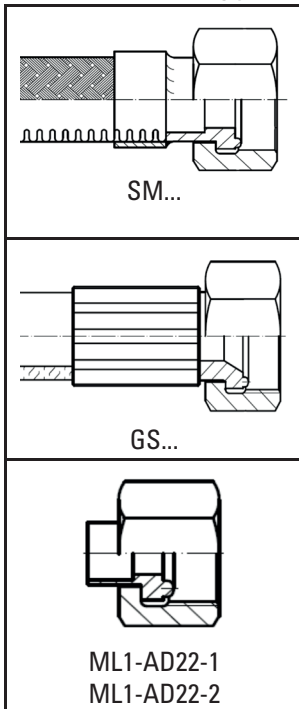


PN8 DN12 PLUG-IN CONNECTION TONGUE PART

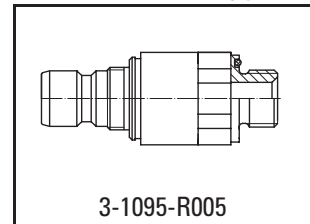
Order No.: 3-1095-R001 T
Material: AL



Suitable connecting parts



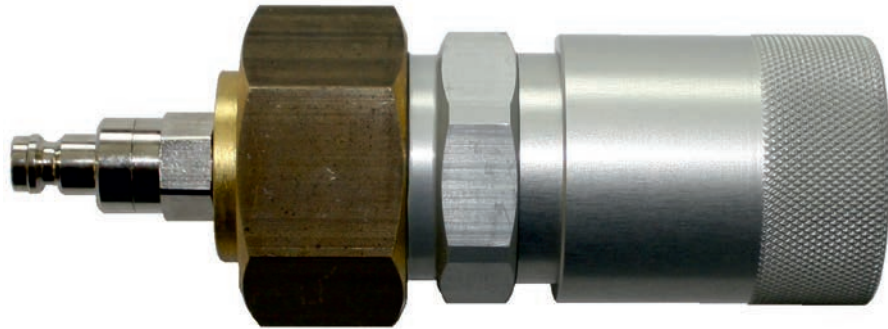
Suitable connecting parts



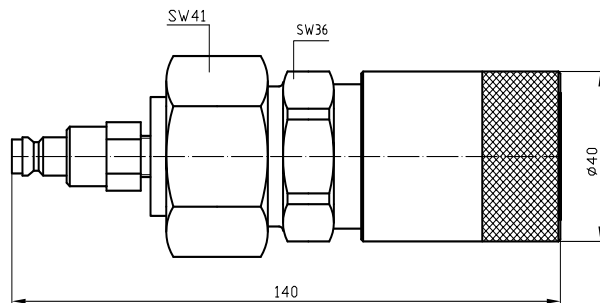
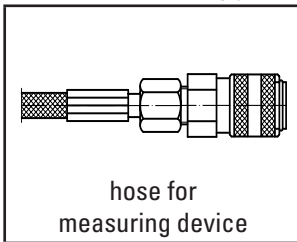
PN8 DN12
PLUG-IN CONNECTION TONGUE PART
with connecting coupling for measuring device



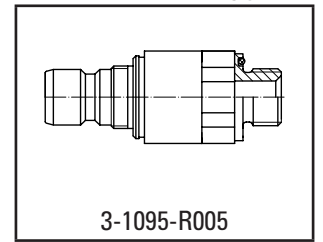
Order No.: 3-1095-R002 T
Material: AL



Suitable connecting parts



Suitable connecting parts

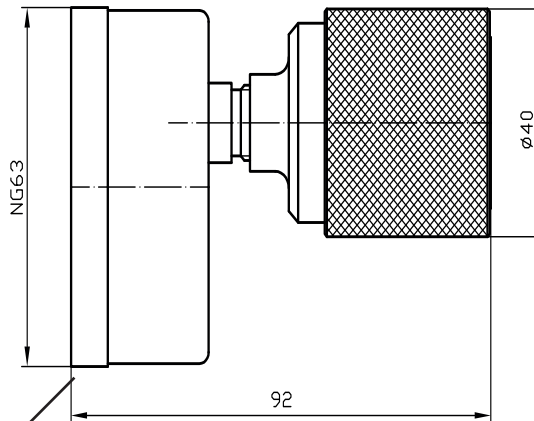
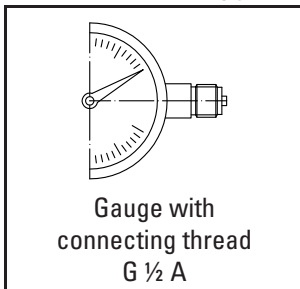


PN8 DN12 DENSITY GAUGE CONNECTION

Order No.: 3-1095-R017 T
Material: AL

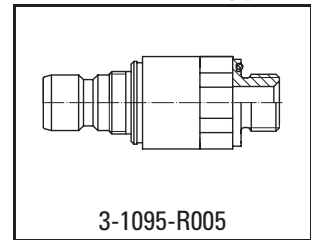


Suitable connecting parts



Gauge is not included in the delivery

Suitable connecting parts





The coupling allows to establish a connection by simply fitting both coupling parts into each other. Before load relieving of the coupling seats the pressure- and vacuum tight coupling is sealed inside with an O-ring during the coupling process. The coupling is forced to be open in coupled position. If both coupling sides are separated again the sealing seats shut off automatically.

All couplings are temperature-resistant from -40 °C to +80 °C.

In special version these couplings are also available for a temperature range of -60 °C to +80 °C.

The suitable connecting parts for DILO couplings must be ordered separately.

DILO couplings DN20

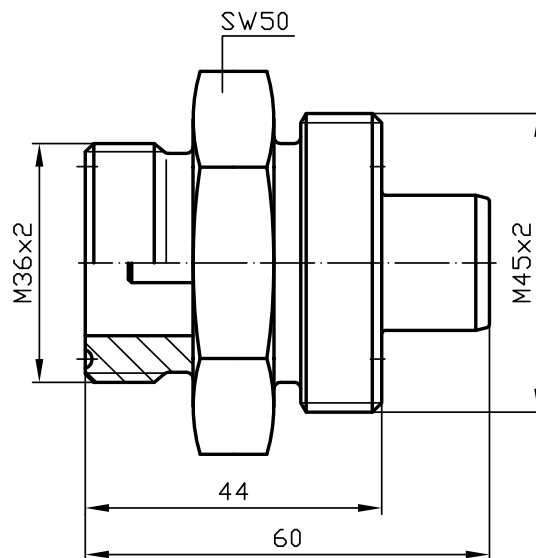
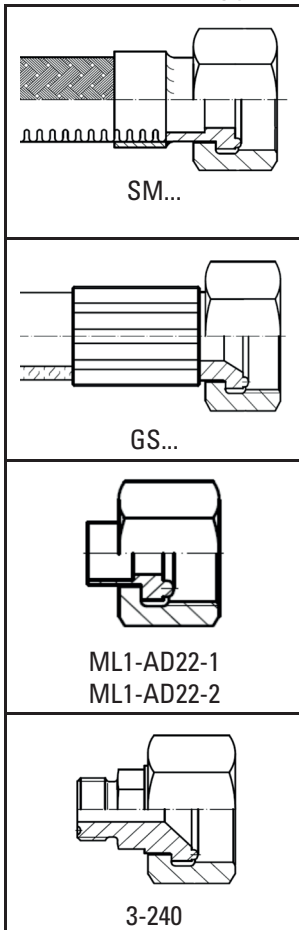
■ VK/A-02/20	Coupling groove part PN64 DN20.....	58
■ VK/B(G)-03/20	Coupling groove part PN64 DN20 with O-ring.....	59
■ VK/FL-01/20	Flange coupling PN64 DN20.....	60
■ 3-777-R001	Flange coupling PN64 DN20 with 2-hole flange.....	61
■ 3-685-R001	Flange coupling PN64 DN20.....	62
■ VK/KN-04/20	Covering cap for coupling groove part PN64 DN20	63
■ VK/F-02/20	Coupling tongue part PN64 DN20.....	64
■ 3-1121-R003	Quick coupling DN20.....	65
■ 6-1161-R012	Coupling tongue part PN64 DN20 with connecting coupling for measuring device	66
■ 6-1206-R001	Coupling tongue part PN64 DN20.....	67
■ 6-1092-R006	Transition piece PN64 DN20.....	68
■ 6-1281-R001	Coupling tongue part with air filter.....	69
■ SK-282-R020	Gauge connecting coupling PN64 DN20.....	70

PN64 DN20
COUPLING GROOVE PART

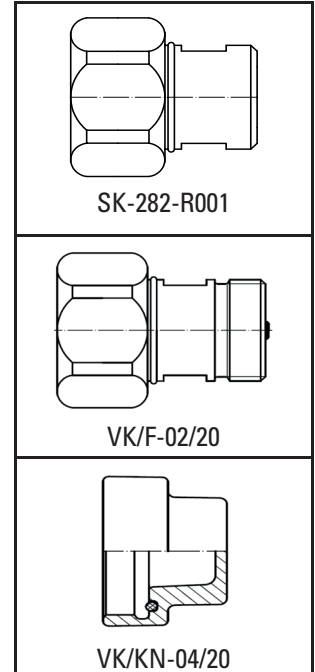


Order No.	Material
VK/A-02/20 T	AL
VK/A-02/20 P	Brass
VK/A-02/20 E	Stainless steel

Suitable connecting parts



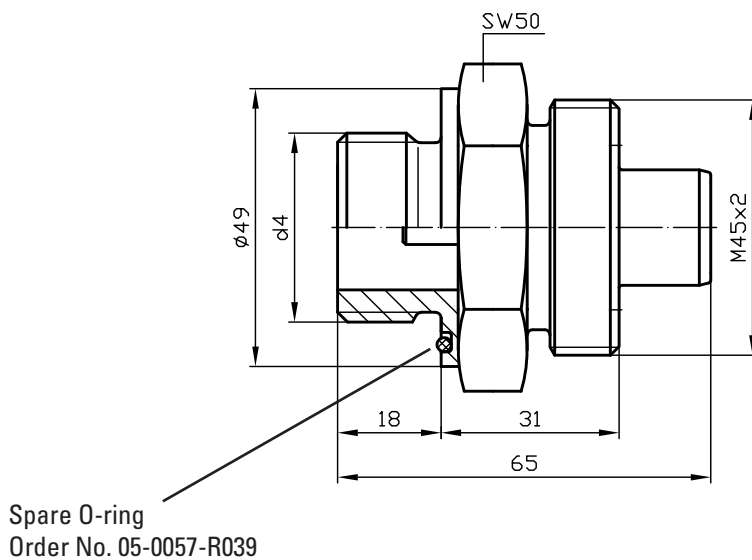
Suitable connecting parts



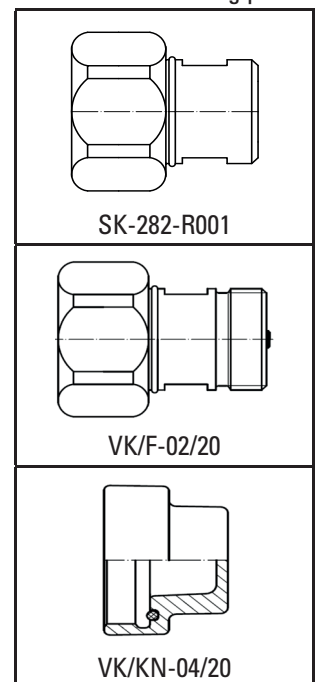
PN64 DN20
COUPLING GROOVE PART WITH O-RING



d4	Order No.	Material
M33 x 2	VK/B-03/20 T	AL
M33 x 2	VK/B-03/20 E	Stainless steel
M33 x 2	VK/B-03/20 P	Brass
G 1 A	VK/BG-03/20 T	AL
G 1 A	VK/BG-03/20 E	Stainless steel
G 1 A	VK/BG-03/20 P	Brass



Suitable connecting parts

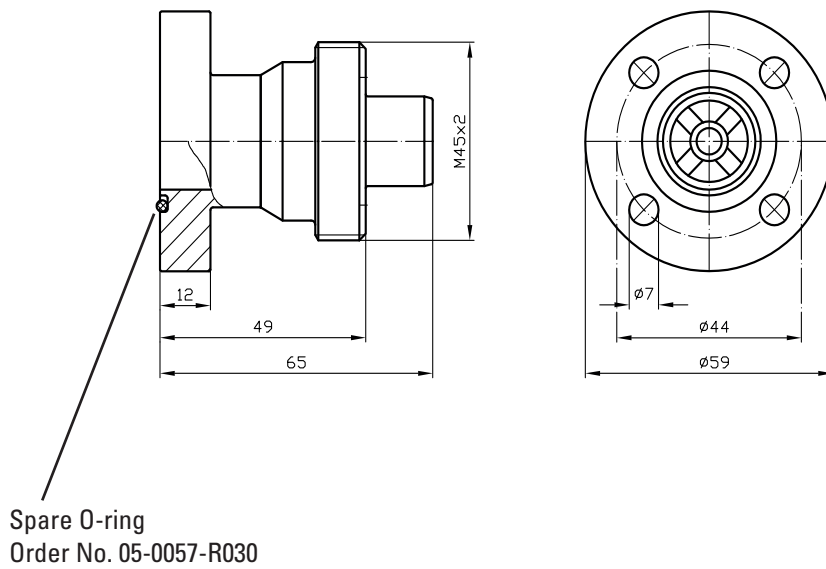


In special version the screw-in thread can also be supplied with sealing edge according to DIN 3852-1 and DIN EN ISO 1179.

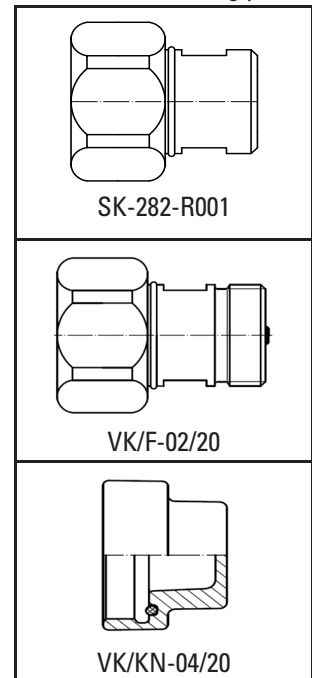
PN64 DN20
FLANGE COUPLING



Order No.	Material
VK/FL-01/20 T	AL
VK/FL-01/20 E	Stainless steel



Suitable connecting parts

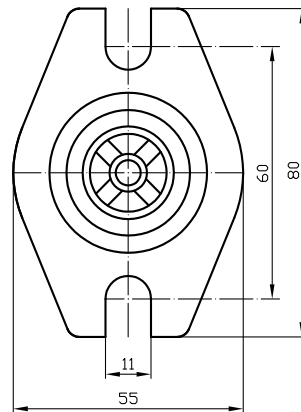
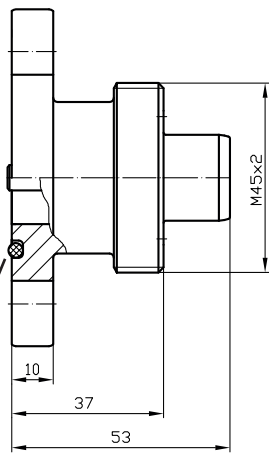


Other flanges are available on request.

PN64 DN20
FLANGE COUPLING WITH 2-HOLE FLANGE

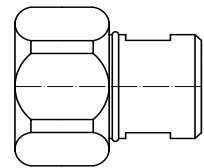


Order No.: 3-777-R001 T
Material: AL

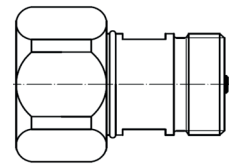


Spare O-ring
Order No. 05-0057-R098

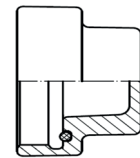
Suitable connecting parts



SK-282-R001



VK/F-02/20



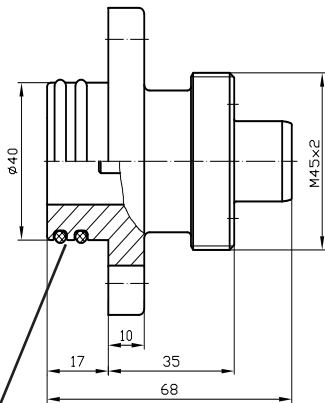
VK/KN-04/20

Other flanges are available on request.

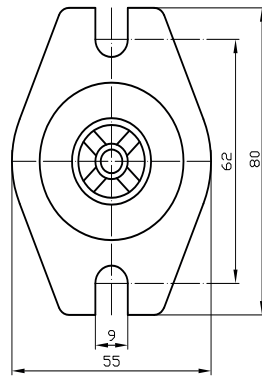
PN64 DN20 FLANGE COUPLING

Order No.: 3-685-R001 T

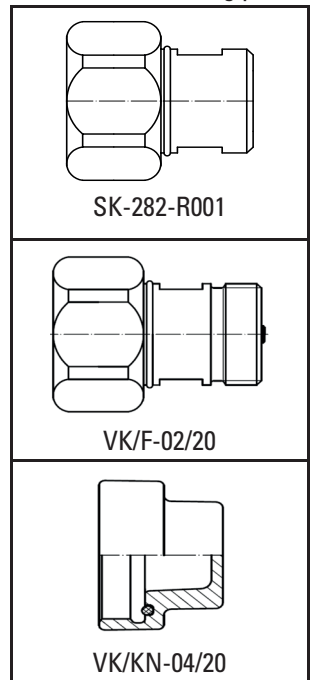
Material: AL



Spare O-ring
Order No. 05-0057-R116



Suitable connecting parts



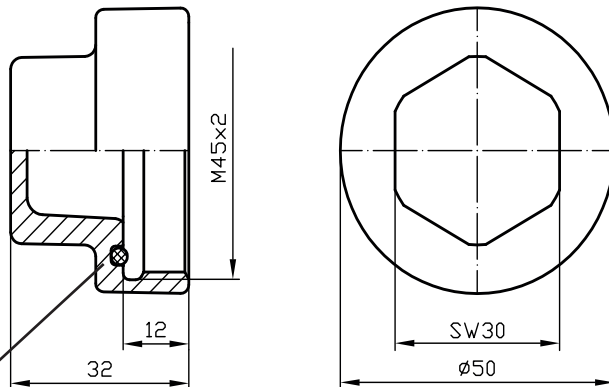
Other flanges are available on request.

PN64 DN20
COVERING CAP FOR COUPLING GROOVE PART



Order No.	Material
VK/KN-04/20 T	AL
VK/KN-04/20 E	Stainless steel
VK/KN-04/20 PA	Plastic material

Suitable connecting parts



Spare O-ring
Order No. 05-0057-R116

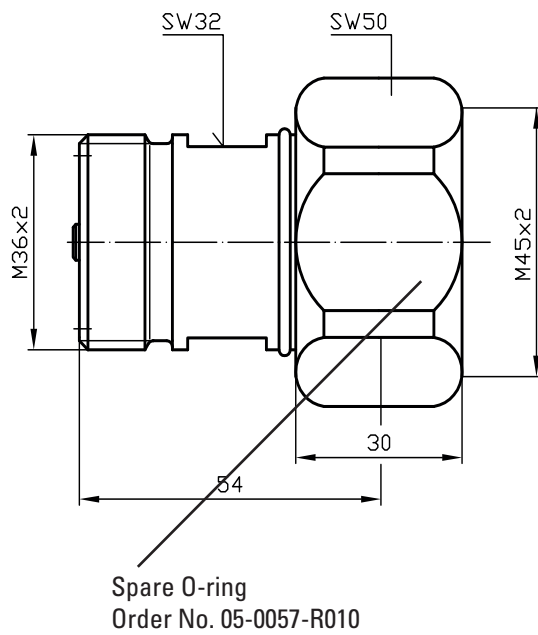
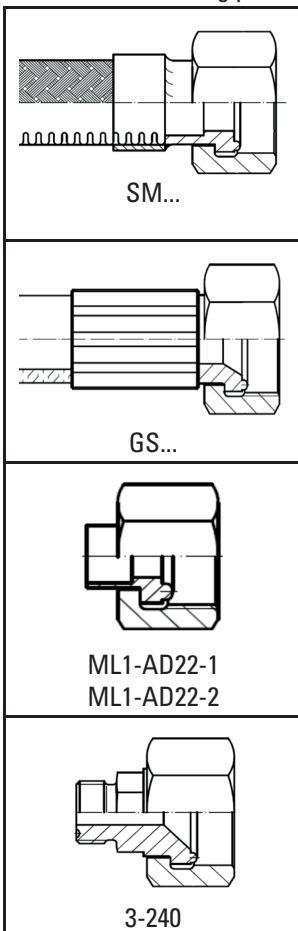
	3-777-R001
	VK/FL-01/20
	3-685-R001
	VK/A-02/20
	VK/B-03/20 VK/BG-03/20

PN64 DN20
COUPLING TONGUE PART

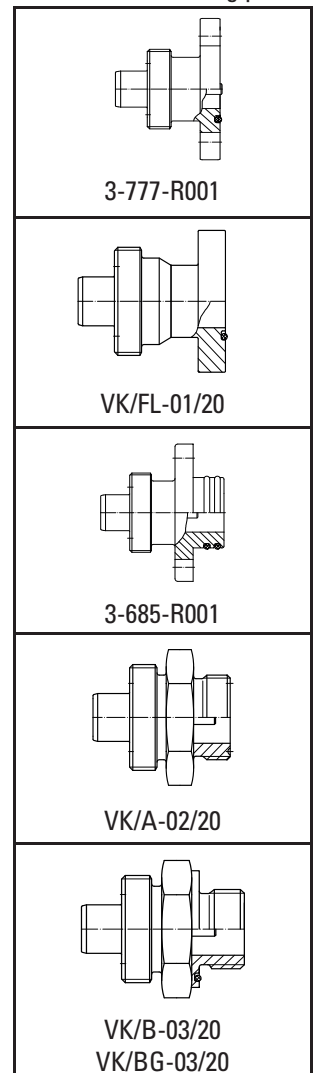


Order No.	Material
VK/F-02/20 T	AL
VK/F-02/20 E	Stainless steel
VK/F-02/20 P	Brass

Suitable connecting parts



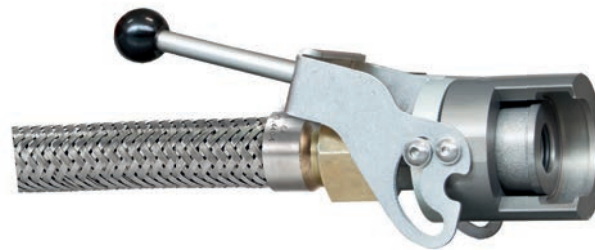
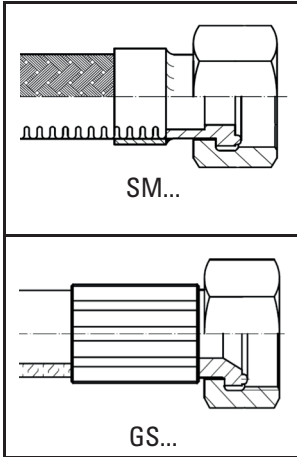
Suitable connecting parts



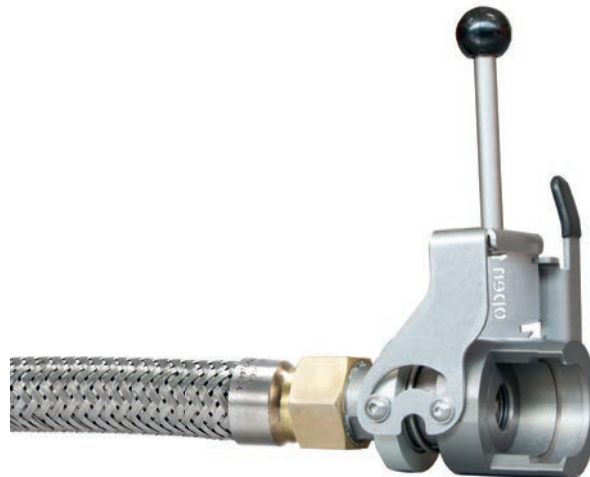
3-1121-R003
 QUICK COUPLING DN20 / PN10



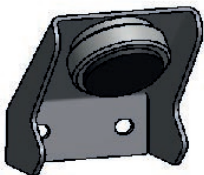
Suitable connecting parts



closed coupling

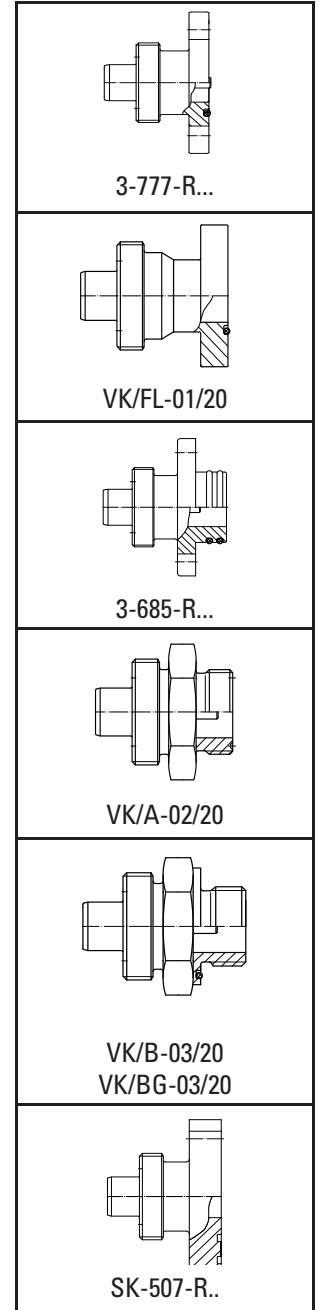


open coupling



Mount for safe fixation on the wall
 and as dust protection
 Article-No. 3-1121-R093

Suitable connecting parts



For easy coupling and uncoupling of hoses

The quick coupling is very useful in all fields of application where hoses have to be frequently loosened and reconnected e. g. during final tests of completely mounted GIS fields. Thanks to the clamp lock the DN20 hoses can easily be connected without any loss of SF6 gas. Thus the handling times in GIS production are shortened and productivity is increased considerably.

Important note:

The quick coupling is only compatible with DILLO coupling groove parts of version 2 (additional "V2" stamp on the flange or wrench size).

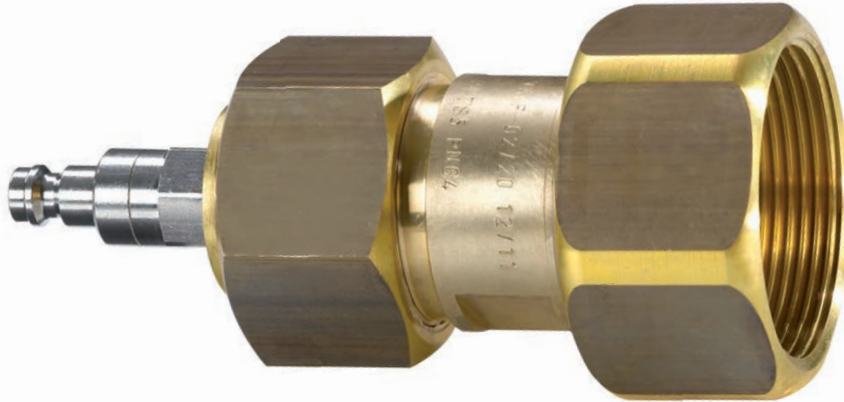
Please see our product video!



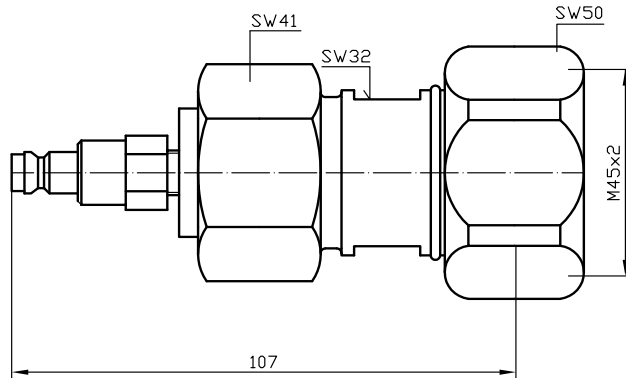
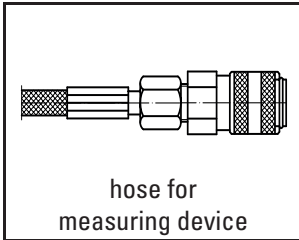
PN35 DN20
COUPLING TONGUE PART
 with connecting coupling for measuring device

Order No.: 6-1161-R012

Material: Messing



Suitable connecting parts



Suitable connecting parts

3-777-R001
VK/FL-01/20
3-685-R001
VK/A-02/20
VK/B-03/20 VK/BG-03/20

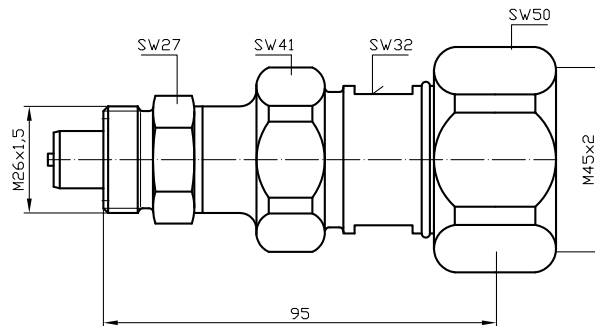
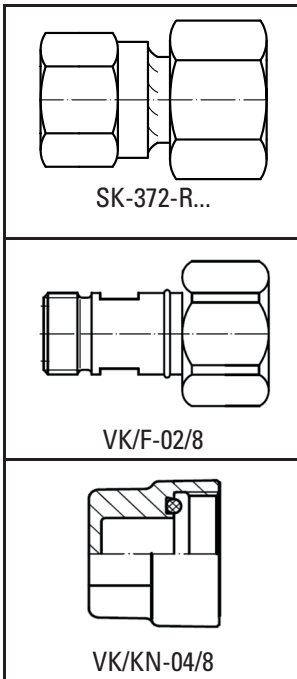
PN64 DN20
COUPLING TONGUE PART



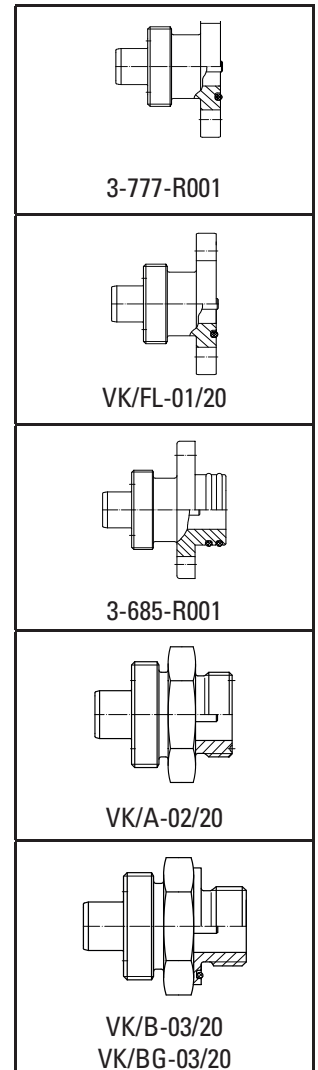
Order No.: 6-1206-R001
Material: Messing



Suitable connecting parts



Suitable connecting parts



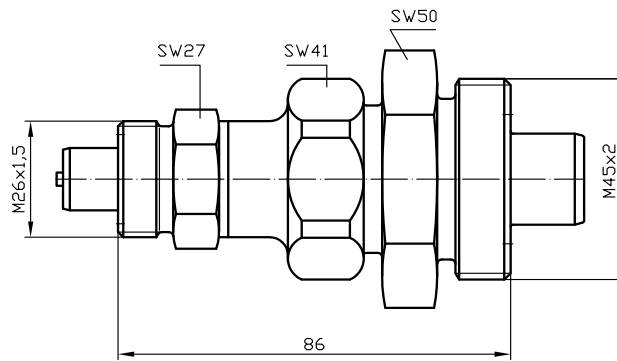
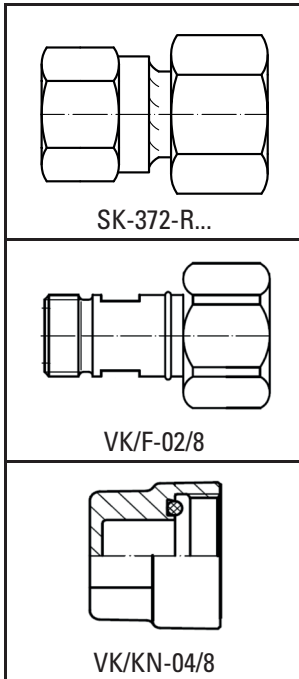
PN64 DN20 / DN8
TRANSITION PIECE

Order No.: 6-1092-R006

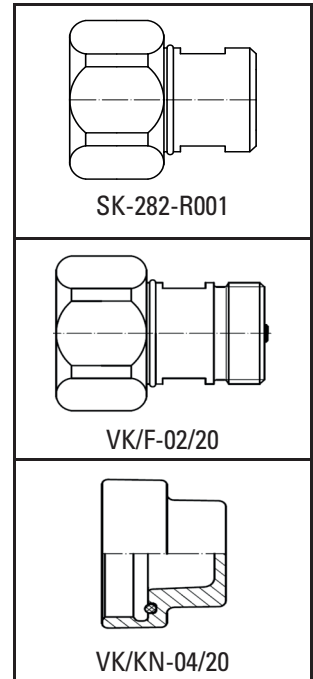
Material: Brass



Suitable connecting parts



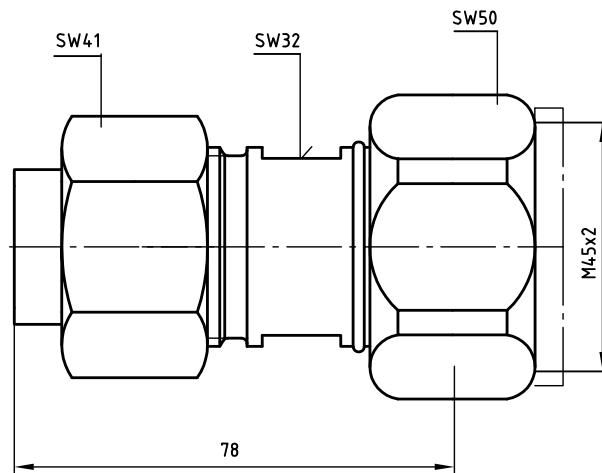
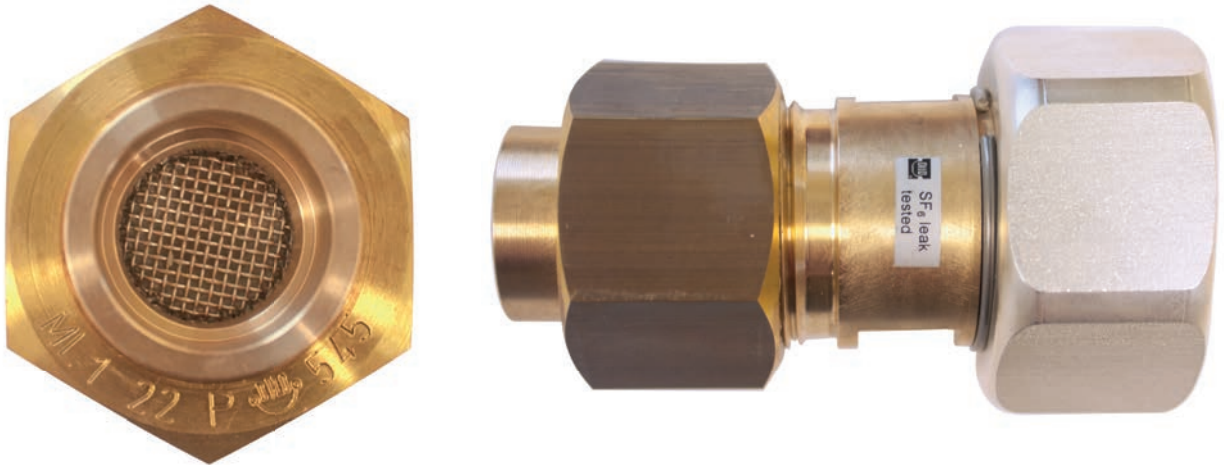
Suitable connecting parts



PN64 DN20
COUPLING TONGUE PART WITH AIR FILTER



Order No.: 6-1281-R001
Material: Brass



Suitable connecting parts

3-777-R001
VK/FL-01/20
3-685-R001
VK/A-02/20
VK/B-03/20 VK/BG-03/20

Description

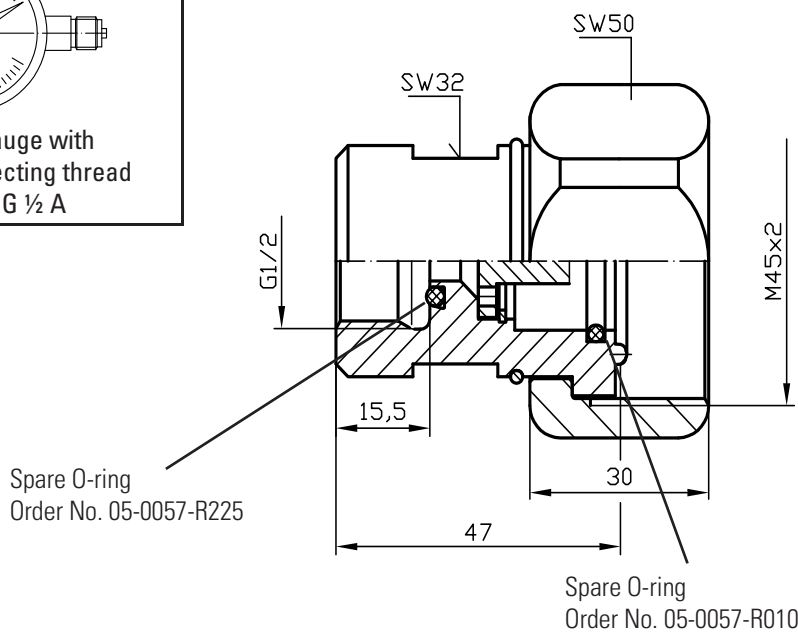
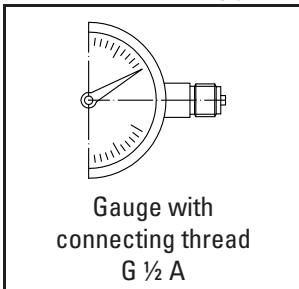
This coupling tongue part allows gas compartments which are under vacuum to be flooded with air after the SF6 gas recovery and it is not necessary to use any service cart. The integrated 100- μ m filter sieve prevents dirt particles from ambient air penetrating the gas compartment during the flooding process.

PN64 DN20
GAUGE CONNECTING COUPLING

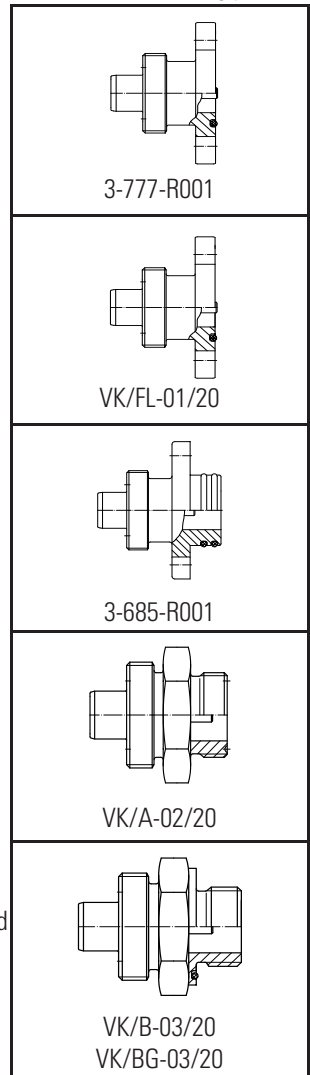


Order No.	Materials
SK-282-R020 T	AL
SK-282-R020 P	Brass

Suitable connecting parts

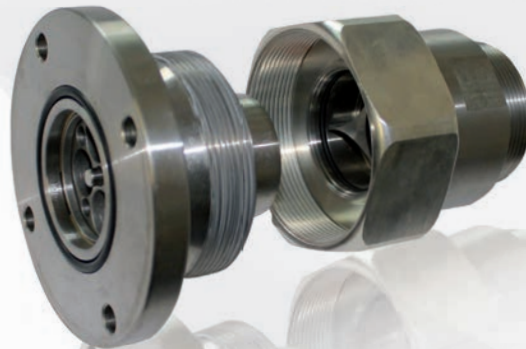


Suitable connecting parts



Description:

The gauge connecting coupling serves as connecting piece to a coupling groove part DN20. When coupling, a pin in the gauge connecting coupling opens the flow of the opposite coupling groove part (forced opening). This allows to read the present operating pressure on the screwed-in gauge. When disconnecting, the conical nipple of the groove part is closed by spring load (pressure and vacuum tight). If the gauge connecting coupling is not connected the gauge shows „zero pressure“. The connecting coupling allows to install the gauge in any required position (rotatable 360°).



The coupling allows to establish a connection by simply fitting both coupling parts into each other. Before load relieving of the coupling seats the pressure- and vacuum tight coupling is sealed inside with an O-ring during the coupling process. The coupling is forced to be open in coupled position. If both coupling sides are separated again the sealing seats shut off automatically.

All couplings are temperature-resistant from -40 °C to +80 °C.

DILO couplings DN40 have a leakrate of 1×10^{-6} mbar l/s.

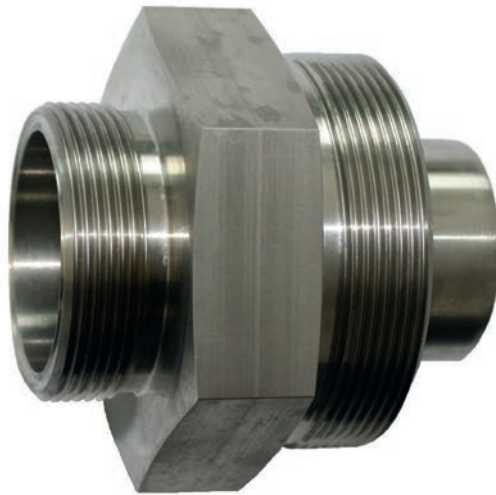
The suitable connecting parts for DILO couplings must be ordered separately.

DILO couplings DN40

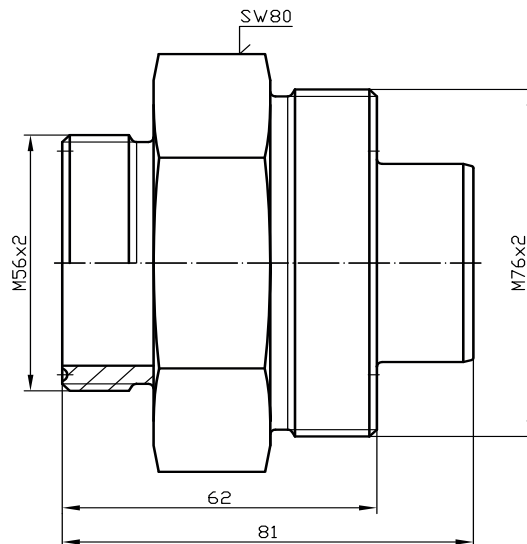
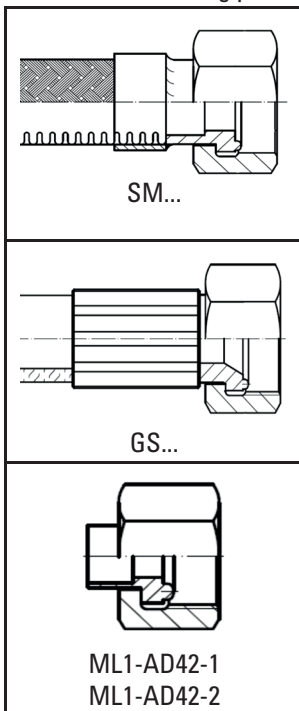
■ VK/A-02/40	Coupling groove part PN16 DN40.....	72
■ VK/FL-01/40	Flange coupling PN16 DN40.....	73
■ VK/KN-01/40	Covering cap PN16 DN40.....	74
■ VK/F-01/40	Coupling tongue part PN16 DN40.....	75
■ 6-1092-R001	Transition piece PN16 DN40.....	76

PN16 DN40
COUPLING GROOVE PART

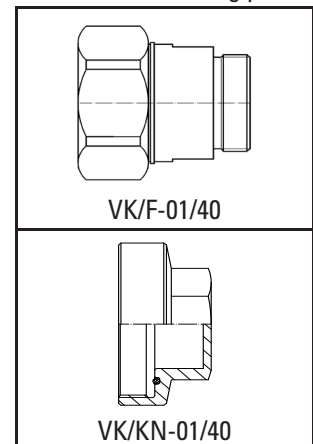
Order No.: VK/A-02/40 E
Material: Stainless steel



Suitable connecting parts



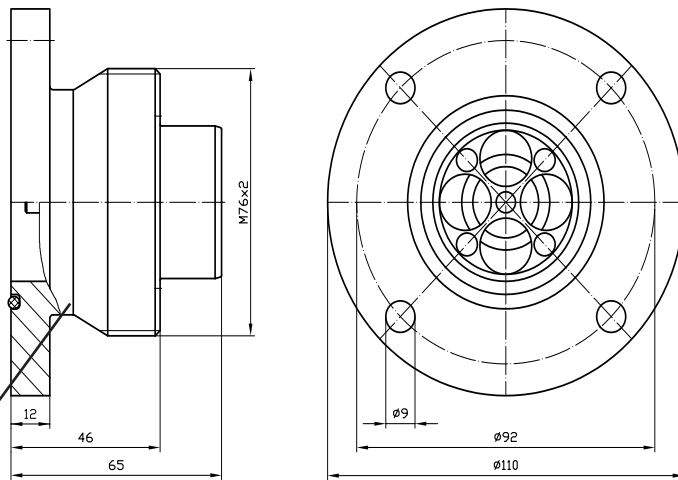
Suitable connecting parts



PN16 DN40
FLANGE COUPLING

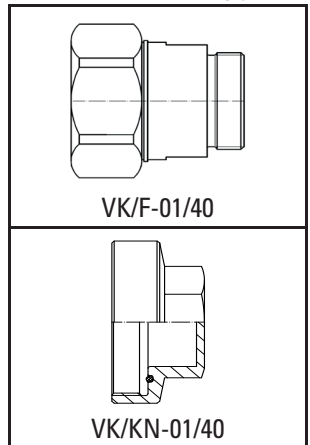


Order No.: VK/FL-01/40 E
Material: Stainless steel



Spare O-ring
Order No. 05-0057-R126

Suitable connecting parts

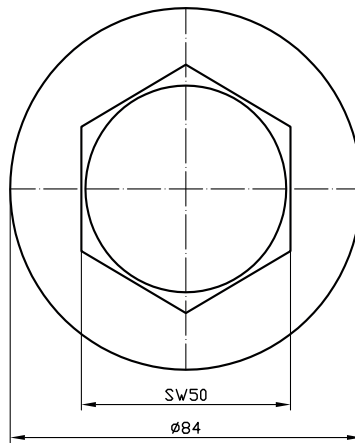
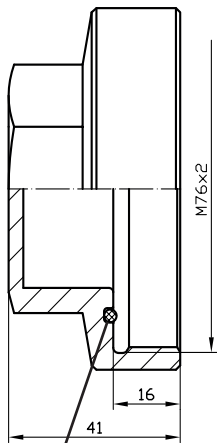


Other flanges are available on request.

PN16 DN40
COVERING CAP

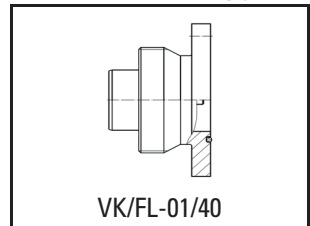
Order No.: VK/KN-01/40 T

Material: AL



Spare O-ring
Order No. 05-0057-R126

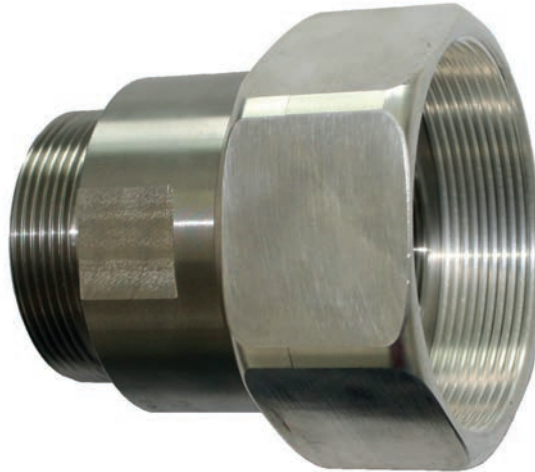
Suitable connecting parts



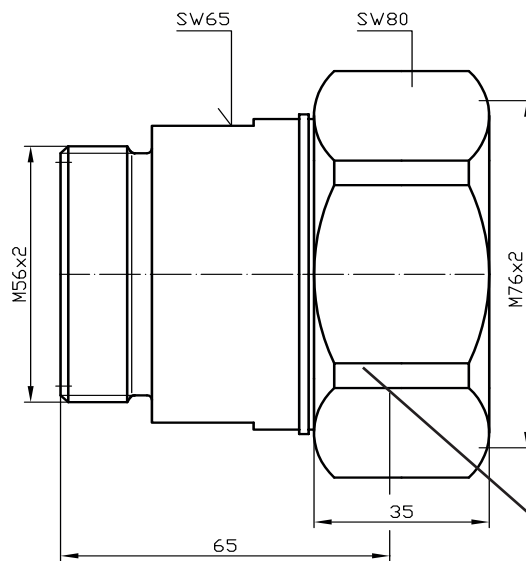
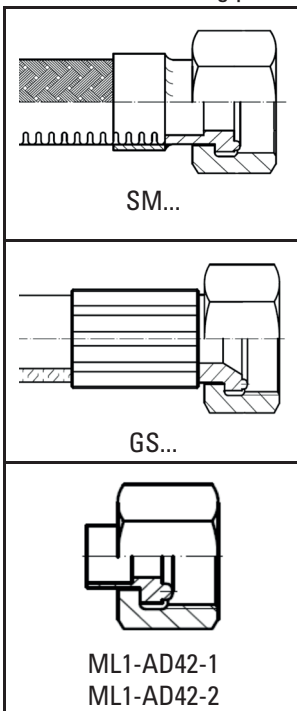
PN16 DN40
COUPLING TONGUE PART



Order No.: VK/F-01/40 E
Material: Stainless steel

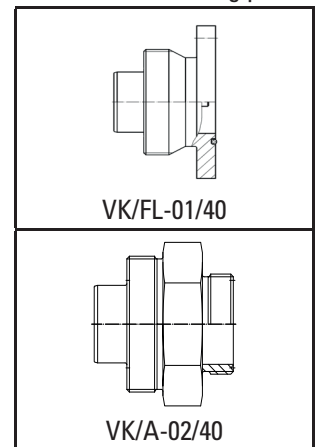


Suitable connecting parts



Spare O-ring
Order No. 05-0057-R141

Suitable connecting parts



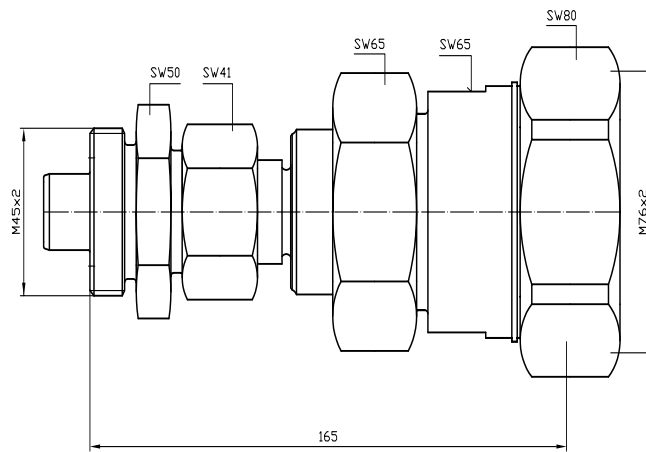
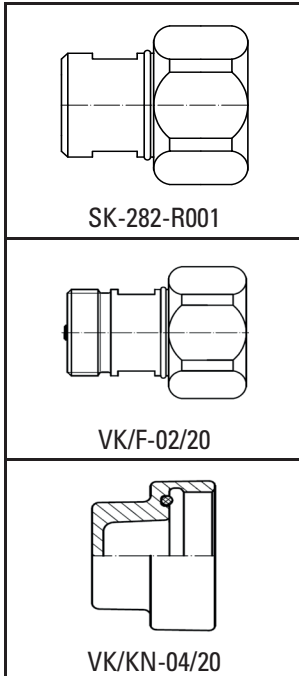
PN16 DN40 / DN20
TRANSITION PIECE

Order No.: 6-1092-R001

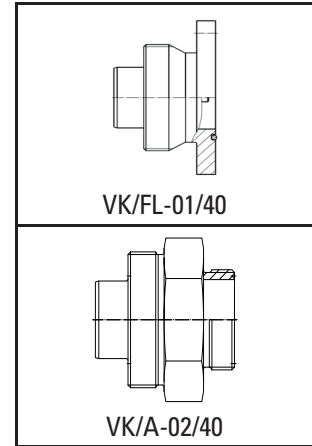
Material: Brass / Stainless steel



Suitable connecting parts



Suitable connecting parts





DILO soldering unions are particularly used in factory fabrication area piping. DILO offers a very wide variety of unions. Soldering unions are available either with soldering connections on both ends where the highest vibration resistance is required or with a soldering connection on one end and a screw in thread on the other.

DILO soldering unions withstand pressures up to 64 bar.

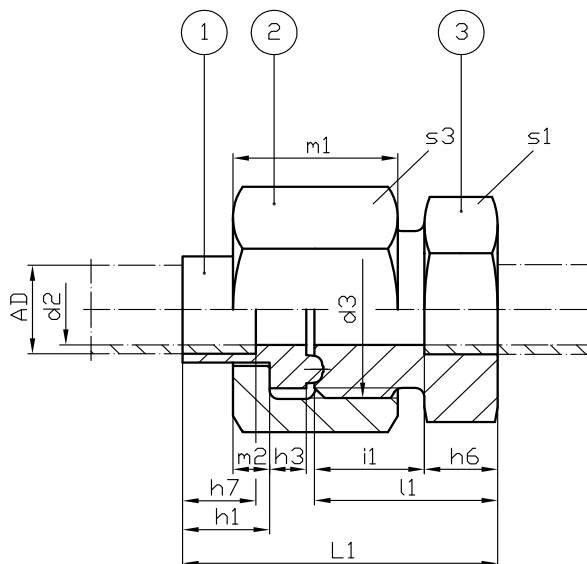
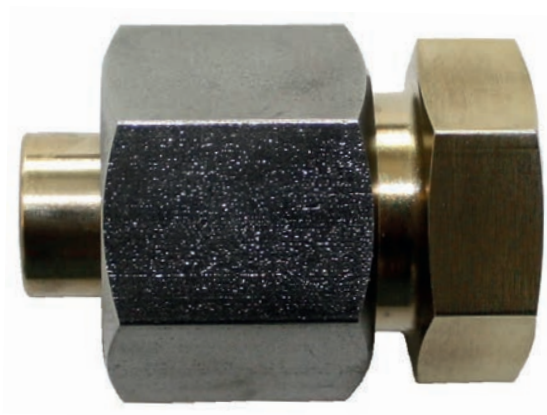
Different materials are available for all applications.

The suitable connecting parts for DILO couplings must be ordered separately.

DILO soldering unions of the ML1 series for pressures up to PN64

■ ML1A-AD	Soldering stub-soldering union PN64.....	78
■ ML1B0-AD	Screw-in stub-soldering union PN64 with O-ring.....	79
■ ML1M-AD10	Gauge union PN64 DN8.....	80
■ 3-328-R020	Gauge union PN64 DN8.....	81
■ ML1-..8	Blanking disk PN64.....	82
■ VST03	Plug PN64.....	82
■ 05-1545-R...	Tee piece.....	83
■ 05-1545-R...	Angle piece.....	83
■ 05-1545-R...	Plug-in angle piece.....	84

PN64 SOLDERING STUB-SOLDERING UNION

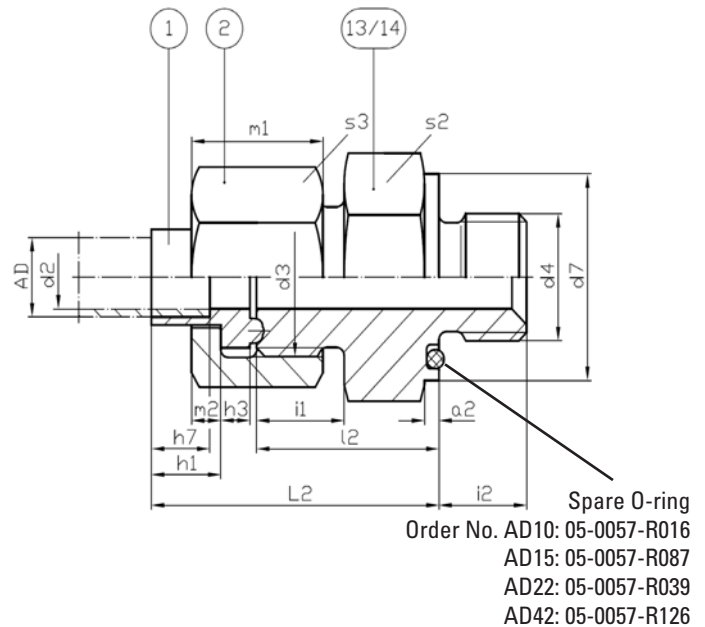


Tube outside diameter Ø AD	d2	d3	L1	l1	h1	h3	h6	h7	m1	m2	i1	s1	s3	Order No.
10	8	M20x1,5	35	20	9,5	4	8	8	18	4	12	22	24	ML1A-AD10 P
10	8	M20x1,5	35	20	9,5	4	8	8	18	4	12	22	24	ML1A-AD10 C
15	12	M26x1,5	52	22	13,5	5	10	10	20	5	12	27	32	ML1A-AD15 P
22	19	M36x2	54	31	15,5	6	12	12	26	7	16	41	41	ML1A-AD22 P
22	19	M36x2	54	31	15,5	6	12	12	26	7	16	41	41	ML1A-AD22 C
42	35	M56x2	65	37	19,5	7	20	20	29	7	18	60	65	ML1A-AD42 P
42	35	M56x2	65	37	19,5	7	20	20	29	7	18	60	65	ML1A-AD42 C

Piece	Designation	Order No.	Material
1	Soldering shoulder-tongue part	ML1-AD_____-1	P = Brass / C = Stainless steel
2	Clamping nut	ML1-AD_____-2	P = Brass / C = Stainless steel
3	Soldering stub-groove part	ML1-AD_____-3	P = Brass / C = Stainless steel

Note: For the nominal width (outside diameter 10) the clamping nut is made of stainless steel.

PN64
SCREW-IN STUB-SOLDERING UNION WITH O-RING

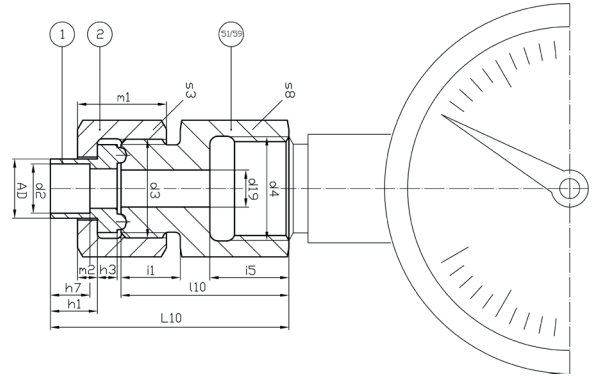
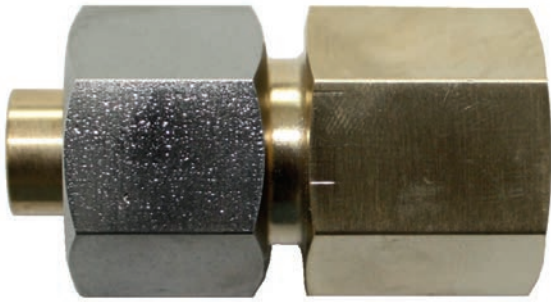


Tube outside diameter Ø AD	d2	d3	d4	d7	L2	i2	h1	h3	h7	m1	m2	i1	i2	a2	s2	s3	Order No.
10	8	M20x1,5	M16x1,5	26	40	25	9,5	4	8	18	4	12	12	2	27	24	ML1B0-AD10 P
10	8	M20x1,5	M16x1,5	26	40	25	9,5	4	8	18	4	12	12	2	27	24	ML1B0-AD10 T
10	8	M20x1,5	G 3/8 A	26	40	25	9,5	4	8	18	4	12	12	2	27	24	ML1B0-AD10G P
10	8	M20x1,5	G 3/8 A	26	40	25	9,5	4	8	18	4	12	12	2	27	24	ML1B0-AD10G T
15	12	M26x1,5	G ½ A	32	47	27	13,5	5	10	20	5	12	14	3	32	32	ML1B0-AD15G P
22	19	M36x2	M33x2	49	59	36	15,5	6	12	26	7	16	18	3	50	41	ML1B0-AD22 P
22	19	M36x2	M33x2	49	59	36	15,5	6	12	26	7	16	18	3	50	41	ML1B0-AD22 T
22	19	M36x2	G 1 A	49	59	36	15,5	6	12	26	7	16	18	3	50	41	ML1B0-AD22G P
22	19	M36x2	G 1 A	49	59	36	15,5	6	12	26	7	16	18	3	50	41	ML1B0-AD22G T
42	35	M56x2	G 1½ A	65	69	41	19,5	7	20	29	7	18	22	3	65	65	ML1B0-AD42G P

Piece	Designation	Order No.	Material
1	Soldering shoulder-tongue part	ML1-AD_____-1	P = Brass / C = Stainless steel
2	Clamping nut	ML1-AD_____-2	P = Brass / C = Stainless steel
13	Screw-in stub (M16x1,5 / M33x2)	ML1-AD_____-13	P = Brass / T = AL
14	Screw-in stub (G 3/8 A / G ½ A / G 1 A / G 1½ A)	ML1-AD_____-14	P = Brass / T = AL

Note: For the nominal width (outside diameter 10) the clamping nut is made of stainless steel.
Regarding material AL only part 13 or 14 is made of AL, part 1 and 2 are made of stainless steel.
In special version the screw-in thread can also be supplied with sealing edge according to DIN 3852-1 and DIN EN ISO 1179.

PN64
GAUGE UNION



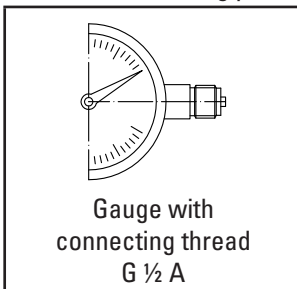
Tube outside diameter Ø AD	d2	d3	d4	d19	L10	l10	h1	h3	h7	m1	m2	i1	i5	s3	s8	Order No.
10	8	M20x1,5	G 1/2	7,5	49	34	9,5	4	8	18	4	12	16	24	24	ML1M-AD10/51
10	8	M20x1,5	G 1/4	5,5	44	29	9,5	4	8	18	4	12	13	24	22	ML1M-AD10/59

Piece	Designation	Order No.	Material
1	Soldering shoulder-tongue part	ML1-AD10-1 P	Brass
2	Clamping nut	ML1-AD10-2 C	Stainless steel
51	Gauge connecting piece	M1-10-51 P	Brass
59	Gauge connecting piece	M1-10-59 P	Brass

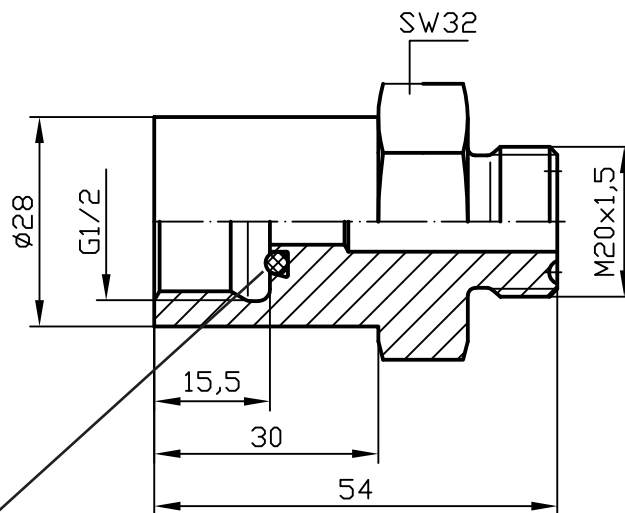
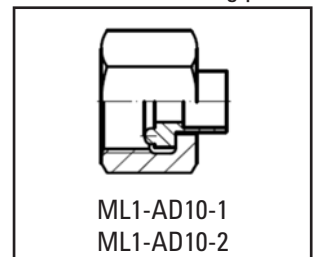
Order No.: 3-328-R020 P
Material: Brass



Suitable connecting parts

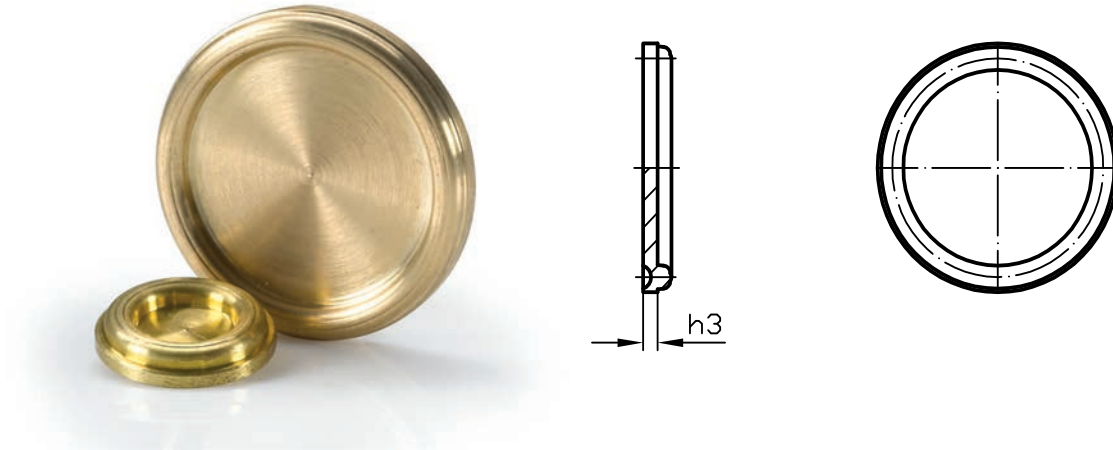


Suitable connecting parts



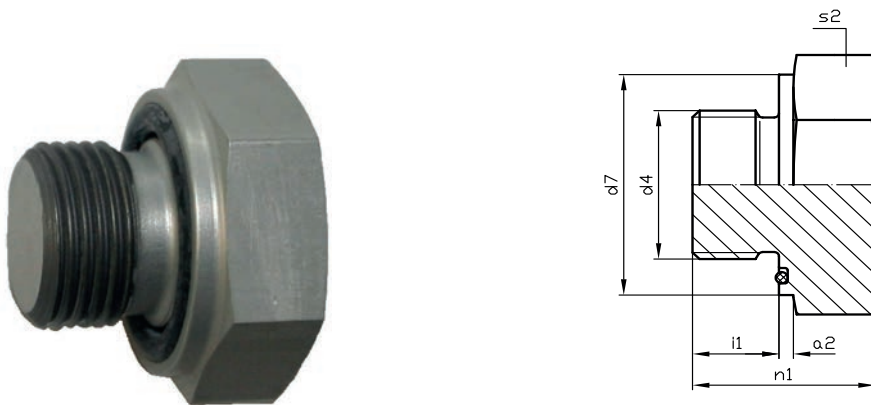
Spare O-ring
Order No. 05-0057-R225

PN64
BLANKING DISK



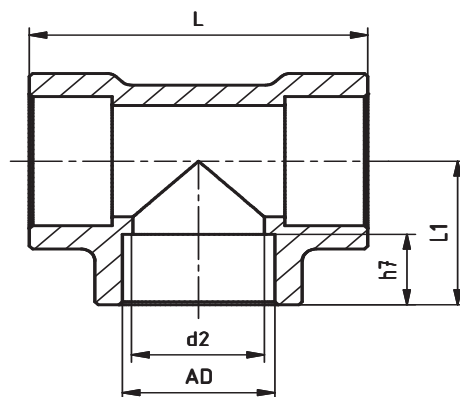
Tube outside diameter \varnothing AD	h3	Order No.	Material
10	1,5	ML1-10-8 P	Brass
22	2	ML1-22-8 P	Brass
42	3	ML1-42-8 P	Brass

PN64
PLUG



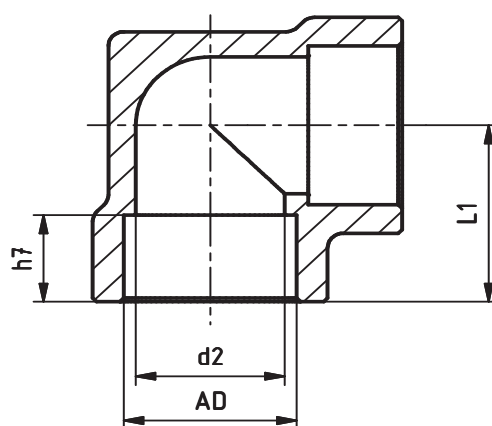
Metric fine thread ISO							Whitworth pipe thread			Spare O-r ing	
d4	d7	n1	i1	a2	s2	Bestellzeichen	Material	d4	Bestellzeichen	Material	Bestellzeichen
	23	23	12	2	24			G 1/4 A	VST03 / G 1/4 A T	AL	05-0057-R088
M16x1,5	26	24	12	2	27	VST03 / M16x1,5	AL	G 3/8 A	VST03 / G 3/8 A T	AL	05-0057-R016
	36	32	15	3	36			G 1/2 A	VST03 / G 1/2 A T	AL	05-0057-R033
M33x2	49	38	18	3	50	VST03 / M33x2 T	AL	G 1 A	VST03 / G 1 A T	AL	05-0057-R039
	65	45	22	3	65			G 1 1/2 A	VST03 / G 1 1/2 A T	AL	05-0057-R126

Tee piece



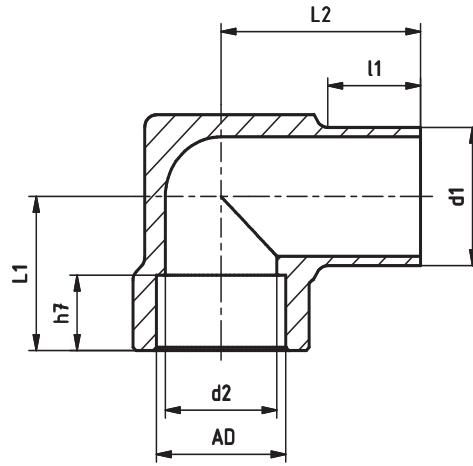
Tube outside diameter \varnothing AD	PN	d2	L	L1	h7	Order No.	Material
10	64	8	29	14,5	8	05-1545-R001	Brass
15	64	12	38	19	10	05-1545-R004	Brass
22	64	19	49	24,5	12	05-1545-R002	Brass
42	25	39	90	45	20	05-1545-R003	Brass

Angle piece

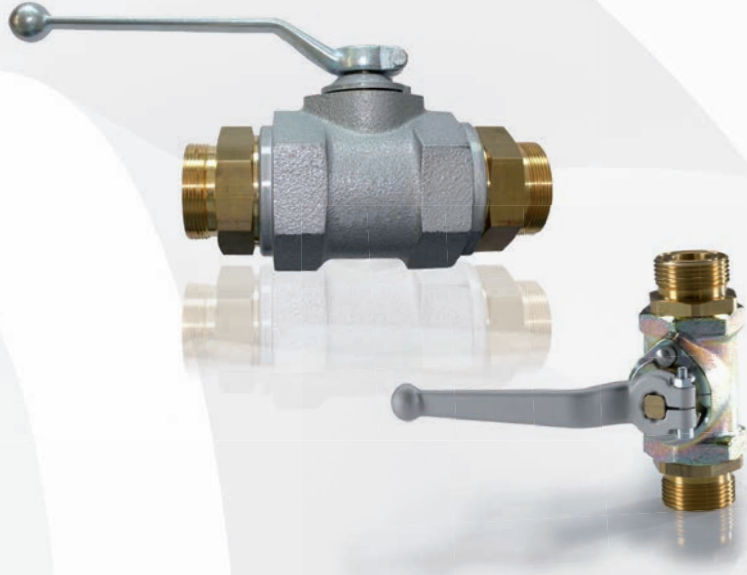


Tube outside diameter \varnothing AD	PN	d2	L1	h7	Order No.	Material
10	64	8	14,5	8	05-1545-R005	Brass
15	64	12	19	10	05-1545-R008	Brass
22	64	19	24,5	12	05-1545-R006	Brass
42	25	39	45	20	05-1545-R007	Brass

PLUG-IN ANGLE PIECE



Tube outside diameter \varnothing AD	PN	d2	L1	h7	L2	d1	l1	Order No.	Material
10	64	8	14,5	8	21,5	10	10	05-1545-R010	Brass
15	64	12	19	10	26	15	13	05-1545-R011	Brass
22	64	19	24,5	12	34	22	16	05-1545-R012	Brass
42	25	39	45	20	56,4	42	24	05-1545-R013	Brass



The ball valve has a compact design and is maintenance-free. The notch on the spindle head and the position of the handle show the flow rate (closed or opened). The flow rate is controlled by a ball which is stored in a sealing. Each ball valve is tested for tightness in our works.

All ball valves are temperature-resistant from -40 °C to +80 °C.

The suitable connecting parts must be ordered separately.

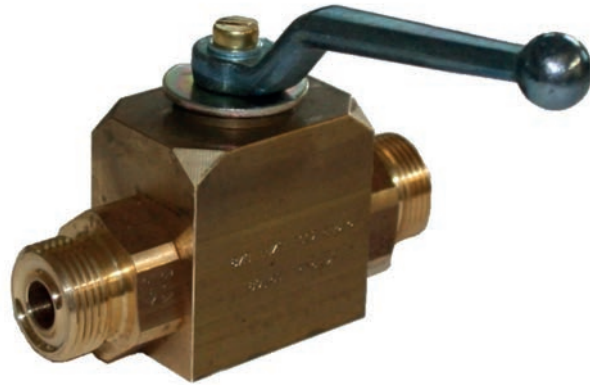
DILO ball valves for pressures up to PN64

■ 3-365-R001	Ball valve PN64 DN8.....	86
■ 3-365-R008	Ball valve with handwheel PN64 DN8.....	87
■ 3-383-R001	Ball valve PN64 DN20.....	88
■ 3-679-R001	Ball valve PN25 DN40.....	89

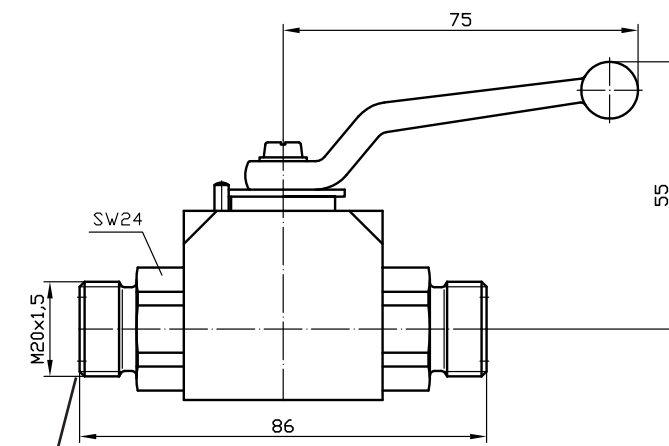
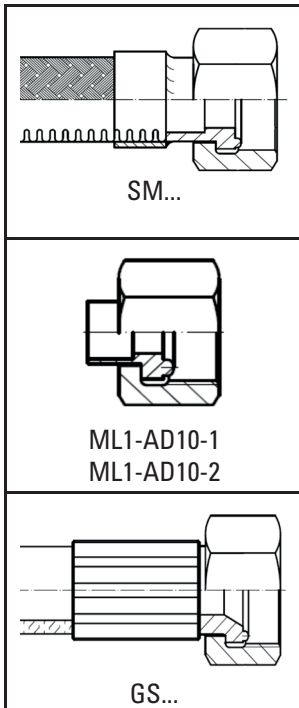
PN64 DN8
BALL VALVE

Order No.: 3-365-R001 P

Material: Brass



Suitable connecting parts
on both ends



other connections are available

PN64 DN8
BALL VALVE WITH HANDWHEEL

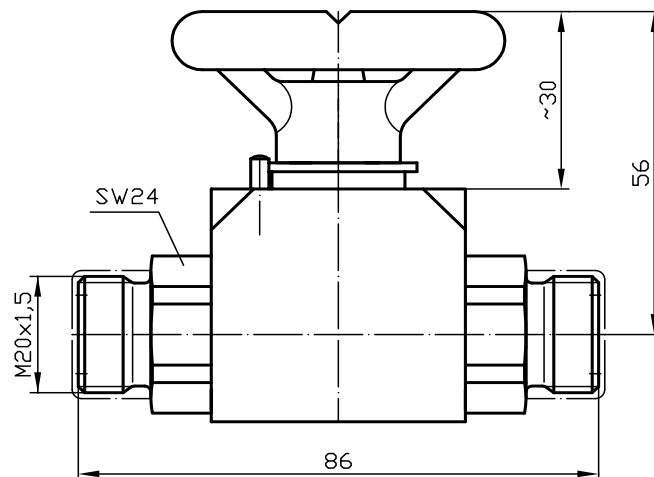
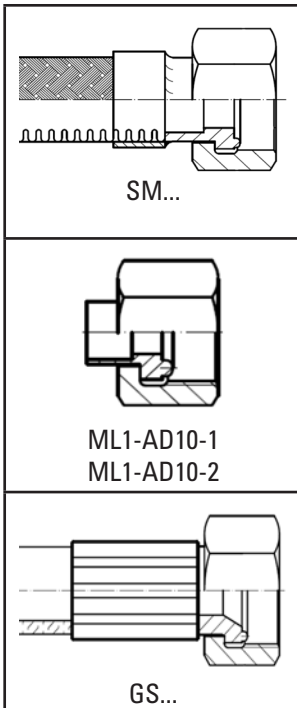


Order No.: 3-365-R008 P

Material: Brass

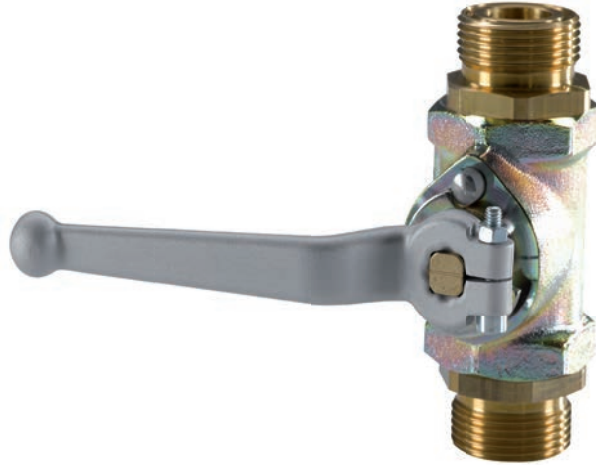


Suitable connecting parts
on both ends

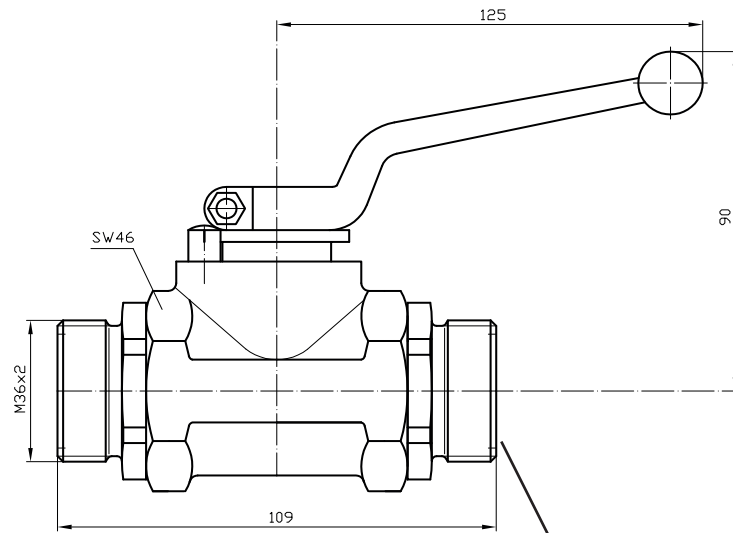
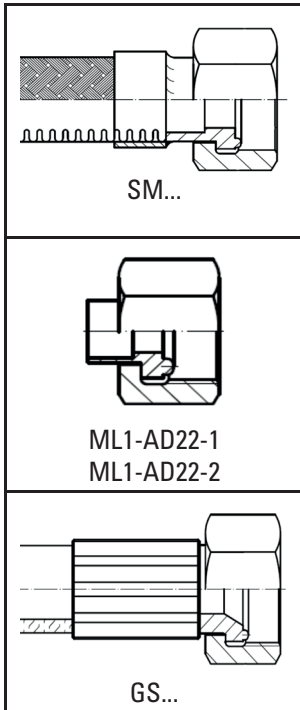


PN64 DN20
BALL VALVE

Order No.: 3-383-R001 P
Material: Brass



Suitable connecting parts
on both ends

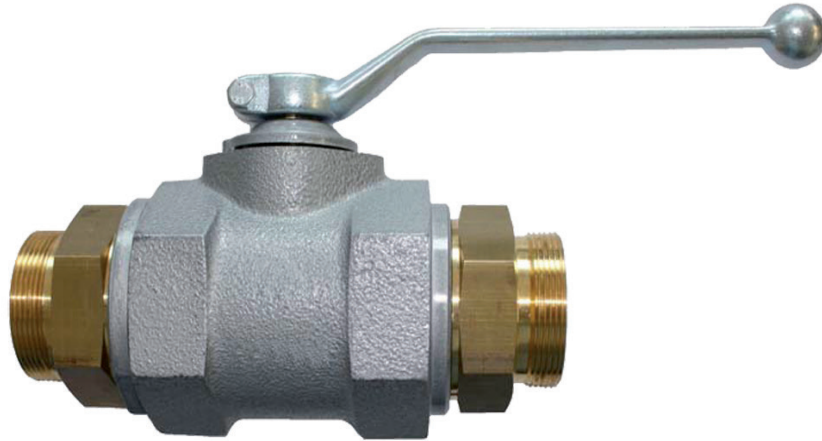


other connections are available

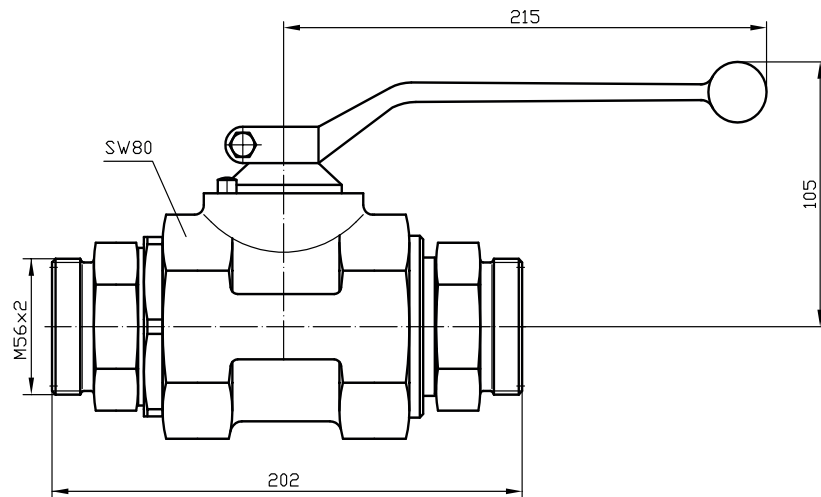
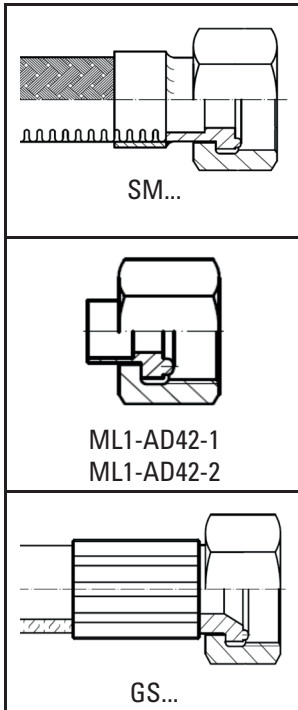
PN25 DN40
BALL VALVE

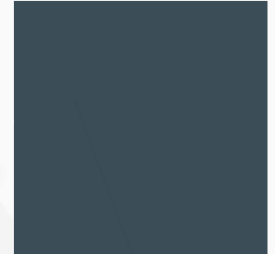


Order No.: 3-679-R001 P
Material: Brass



Suitable connecting parts
on both ends





We also offer wire braided stainless steel hoses as well as rubber hoses. They are pressure and vacuum tight and are available with different coupling connections. No matter whether you need a hose for connection to SF₆ maintenance devices, gas insulated fabrication plants or other devices, we can offer the appropriate hose connection.

The suitable connecting parts must be ordered separately.

DILO hoses up to nominal diameters DN40

▪ SM01	Wire braided hose.....	92
▪ SM03	Wire braided hose with elbow connection.....	93
▪ SM07	Wire braided hose with elbow connections....	94
▪ SM10	Wire braided hose with protective hose.....	95
▪ SM16	Wire braided hose with heat shrink tubing.....	96
▪ GS01	Rubber hose.....	97
▪ GS03	Rubber hose with elbow connection.....	98
▪ Ordering examples		99

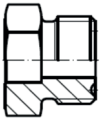
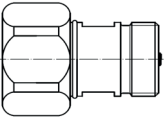
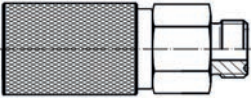
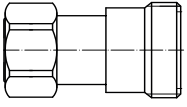
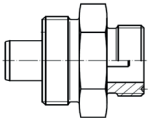
DN8 / DN20 / DN40
WIRE BRAIDED HOSE

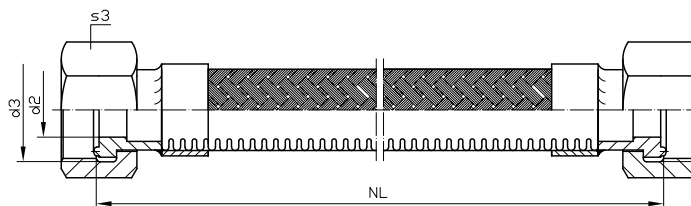


nominal pressure level	hose DN	minimum bending radius / onetime bending in mm	nominal bending radius / frequent movements in mm	fitting AD	fitting d2	fitting d3	fitting s3	Order No.* NL in mm
64	8	38	130	10	8	M20x1,5	24	SM0108L _____
40	20	70	170	22	19	M36x2	41	SM0120L _____
64	20	70	285	22	19	M36x2	41	SM1520L _____
40	40	130	300	42	35	M56x2	65	SM0140L _____

*Ordering example see page 99

Suitable connecting parts

 <p>ML1-AD10-3 ML1-AD22-3 ML1-AD42-3</p>
 <p>VK/F-02/8 VK/F-02/20 VK/F-01/40</p>
 <p>3-308-R002</p>
 <p>3-888-R001</p>
 <p>VK/A-02/20 VK/A-01/40</p>



Range of application and temperature:

Reduction factors apply for the operating pressure with increasing temperature in accordance with DIN EN ISO 10380, e.g. at 100° C the 0.74 factor applies. Only conditionally suitable for use in a marine or coastal atmosphere. Corrosion resistance tested according to IEC 60068-2-52.

UV-resistant. Increased service life and temperature resistance compared to rubber hose.

Materials and composition:

Full metal wall made of 1.4404 with outside wire sheathing made of stainless steel.
Supply length: max. 25 m

Fitting material: brass or stainless steel

For nominal diameter DN8 the clamping nut is made of stainless steel.


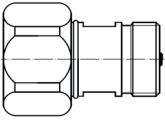
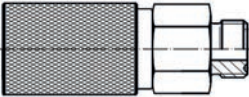
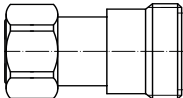
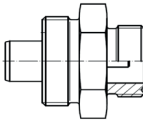
DN8 / DN20 / DN40
WIRE BRAIDED HOSE WITH ELBOW CONNECTION

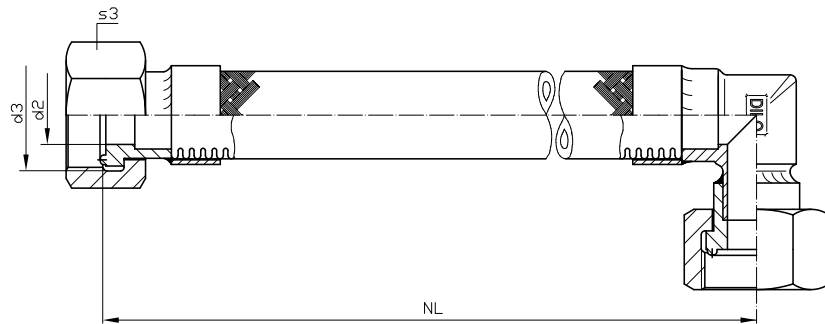


nominal pressure level	hose DN	minimum bending radius / onetime bending in mm	nominal bending radius / frequent movements in mm	fitting AD	fitting d2	fitting d3	fitting s3	Order No.* NL in mm
64	8	38	130	10	8	M20x1,5	24	SM0308L _____
40	20	70	170	22	19	M36x2	41	SM0320L _____
25	40	130	300	42	35	M56x2	65	SM0340L _____

*Ordering example see page 99

Suitable connecting parts

 <p>ML1-AD10-3 ML1-AD22-3 ML1-AD42-3</p>
 <p>VK/F-02/8 VK/F-02/20 VK/F-01/40</p>
 <p>3-308-R002</p>
 <p>3-888-R001</p>
 <p>VK/A-02/20 VK/A-01/40</p>



Range of application and temperature:

Reduction factors apply for the operating pressure with increasing temperature in accordance with DIN EN ISO 10380, e.g. at 100° C the 0.74 factor applies. Only conditionally suitable for use in a marine or coastal atmosphere. Corrosion resistance tested according to IEC 60068-2-52. UV-resistant. Increased service life and temperature resistance compared to rubber hose.

Materials and composition:

Full metal wall made of 1.4404 with outside wire sheathing made of stainless steel.
Supply length: max. 25 m

Fitting material: brass or stainless steel

For nominal diameter DN8 the clamping nut is made of stainless steel.

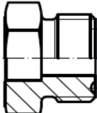
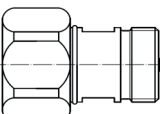
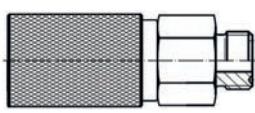
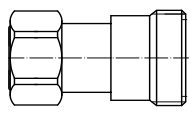
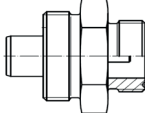
DN8 / DN20 / DN40 WIRE BRAIDED HOSE WITH ELBOW CONNECTIONS

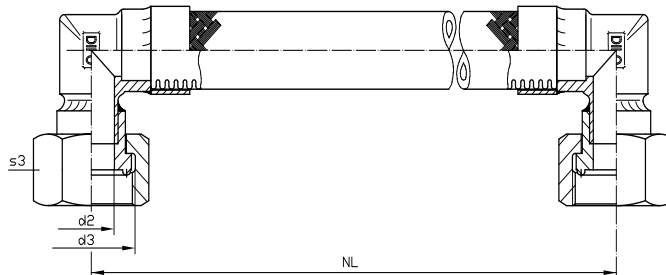


nominal pressure level	hose DN	minimum bending radius / onetime bending in mm	nominal bending radius / frequent movements in mm	fitting AD	fitting d2	fitting d3	fitting s3	Order No.* NL in mm
64	8	38	130	10	8	M20x1,5	24	SM0708L
40	20	70	170	22	19	M36x2	41	SM0720L

*Ordering example see page 99

Suitable connecting parts

 ML1-AD10-3 ML1-AD22-3
 VK/F-02/8 VK/F-02/20
 3-308-R002
 3-888-R001
 VK/A-02/20



Range of application and temperature:

Reduction factors apply for the operating pressure with increasing temperature in accordance with DIN EN ISO 10380, e.g. at 100° C the 0.74 factor applies. Only conditionally suitable for use in a marine or coastal atmosphere. Corrosion resistance tested according to IEC 60068-2-52. UV-resistant. Increased service life and temperature resistance compared to rubber hose.

Materials and composition:

Full metal wall made of 1.4404 with outside wire sheathing made of stainless steel.
Supply length: max. 25 m

Fitting material: brass or stainless steel

For nominal diameter DN8 the clamping nut is made of stainless steel.


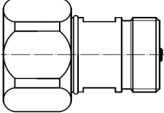
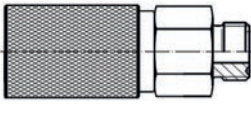
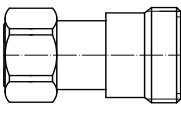
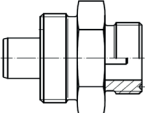
DN8 / DN20 / DN40
WIRE BRAIDED HOSE WITH PROTECTIVE HOSE

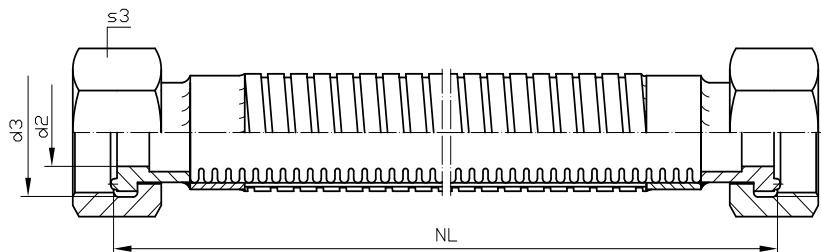


nominal pressure level	hose DN	minimum bending radius / onetime bending in mm	nominal blending radius / frequent movements in mm	fitting AD	fitting d2	fitting d3	fitting s3	Order No.* NL in mm
64	8	38	130	10	8	M20x1,5	24	SM1008L _____
40	20	70	170	22	19	M36x2	41	SM1020L _____
40	40	130	300	42	35	M56x2	65	SM1040L _____

*Ordering example see page 99

Suitable connecting parts

 <p>ML1-AD10-3 ML1-AD22-3 ML1-AD42-3</p>
 <p>VK/F-02/8 VK/F-02/20 VK/F-01/40</p>
 <p>3-308-R002</p>
 <p>3-888-R001</p>
 <p>VK/A-02/20 VK/A-01/40</p>



Range of application and temperature:

Reduction factors apply for the operating pressure with increasing temperature in accordance with DIN EN ISO 10380, e.g. at 100° C the 0.74 factor applies. Only conditionally suitable for use in a marine or coastal atmosphere. Corrosion resistance tested according to IEC 60068-2-52. UV-resistant. Increased service life and temperature resistance. Particularly robust against mechanical stress.

Materials and composition:

Full metal wall made of 1.4404 with outside wire sheathing made of stainless steel. Flexible protection hose and securely against rotation, particularly tensile and with high mechanical strength according to DIN EN ISO 15465.

Supply length: max. 25 m

Fitting material: brass or stainless steel

For nominal diameter DN8 the clamping nut is made of stainless steel.


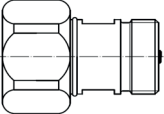
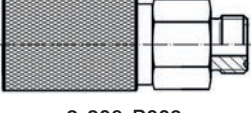
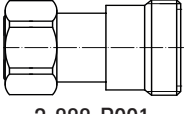
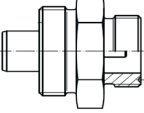
DN8 / DN20 / DN40 WIRE BRAIDED HOSE WITH HEAT SHRINK TUBING

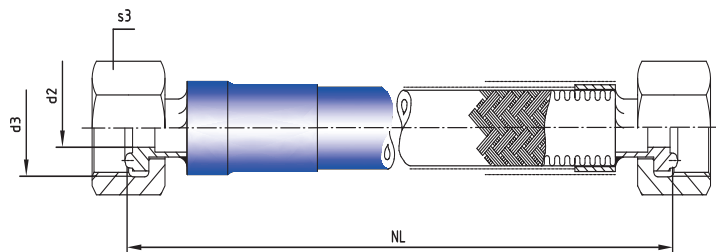


nominal pressure level	hose DN	minimum bending radius / onetime bending in mm	nominal bending radius / frequent movements in mm	fitting AD	fitting d2	fitting d3	fitting s3	Order No.* NL in mm
64	8	100	140	10	8	M20x1,5	24	SM1608L _____
40	20	180	220	22	19	M36x2	41	SM1620L _____

*Ordering example see page 99

Suitable connecting parts

 ML1-AD10-3 ML1-AD22-3 ML1-AD42-3
 VK/F-02/8 VK/F-02/20 VK/F-01/40
 3-308-R002
 3-888-R001
 VK/A-02/20 VK/A-02/40



Range of application and temperature:

Reduction factors apply for the operating pressure with increasing temperature in accordance with DIN EN ISO 10380, e.g. at 100° C the 0.74 factor applies. Suitable for corrosive environment. Exceed the corrosion resistance according to IEC 60068-2-52. Increased service life and temperature resistance.

Materials and composition:

Full metal wall made of 1.4404 with outside wire sheathing made of stainless steel, covered with UV-resistant plastic heat shrink tubing.
Supply length: max. 25 m

Fitting material:

Stainless steel


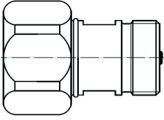
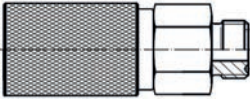
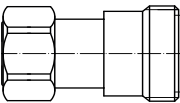
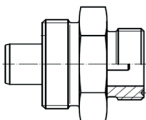
DN8 / DN20 / DN40
RUBBER HOSE

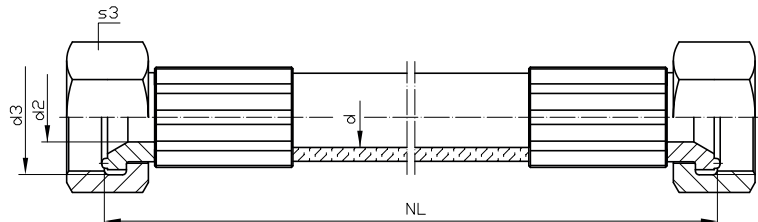


nominal pressure level	hose DN	hose d	bending radius in mm	fitting AD	fitting d2	fitting d3	fitting s3	Order No.* NL in mm
64	8	8	50	10	5,5	M20x1,5	24	GS0108L _____
50	20	19	180	22	15,5	M36x2	41	GS0120L _____
64	40	38	500	42	33	M56X2	65	GS0140L _____

*Ordering example see page 99

Suitable connecting parts

 <p>ML1-AD10-3 ML1-AD22-3 ML1-AD42-3</p>
 <p>VK/F-02/8 VK/F-02/20 VK/F-01/40</p>
 <p>3-308-R002</p>
 <p>3-888-R001</p>
 <p>VK/A-02/20 VK/A-01/40</p>



Range of application and temperature:

From -40 °C to +100 °C depending on medium (see DIN EN 853/854)

Materials and composition:

The hoses consist of an oil- and water-resistant inner layer of synthetic rubber and an oil- and weather-resistant rubber outer layer.

Fitting material:

The press nipple and clamping nut are made of brass.

For nominal diameter DN8 the clamping nut is made of stainless steel.

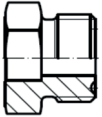
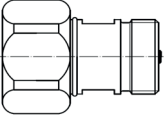
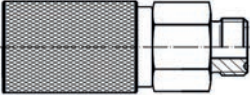
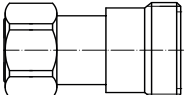
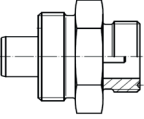
DN8 / DN20 RUBBER HOSE WITH ELBOW CONNECTION

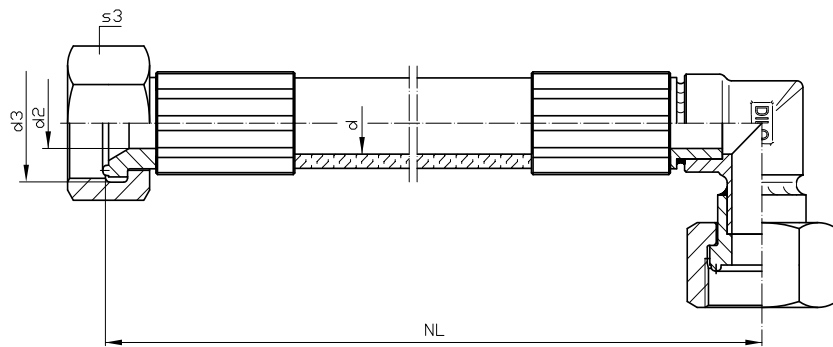


nominal pressure level	hose DN	hose d	bending radius in mm	fitting AD	fitting d2	fitting d3	fitting s3	Order No. * NL in mm
64	8	7,9	50	10	5,5	M20x1,5	24	GS0308L _____
50	20	19	240	22	15,5	M36x2	41	GS0320L _____

*Ordering example see page 99

Suitable connecting parts

 <p>ML1-AD10-3 ML1-AD22-3 ML1-AD42-3</p>
 <p>VK/F-02/8 VK/F-02/20</p>
 <p>3-308-R002</p>
 <p>3-888-R001</p>
 <p>VK/A-02/20</p>



Range of application and temperature:

From -40 °C to +100 °C depending on medium (see DIN EN 853/854)

Materials and composition:

The hoses consist of an oil- and water-resistant inner layer of synthetic rubber and an oil- and weather-resistant rubber outer layer.

Fitting material: Brass

The press nipple and clamping nut are made of brass.

For nominal diameter DN8 the clamping nut is made of stainless steel.

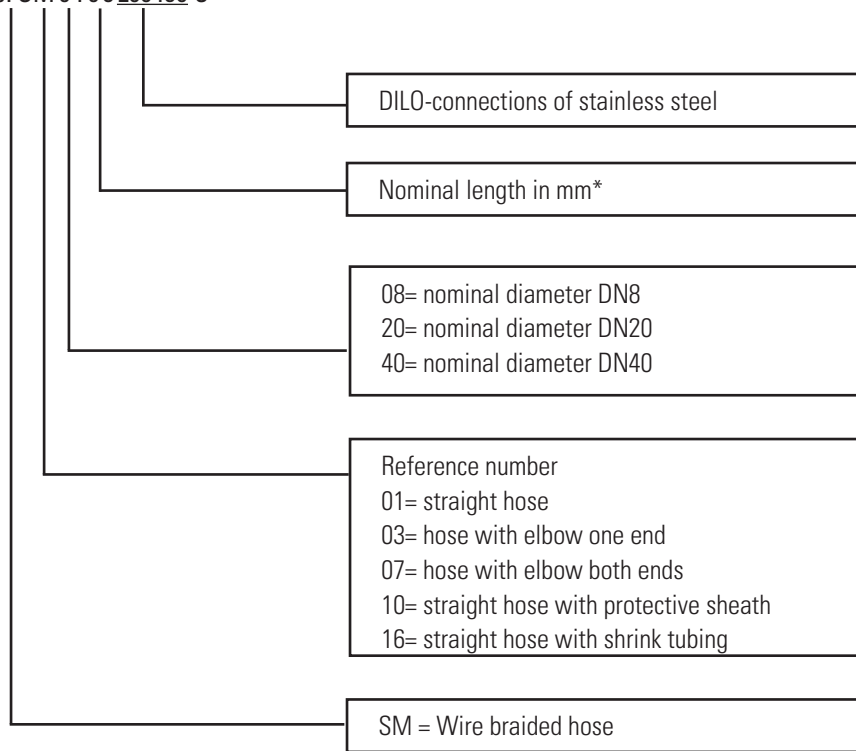
ORDERING EXAMPLES

WIRE BRAIDED HOSES AND RUBBER HOSES



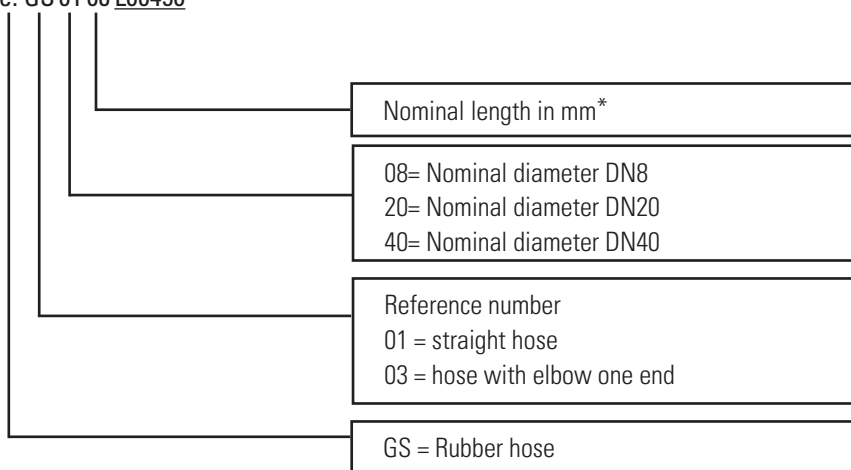
Wire braided hoses

Ordering example: SM 01 08 L00450 C



Rubber hoses

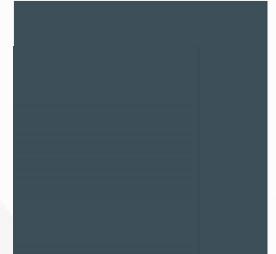
Ordering example: GS 01 08 L00450



*Rubber hoses are available in the following length increments:

Length	Length increment
< 1 m	50 mm
1 m bis < 5 m	100 mm
5 m bis < 10 m	500 mm
10 m bis < 20 m	1 m





Our product range comprises a large variety of transition pieces and adapters to establish connections between components with different nominal lengths. Thus DILO connecting couplings and hoses allow the comfortable adaption to other coupling systems on switchgear.

The suitable connecting parts must be ordered separately.

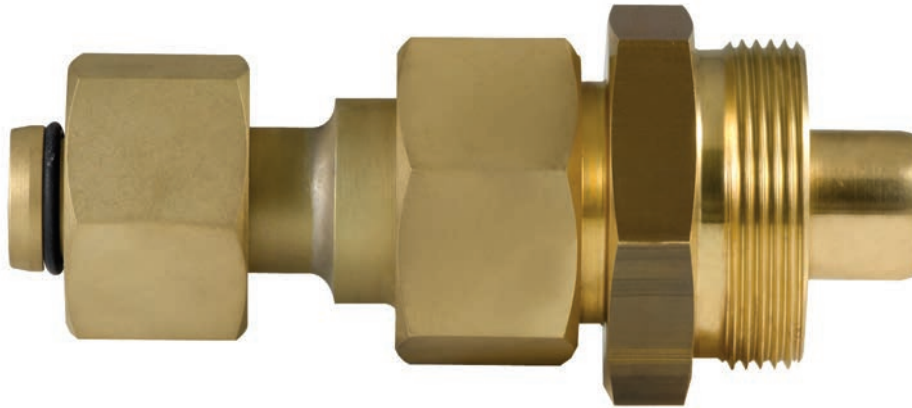
DILO transition pieces and adapters for pressures up to PN64

▪ 6-1033-R001/ 6-1058-R.../ SK-279-R... / 6-1027-R...	Adapter DILO-couplings DN20 ASEA / Magrini / Siemens/ Westinghouse.....	102 - 106
▪ 3-920-R002/ R001	Adapter - Hansen connection.....	107 - 108
▪ 3-353-R005/ R006	Adapter DILO DN8 - Michelin valve.....	109 - 110
▪ 6-1059-R.../ 6-1203-R...	Adapter with flange coupling on both ends.....	111
▪ K022R02	Tee piece with DILO couplings.....	112
▪ 3-351-R001 P	Screw-in stub.....	113
▪ SK-386 T/ 3-240-R.../ 3-251-R001/ 3-314-R001	Transition pieces.....	114 - 117
▪ 3-227-R001/ 3-311-R001/ 3-984-R001	Intermediate pieces.....	118
▪ 3-816-R001/ R002/ R003 / R005	Transition pieces.....	119 - 122
▪ K018-R02/ R06/ 3-717-R.../K018R07/ K018R..	Angle pieces.....	123 - 127
▪ K020R..	Tee pieces.....	128 - 129
▪ 3-718-R006/R036	Distributor.....	130 - 131
▪ 3-1026-R002	Tubings.....	132

PN64 DN20
ADAPTER DILO COUPLING DN20 -
ASEA CONNECTION

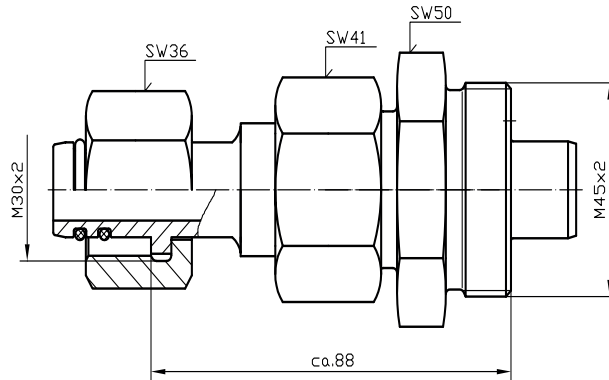
Order No.: 6-1033-R001

Material: Brass

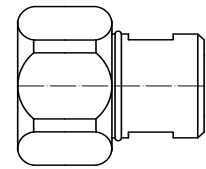


Suitable connecting parts

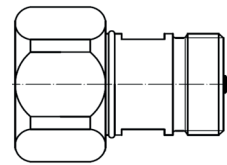
ASEA connection



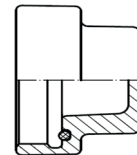
Suitable connecting parts



SK-282-R001



VK/F-02/20

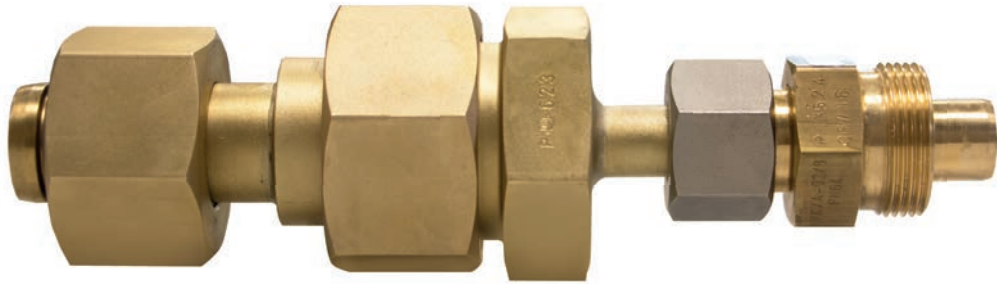


VK/KN-04/20

PN64 DN8
 ADAPTER DILO COUPLING DN8 -
 ASEA CONNECTION

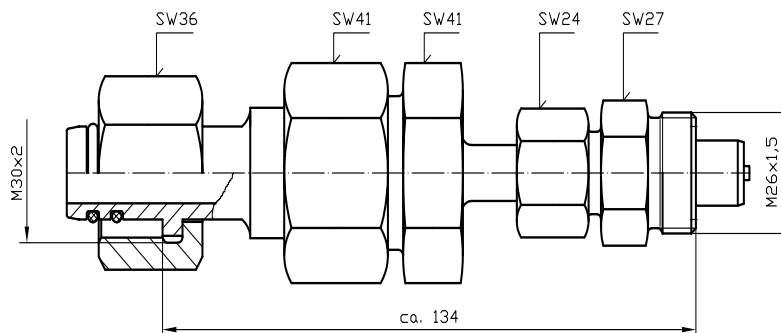


Order No.: 6-1033-R003
 Material: Brass

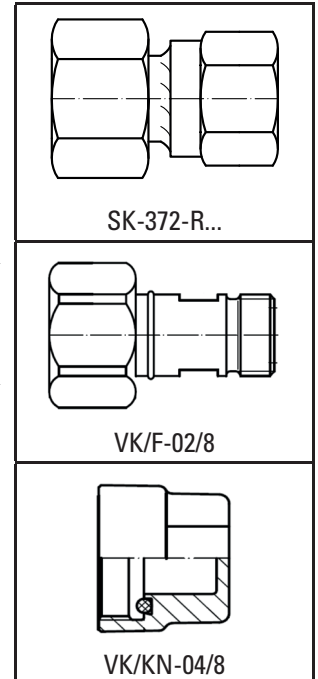


Suitable connecting parts

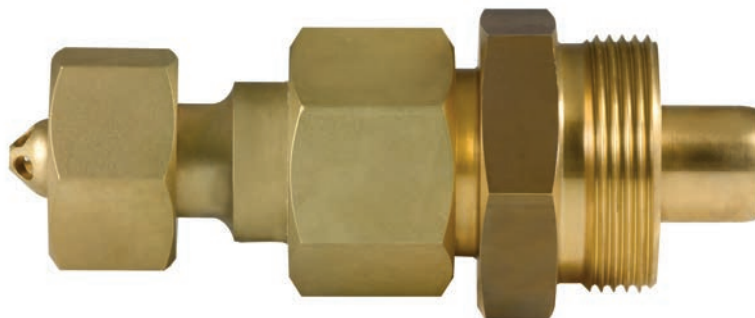
ASEA connection



Suitable connecting parts



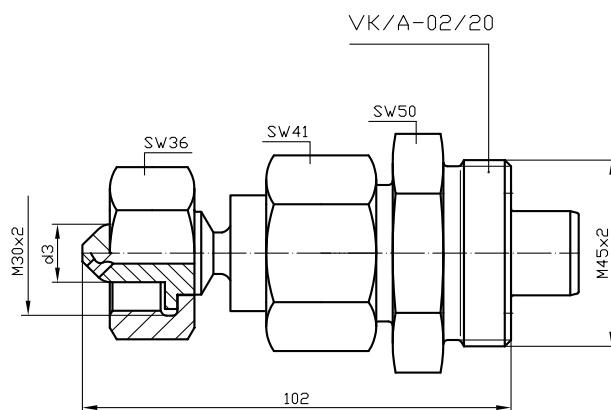
PN64 DN20
ADAPTER DILO COUPLING DN20 -
MAGRINI CONNECTION



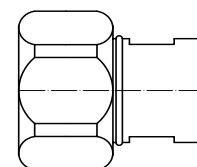
d 3	Order No.	Material
Ø 14	6-1058-R001	Brass
Ø 16	6-1058-R002	Brass

Suitable connecting parts

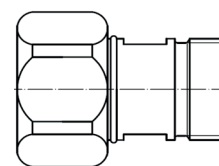
Magrini connection



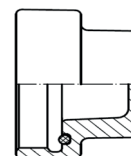
Suitable connecting parts



SK-282-R001

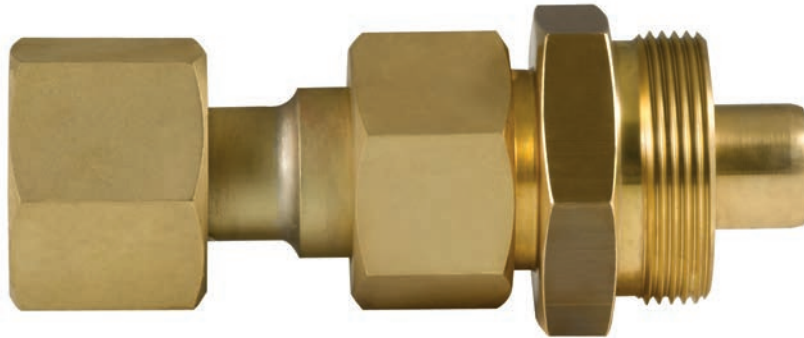


VK/F-02/20



VK/KN-04/20

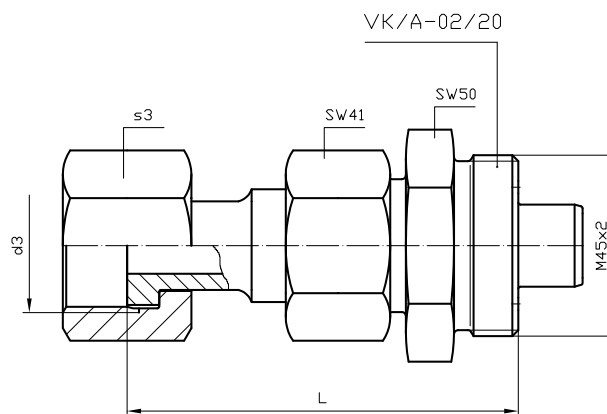
PN64 DN8
 ADAPTER DILO COUPLING DN20 -
 SIEMENS CONNECTION



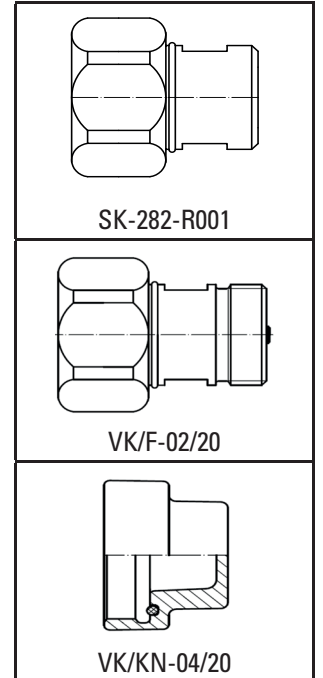
d3	L	S3	Order No.	Material
G 3/4	97	32	SK-279-R001 P	Brass
G 1	98	41	SK-279-R002 P	Brass
G 1 1/4	93	50	SK-279-R003 P	Brass

Suitable connecting parts

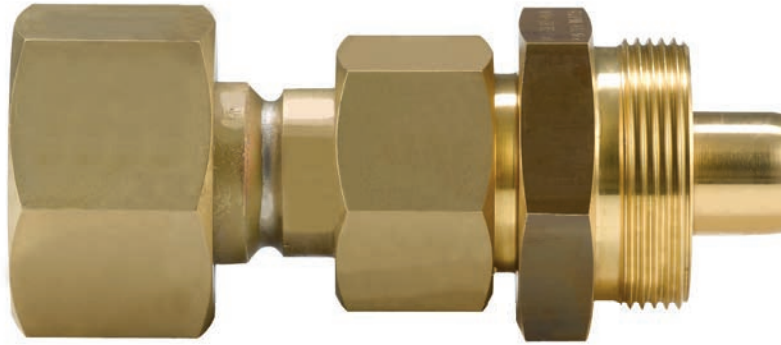
Siemens connection



Suitable connecting parts



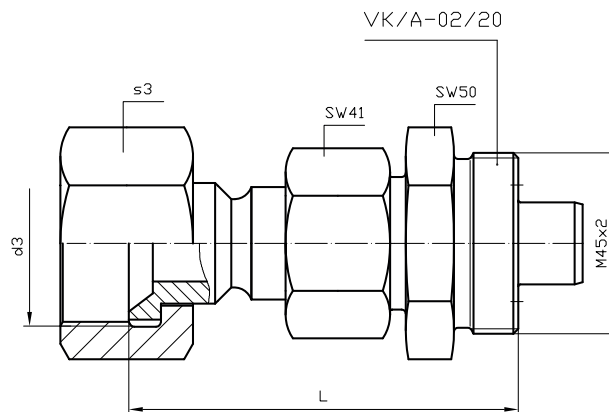
PN64 DN20
ADAPTER DILO COUPLING DN20 -
WESTINGHOUSE CONNECTION



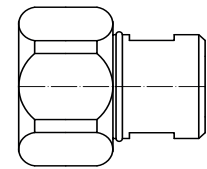
d3	L	S3	Order No.	Material
1 5/8 - 12UN	97	50	6-1027-R001	Brass
1 5/16 - 12UN	95	41	6-1027-R002	Brass
1 1/16 - 12UN	90	32	6-1027-R003	Brass

Suitable connecting parts

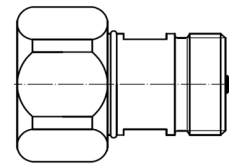
Westinghouse connection



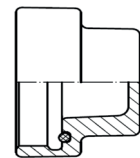
Suitable connecting parts



SK-282-R020



VK/F-02/20

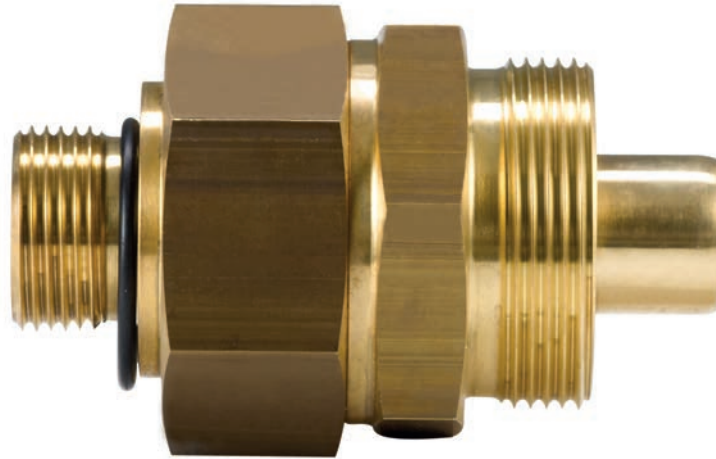


VK/KN-04/20

■ PN64 DN20
 ADAPTER DILO COUPLING DN20 -
 HANSEN CONNECTION

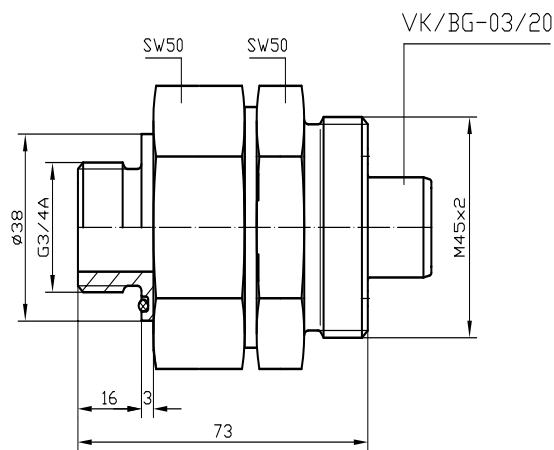


Order No.: 3-920-R002 P
 Material: Brass



Suitable connecting parts

Hansen connection
G 3/4 A



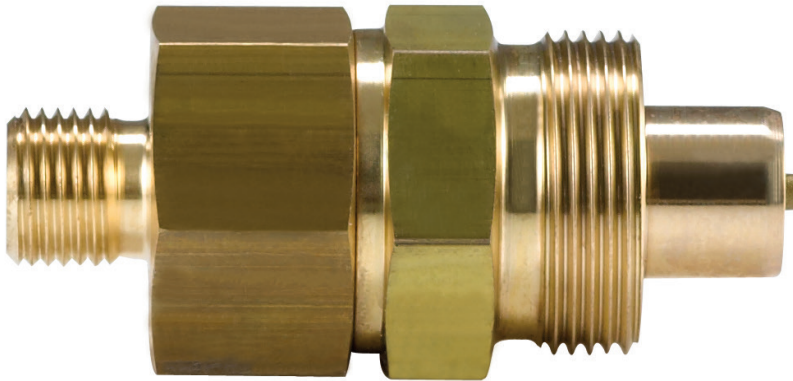
Suitable connecting parts

<p>SK-282-R020</p>
<p>VK/F-02/20</p>
<p>VK/KN-04/20</p>

PN64 DN8
ADAPTER DILO COUPLING DN8 -
HANSEN CONNECTION

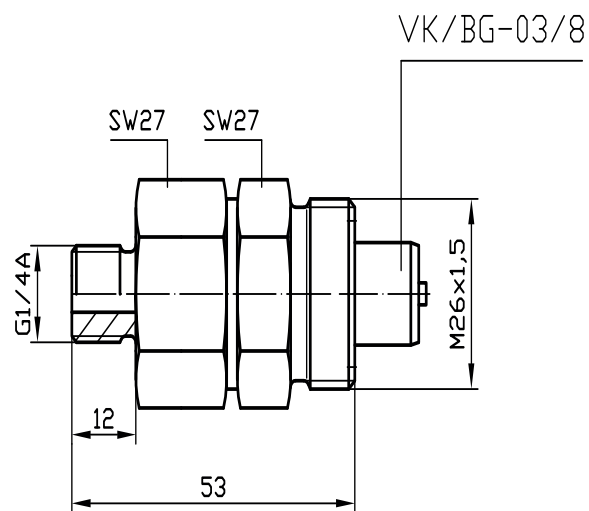
Order No.: 3-920-R001 P

Material: Brass

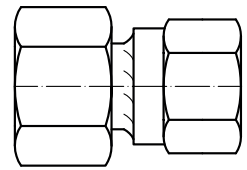


Suitable connecting parts

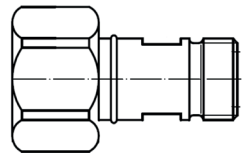
Hansen connection
G 1/4 A



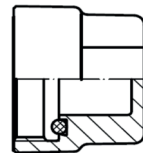
Suitable connecting parts



SK-372-R...



VK/F-02/8

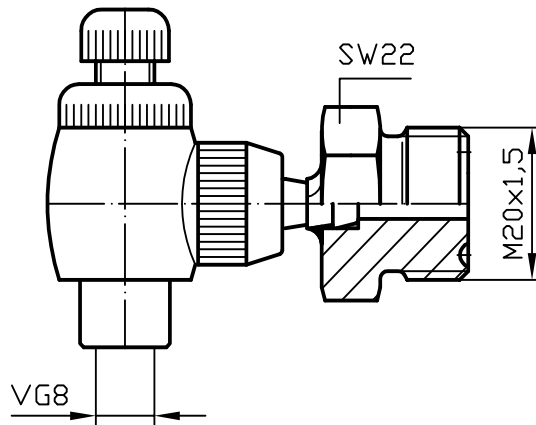
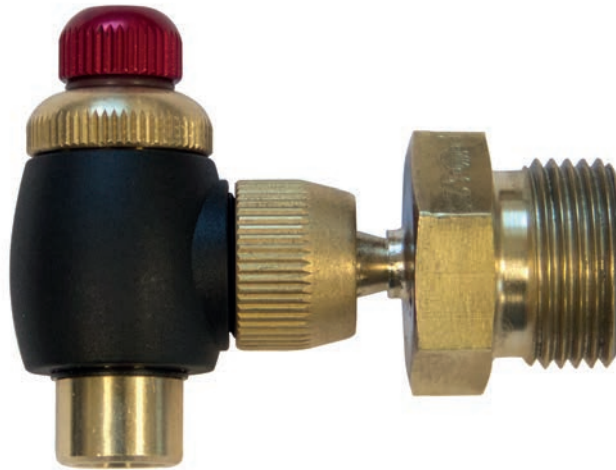


VK/KN-04/8

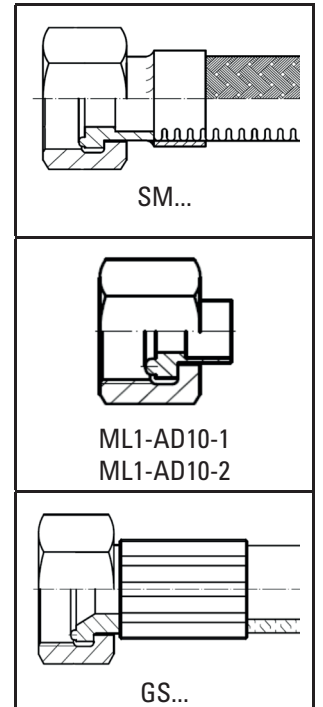
PN64 DN8
 ADAPTER DILO DN8 - MICHELIN VALVE



Order No.: 3-353-R005 P
 Material: Brass



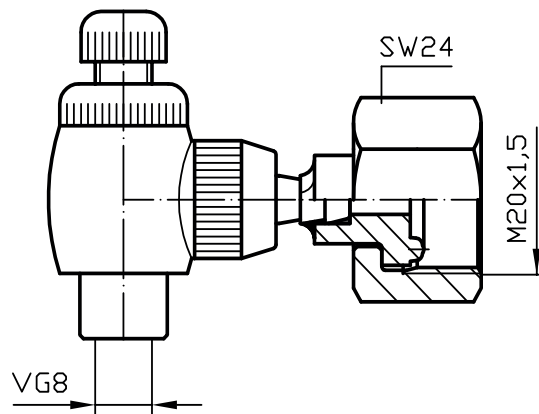
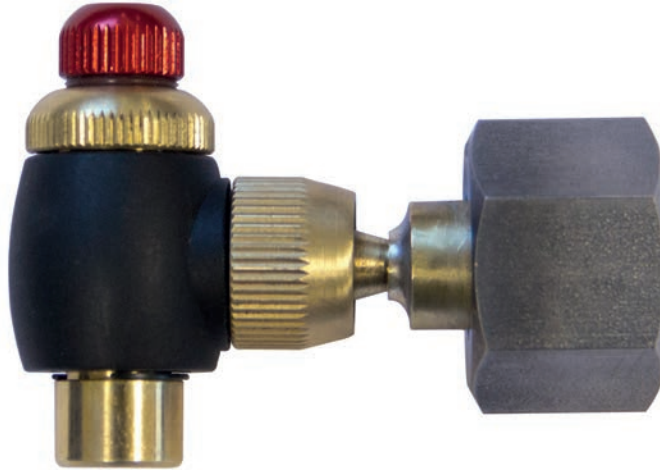
Suitable connecting parts



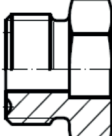
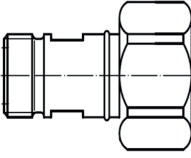
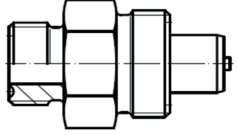
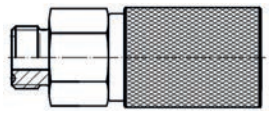
PN2 DN8
ADAPTER DILO DN8 - MICHELIN VALVE

Order No.: 3-353-R006 P

Material: Brass



Suitable connecting parts

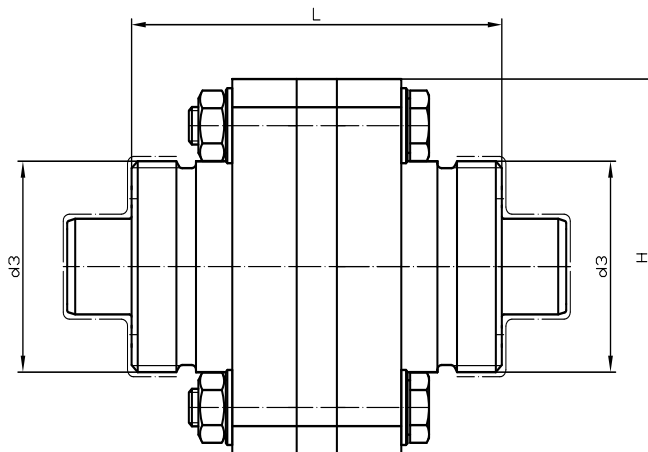
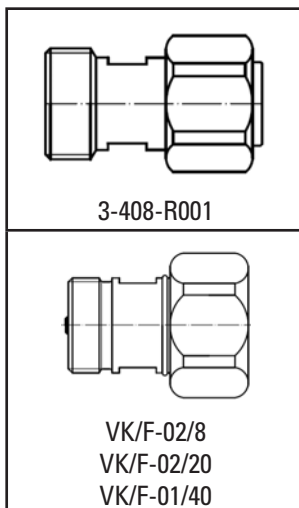

ML1-AD10-3

VK/F-02/8

VK/A-02/8

3-308-R002

ADAPTER WITH FLANGE COUPLING ON BOTH ENDS



DN	for coupling tongue part	d3	L	H	PN	Order No.	Material
6	3-408-R101	M24x1,5	92	Ø 40	10	6-1059-R014	AL
8	VK/F-02/8	M26x1,5	74	Ø 40	64	6-1059-R012	AL
20	VK/F-02/20	M45x2	92	Ø 80	64	6-1059-R011	AL
40	VK/F-01/40	M76x2	102	Ø 110	16	6-1203-R001	Stainless steel

Suitable connecting parts on both ends



PN64 DN8 / DN20
TEE PIECE WITH DILO COUPLINGS

Order No.: K022R02
 Material: AL

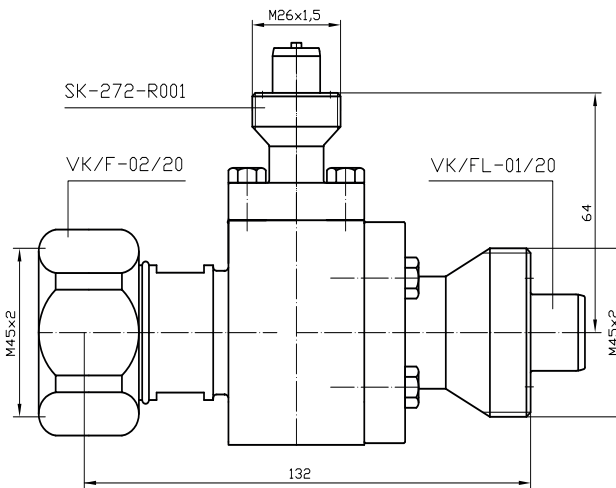


Suitable connecting parts

3-777-R001
VK/FL-01/20
3-685-R001
VK/A-02/20
VK/B-03/20 VK/BG-03/20

Suitable connecting parts

SK-372-R...	VK/F-02/8	VK/KN-04/8
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Suitable connecting parts

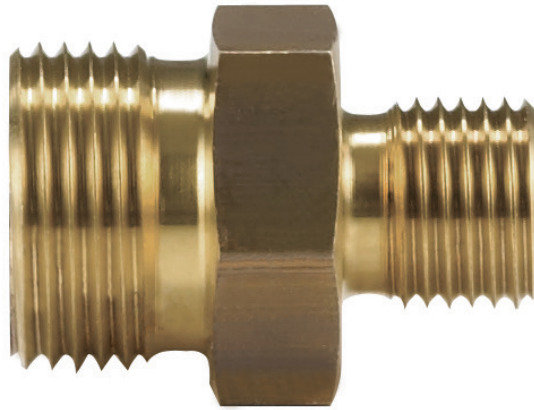
SK-282-R001
VK/F-02/20
VK/KN-04/20

Other versions are available.

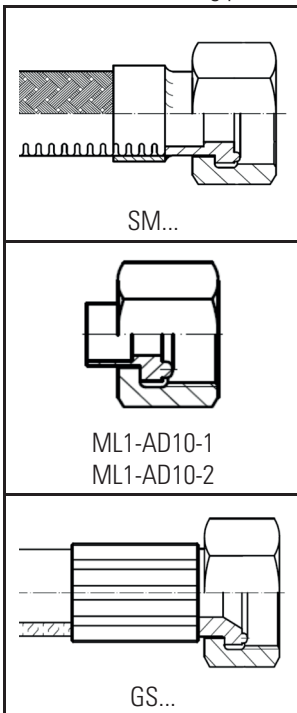
PN64 DN8
SCREW-IN STUB



Order No.: 3-351-R001 P
Material: Brass

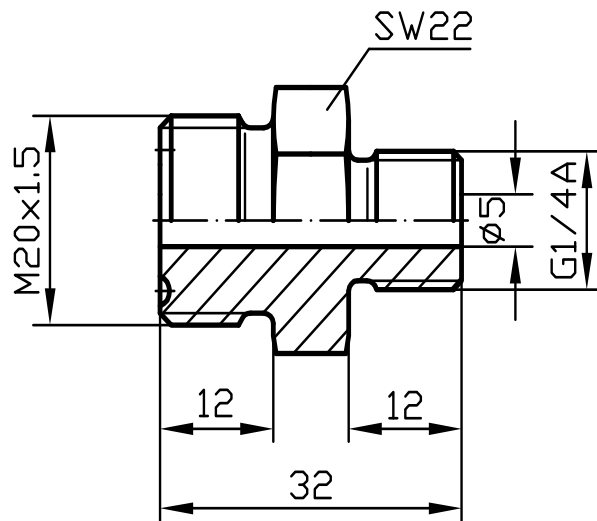


Suitable connecting parts



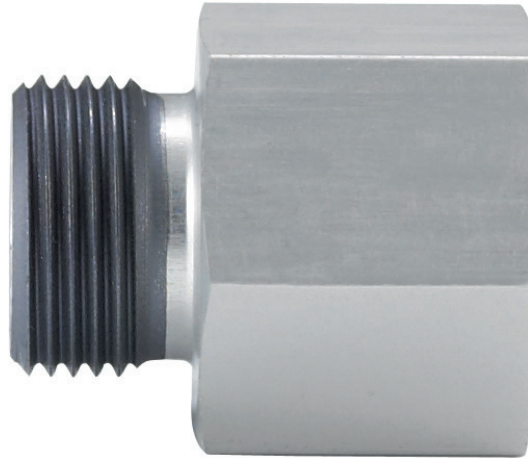
Suitable connecting parts

internal thread G 1/4

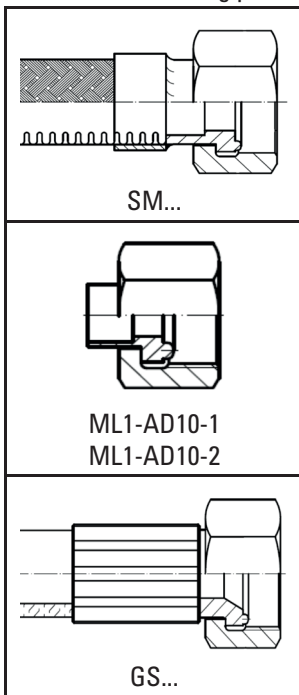


PN64 DN8
TRANSITION PIECE DN8

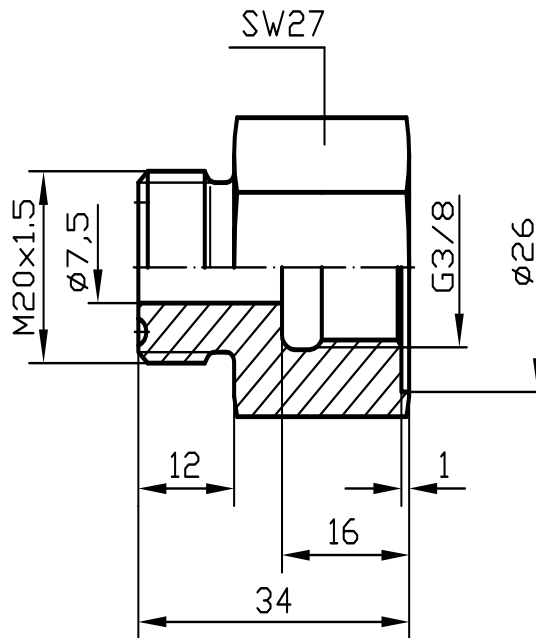
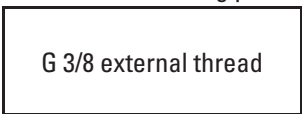
Order No.: SK-386 T
Material: AL



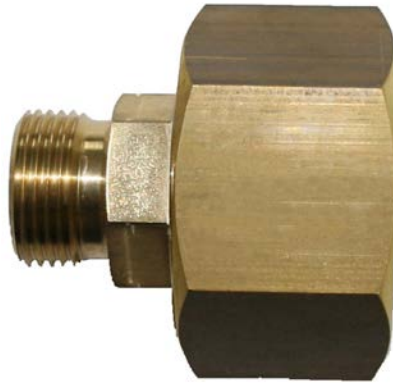
Suitable connecting parts



Suitable connecting parts

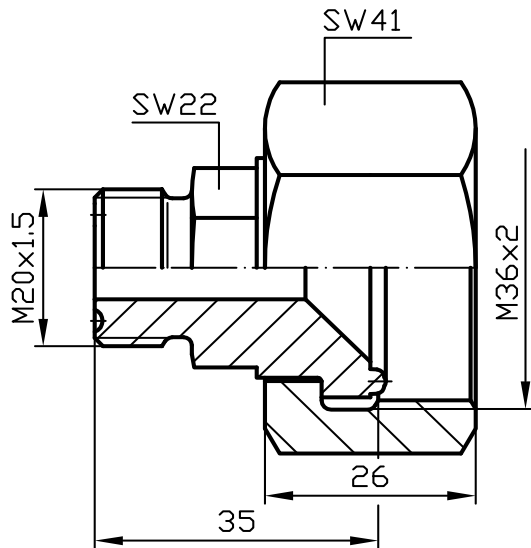
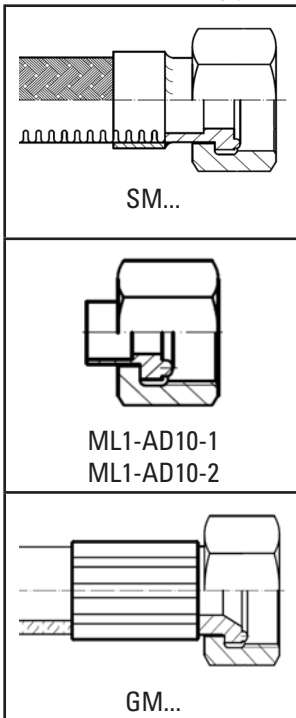


PN64 DN8 / DN20
TRANSITION PIECE

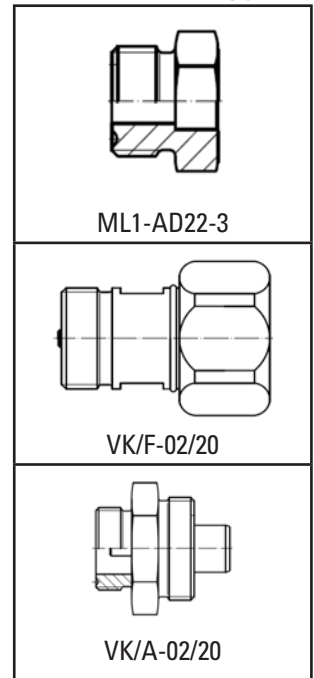


Order No.	Material
3-240-R001 P	Brass
3-240-R002 C	Stainless steel

Suitable connecting parts



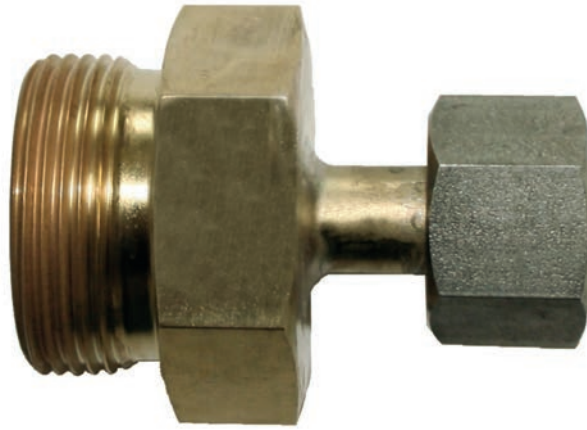
Suitable connecting parts



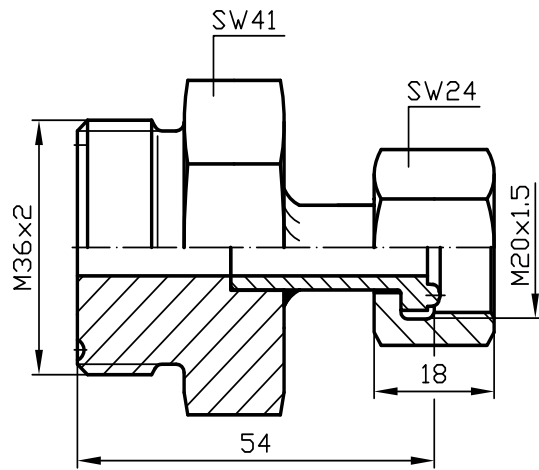
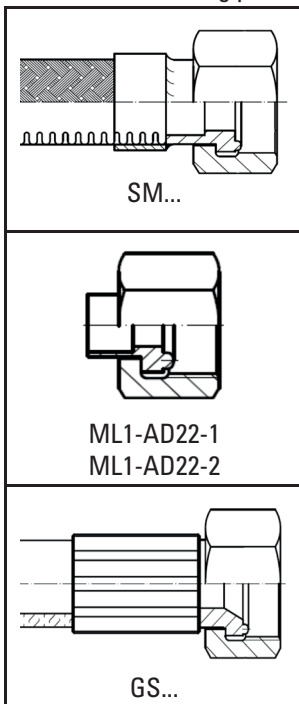
PN64 DN20 / DN8
TRANSITION PIECE

Order No.: 3-251-R001 P

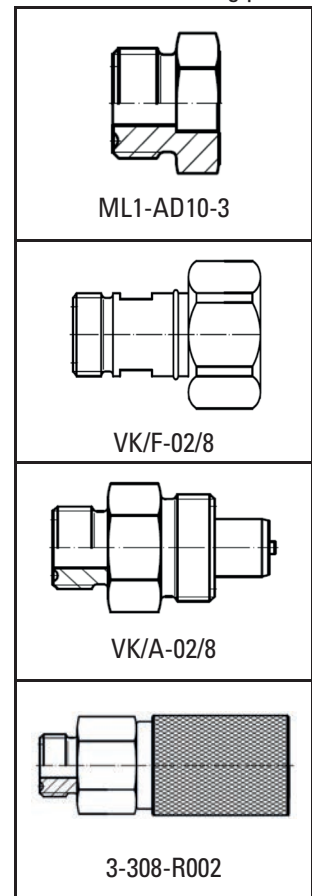
Material: Brass



Suitable connecting parts



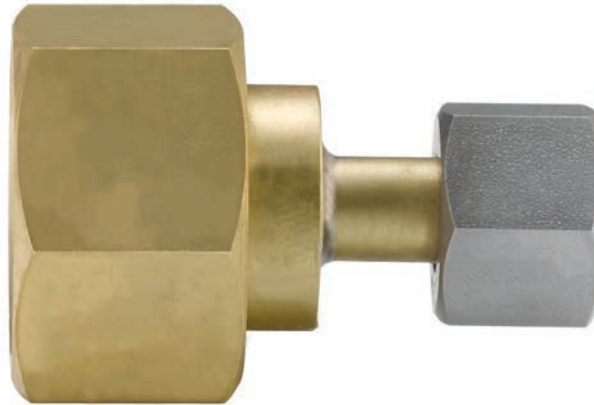
Suitable connecting parts



PN64 DN20 / DN8
TRANSITION PIECE

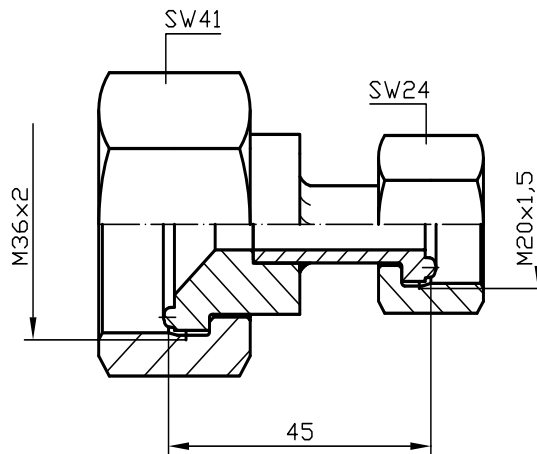


Order No.: 3-314-R001 P
Material: Brass



Suitable connecting parts

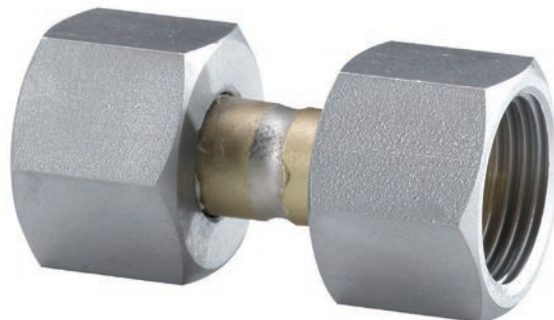
ML1-AD22-3
VK/F-02/20
VK/A-02/20



Suitable connecting parts


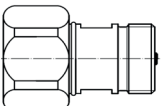
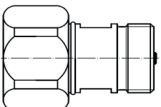
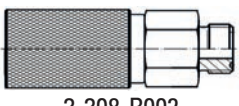
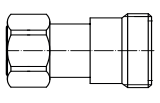
ML1-AD10-3
VK/F-02/8
VK/A-02/8
3-308-R002

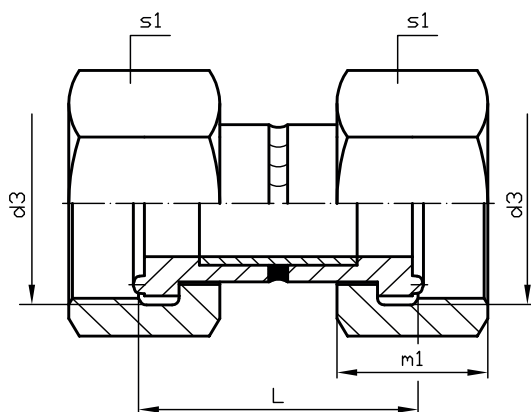
PN64 DN8 / DN20 / DN40
INTERMEDIATE PIECE



AD	d3	L	m1	s1	Order No.	Material
10	M20x1,5	32	18	24	3-227-R001 P	Brass
22	M36x2	48	26	41	3-311-R001 P	Brass
42	M56x2	58	29	65	3-984-R001 P	Brass

Suitable connecting parts

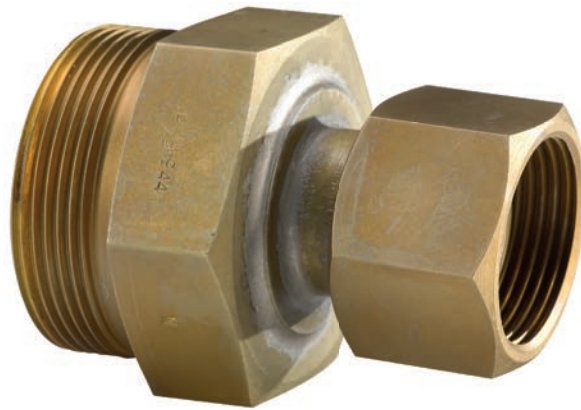
 <p>ML1-AD10-3 ML1-AD22-3 ML1-AD42-3</p>
 <p>VK/F-02/8 VK/F-02/20 VK/F-01/40</p>
 <p>VK/A-02/8 VK/A-02/20 VK/A-01/40</p>
 <p>3-308-R002 (only for 3-227-R001 P)</p>
 <p>3-888-R001 (only for 3-311-R001 P)</p>



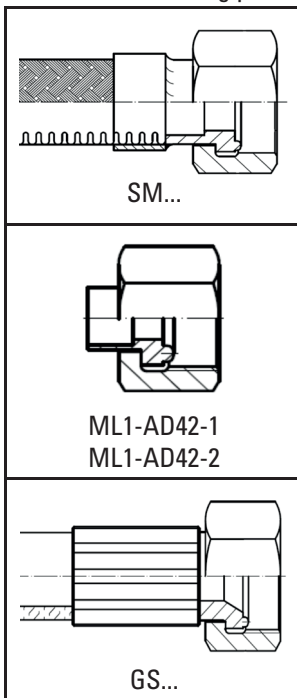
PN64 DN40 / DN20
TRANSITION PIECE



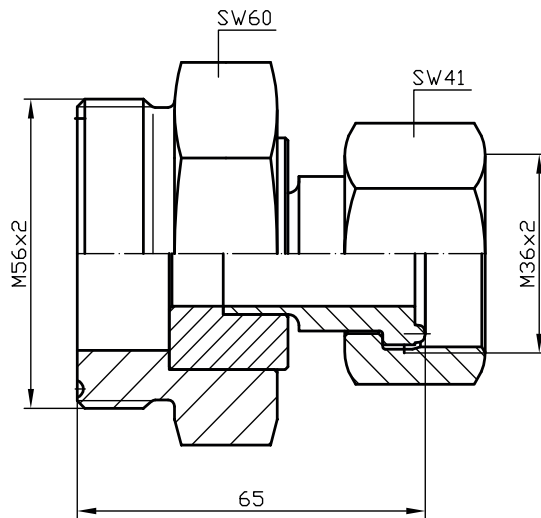
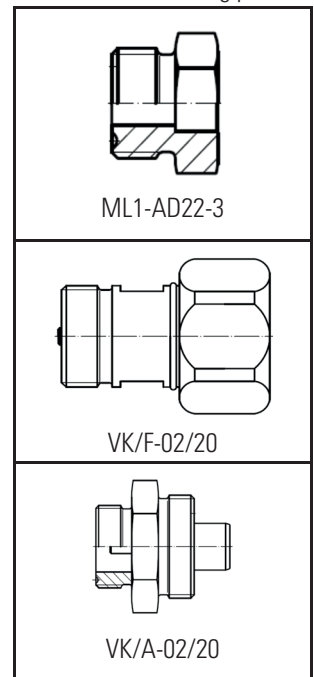
Order No.: 3-816-R001 P
Material: Brass



Suitable connecting parts



Suitable connecting parts



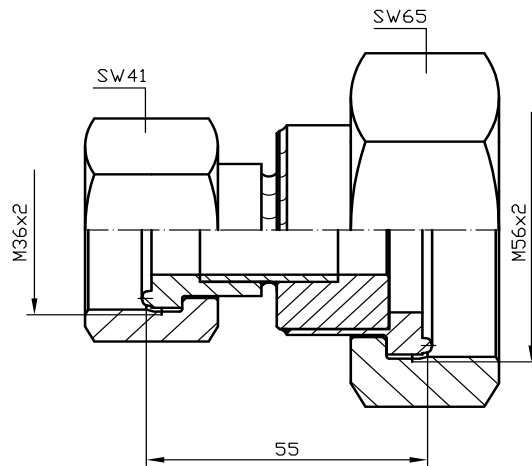
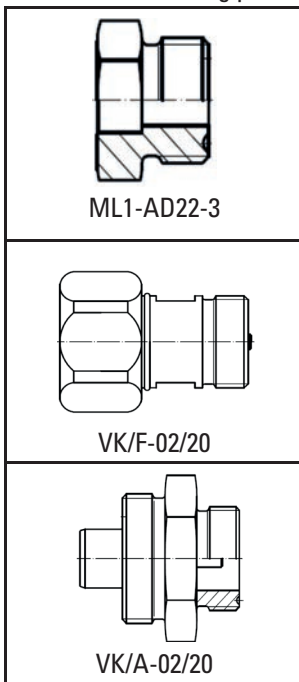
PN64 DN40 / DN20
TRANSITION PIECE

Order No.: 3-816-R002

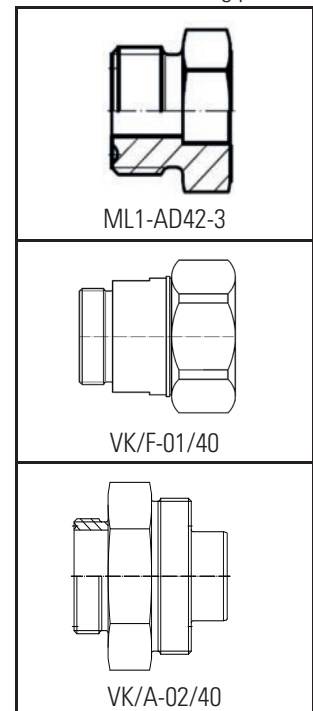
Material: Brass



Suitable connecting parts



Suitable connecting parts



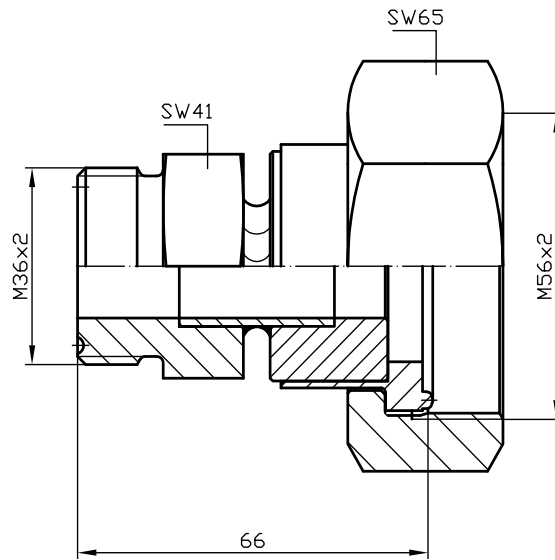
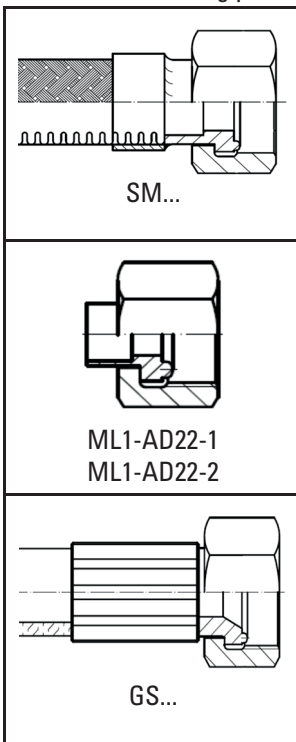
PN64 DN40 / DN20
TRANSITION PIECE



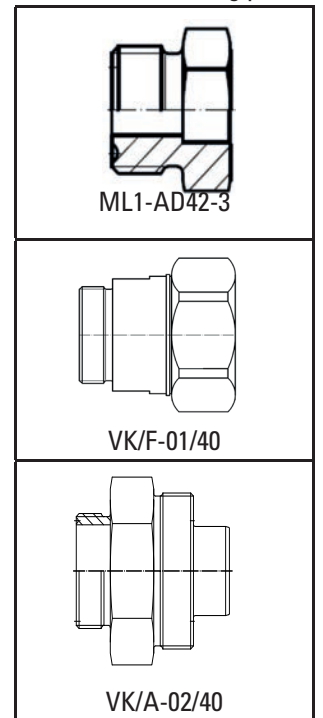
Order No.: 3-816-R003
Material: Brass



Suitable connecting parts



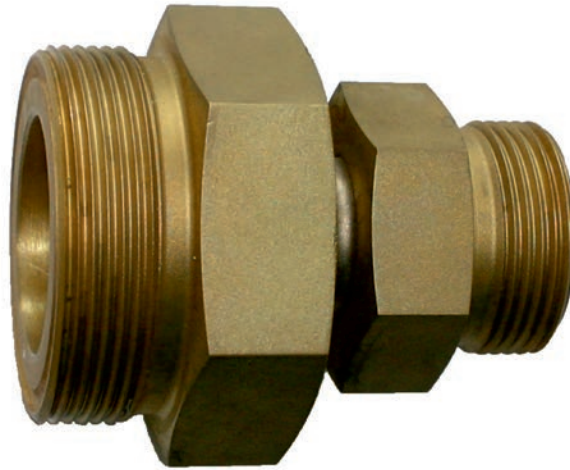
Suitable connecting parts



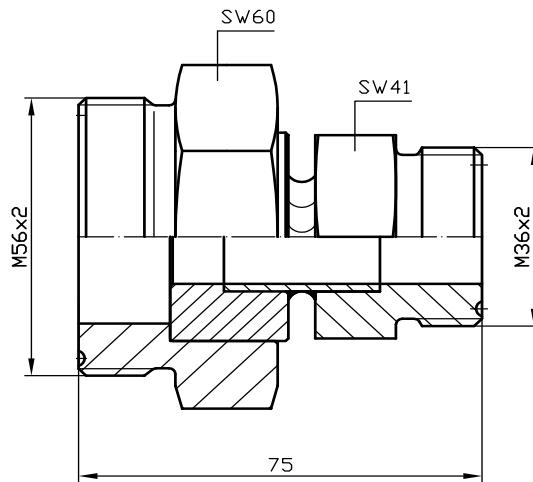
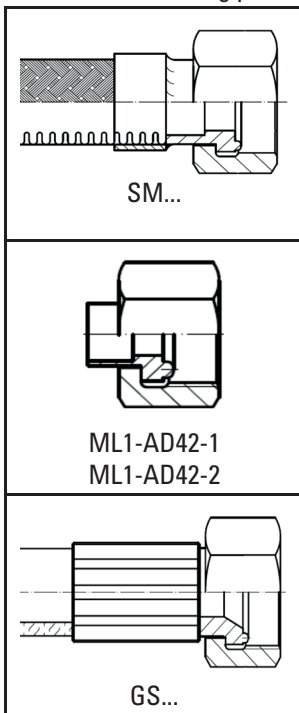
PN64 DN40 / DN20
TRANSITION PIECE

Order No.: 3-816-R005 P

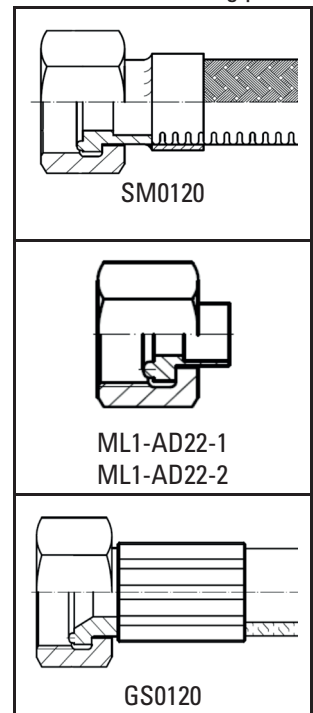
Material: Brass



Suitable connecting parts



Suitable connecting parts



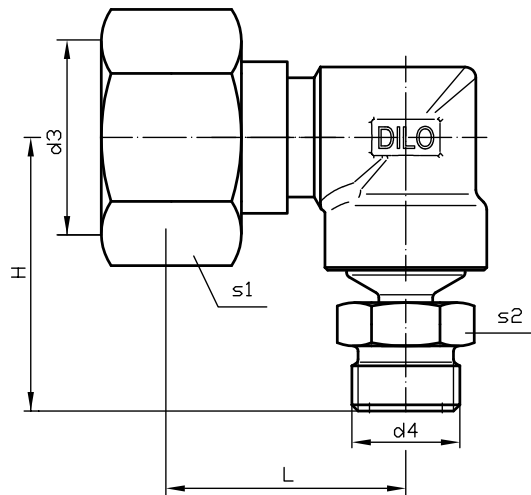
PN64 DN 8 / DN20 / DN40
ANGLE TRANSITION PIECE



AD	d3	d4	L	H	s1	s2	Order No.	Material
10/22	M36x2	M20x1,5	45	51	41	22	K018R02	Brass
22/42	M56x2	M36x2	64	81	65	41	K018R06	Brass

Suitable connecting parts

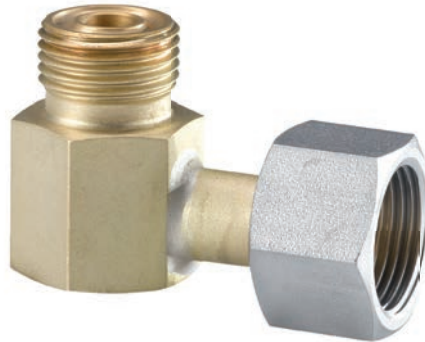
<p>ML1-AD22-3 ML1-AD42-3</p>
<p>VK/F-02/20 VK/F-01/40</p>
<p>VK/A-02/20 VK/A-02/40</p>
<p>3-888-R001</p>



Suitable connecting parts

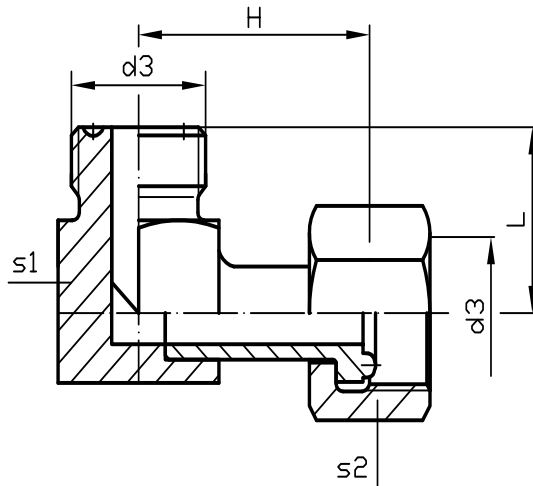
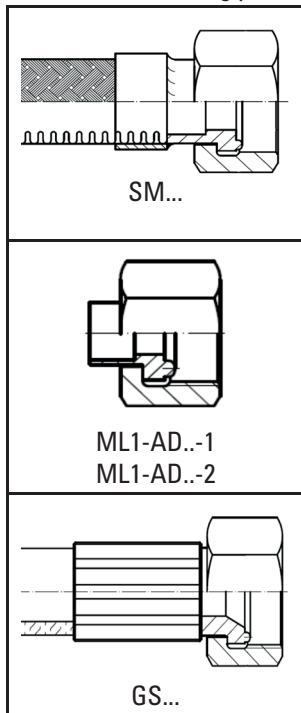
<p>SM...</p>
<p>ML1-AD..-1 ML1-AD..-2</p>
<p>GS...</p>

PN64 DN8 / DN20 / DN40
ANGLE PIECE

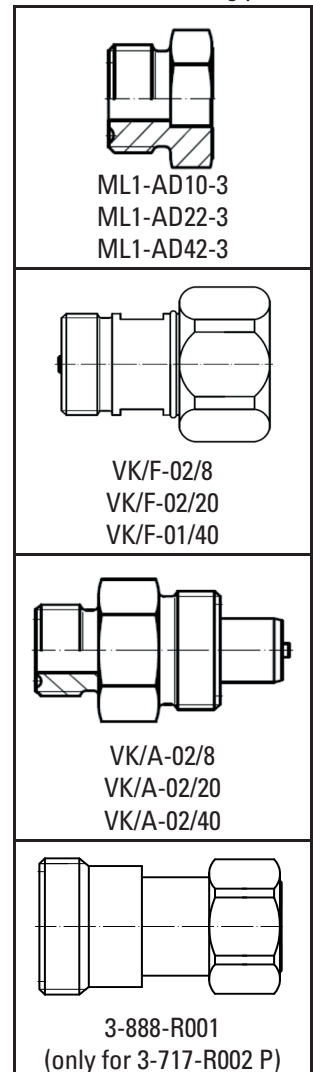


AD	d3	L	H	s1	s2	Order No.	Material
10	M20x1,5	32	31	22	24	3-717-R001 P	Brass
22	M36x2	48	46	36	41	3-717-R002 P	Brass
42	M56x2	58	65	60	65	K018R07	Brass

Suitable connecting parts



Suitable connecting parts

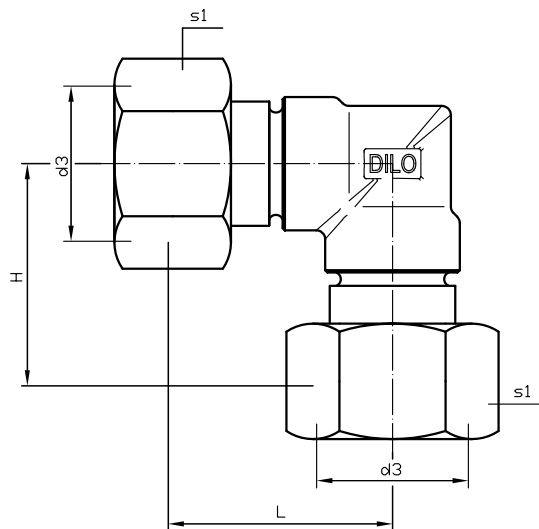



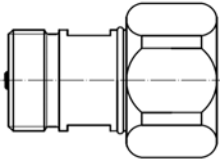
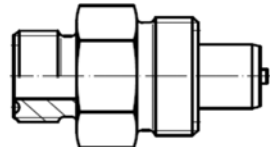
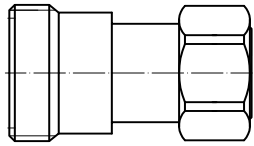
PN64 DN 8 / DN20 / DN40
ANGLE PIECE



AD	d3	L	H	s1	Order No.	Material
10	M20x1,5	32	32	24	K018R10	Brass
22	M36x2	50	50	41	K018R20	Brass
42	M56x2	65	80	65	K018R32	Brass

suitable connecting parts

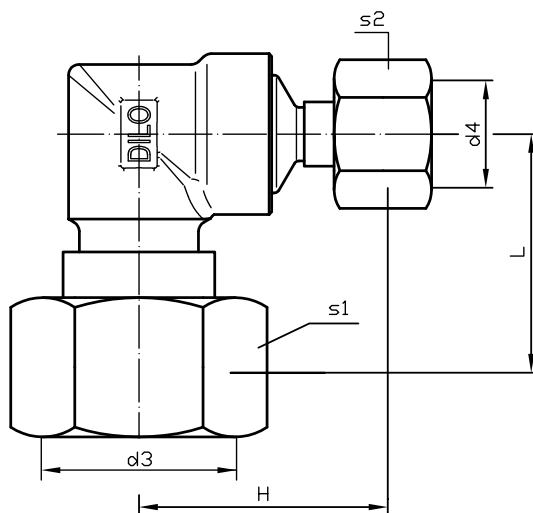


 <p>ML1-AD10-3 ML1-AD22-3 ML1-AD42-3</p>
 <p>VK/F-02/8 VK/F-02/20 VK/F-01/40</p>
 <p>VK/A-02/8 VK/A-02/20 VK/A-02/40</p>
 <p>3-888-R001 (only for K018R20)</p>

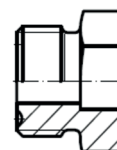
PN64 DN8 / DN20 / DN40
ANGLE TRANSITION PIECE



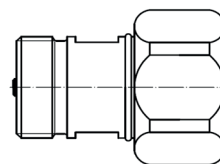
AD	d3	d4	L	H	s1	s2	Order No.	Material
10/22	M36x2	M20x1,5	45	46	41	24	K018R27	Brass
22/42	M56x2	M36x2	64	72	65	41	K018R31	Brass



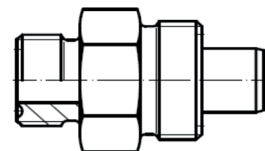
Suitable connecting parts



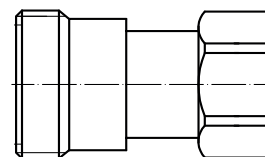
ML1-AD10-3
 ML1-AD22-3
 ML1-AD42-3



VK/F-02/8
 VK/F-02/20
 VK/F-01/40



VK/A-02/8
 VK/A-02/20
 VK/A-02/40



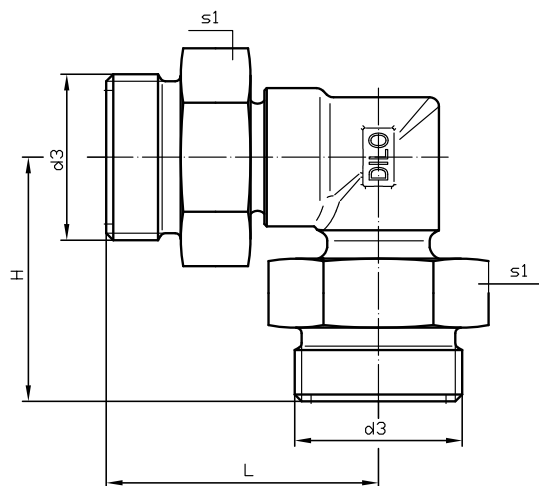
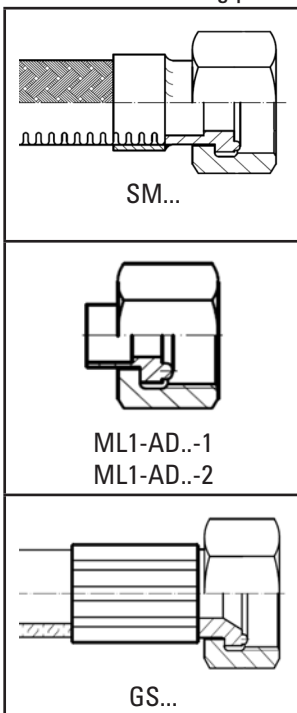
3-888-R001

PN64 DN 8 / DN20 / DN40
ANGLE PIECE



AD	d3	L	H	s1	Order No.	Material
10	M20x1,5	38	34	22	K018R41	Brass
22	M36x2	59	53	41	K018R40	Brass
42	M56x2	85	73	60	K018R29	Brass

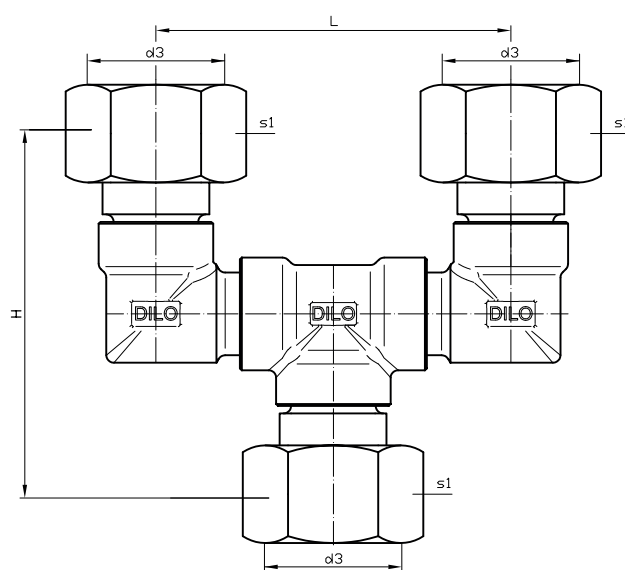
Suitable connecting parts



PN64 DN8 / DN20
TEE PIECE



AD	d3	L	H	s1	Order No.	Material
10	M20x1,5	56	64	24	K020R66	Brass
22	M36x2	93	98	41	K020R14	Brass



Suitable connecting parts

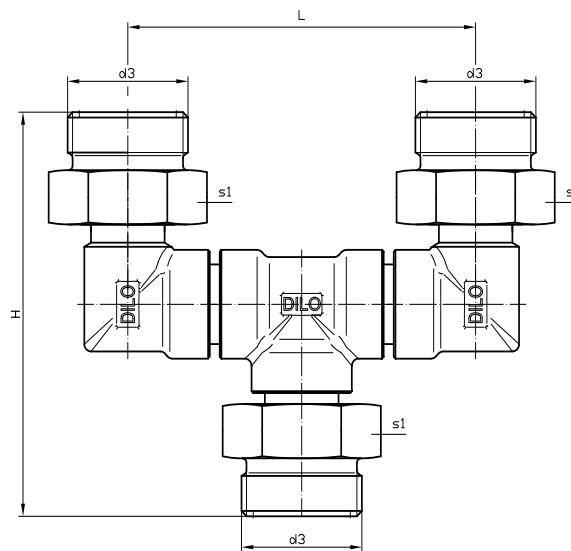
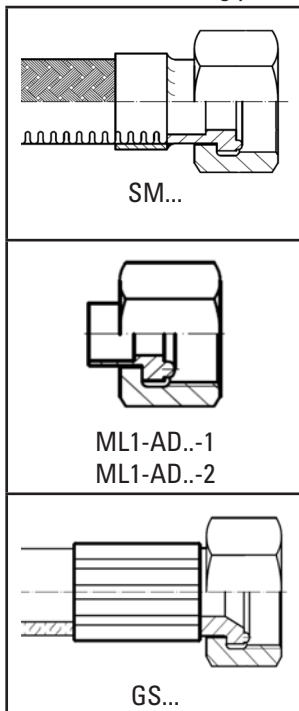
<p>ML1-AD10-3 ML1-AD22-3</p>
<p>VK/F-02/8 VK/F-02/20</p>
<p>VK/A-02/8 VK/A-02/20</p>
<p>3-308-R002 (only for K020R66)</p>
<p>3-888-R001 (only for K020R14)</p>

PN64 DN 8 / DN20
TEE PIECE



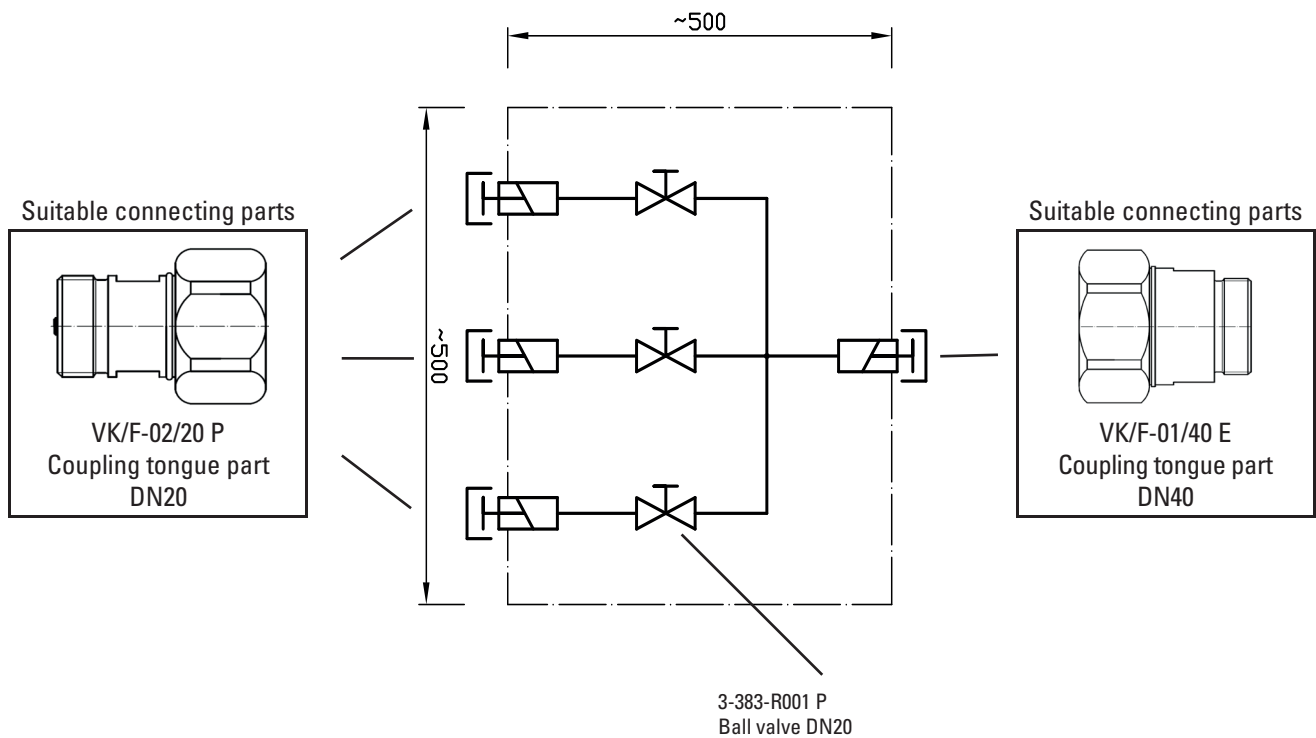
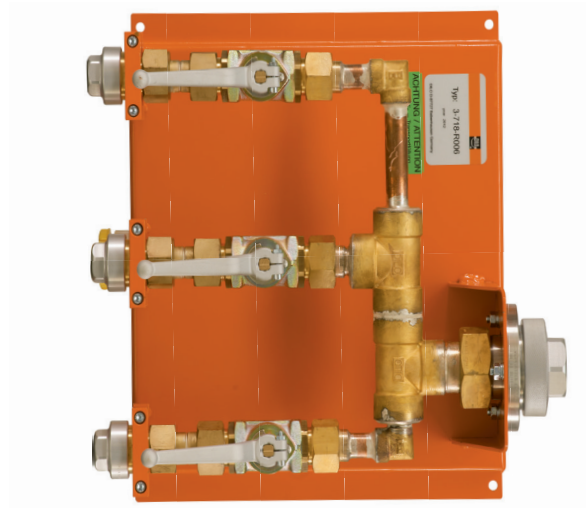
AD	d3	L	H	s1	Order No.	Material
10	M20x1,5	56	75	22	K020R26	Brass
22	M36x2	104	112	41	K020R59	Brass

Suitable connecting parts



3 X DN20 / 1 X DN40 DISTRIBUTOR

Order No.: 3-718-R006

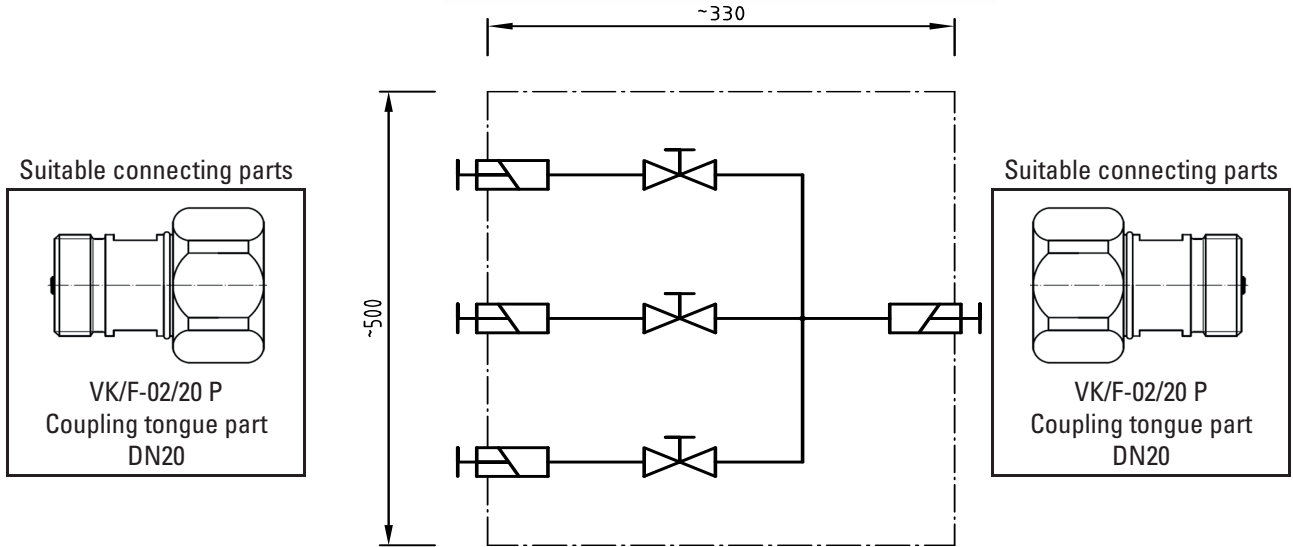
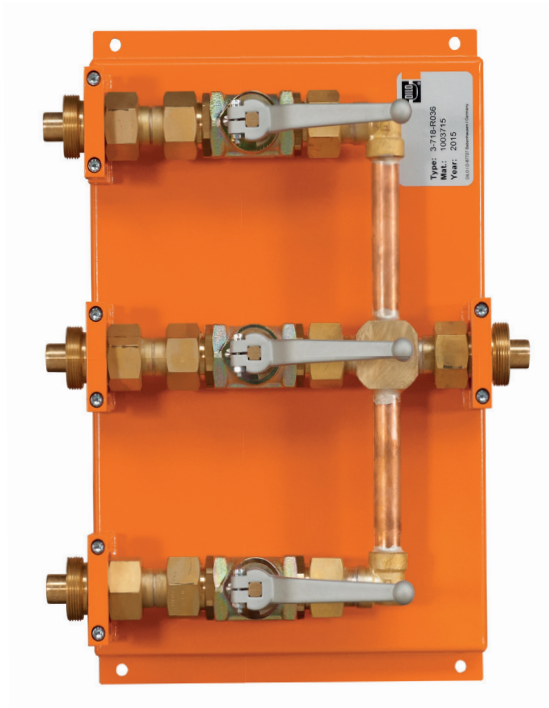


Other versions are available.

4 X DN20
DISTRIBUTOR



Order No.: 3-718-R036



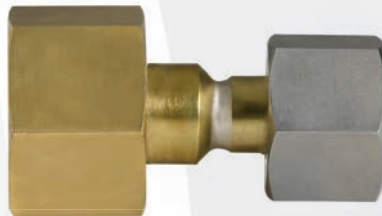
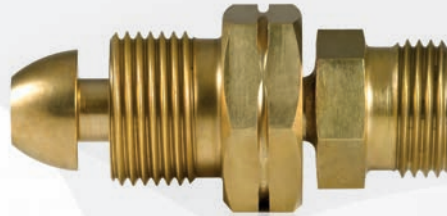
 TUBINGS

Order No.: 3-1026-R002



(Example)

Other versions are available.



DILO offers a wide range of connections suitable for all commercial SF₆ bottles. Thus safe and quick connection of hoses of DILO service carts or SF₆ gas refilling devices to the SF₆ gas bottles is guaranteed. This refers to bottle connections for new gas as well as for reuse gas.

The suitable connecting parts must be ordered separately.

DILO SF₆ bottle connections

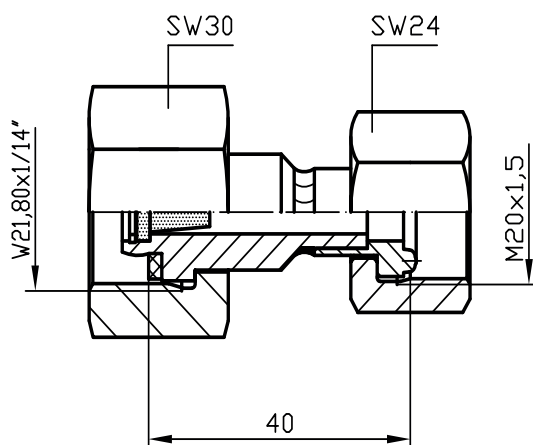
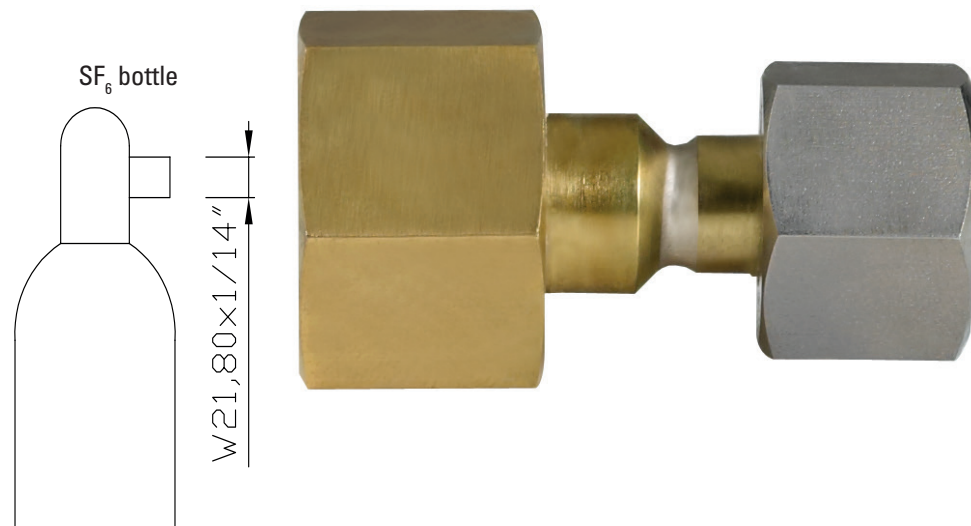
▪ 3-316-R001	SF ₆ bottle connection.....	134
▪ 3-858-R001	Angle SF ₆ bottle connection.....	135
▪ 3-643-R001	Chinese SF ₆ bottle connection.....	136
▪ 3-643-R002	Chinese SF ₆ bottle connection.....	137
▪ 3-245-R001	American SF ₆ bottle connection.....	138
▪ 3-334-R002	American SF ₆ bottle connection.....	139
▪ 3-245-R002	English SF ₆ bottle connection.....	140
▪ 3-245-R004	English SF ₆ bottle connection.....	141
▪ 3-851-R002	Connection for reuse gas bottle.....	142
▪ 3-851-R003	Connection for reuse gas bottle.....	143
▪ 3-858-R002	Angle for connection of reuse gas bottle.....	144
▪ 6-1037-R050	Storage connecting hose DN20.....	145
▪ 6-1041-R050	Storage connecting hose DN8.....	146

PN64 DN8

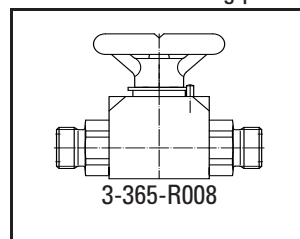
SF₆ BOTTLE CONNECTION W21,80X1/14" -
DIN 477 Nr. 6

Order No.: 3-316-R001 P

Material: Stainless steel / Brass



Suitable connecting parts

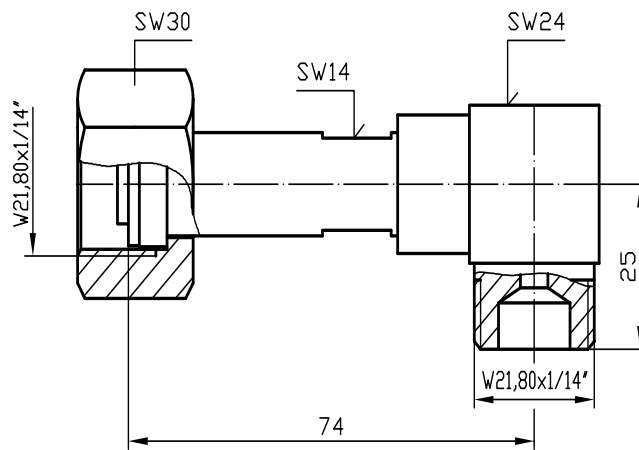
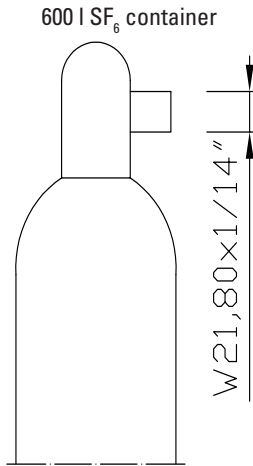


PN64 DN8

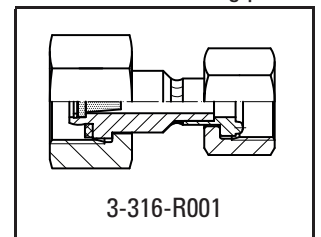
ANGLE SF₆ BOTTLE CONNECTION W21,80X1/14" -
DIN 477 NR. 6



Order No.: 3-858-R001 P
Material: Brass



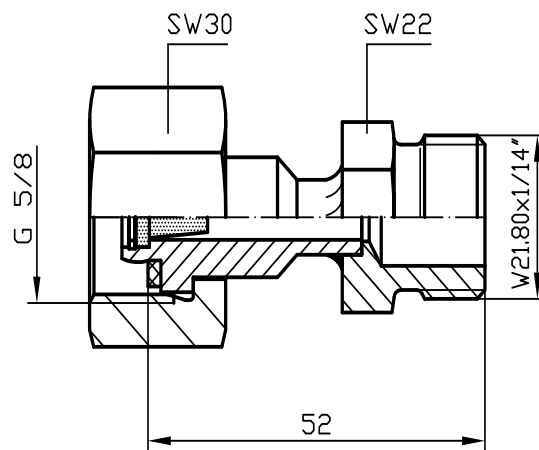
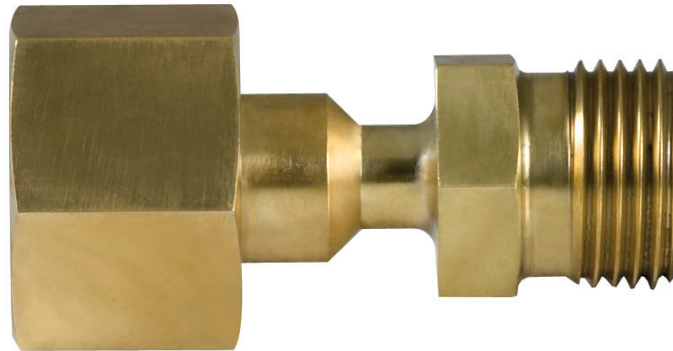
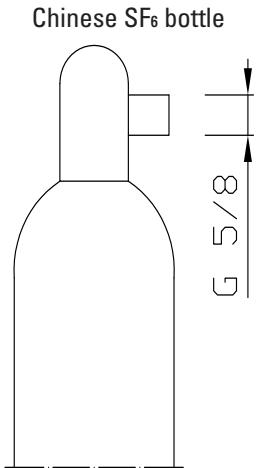
Suitable connecting parts



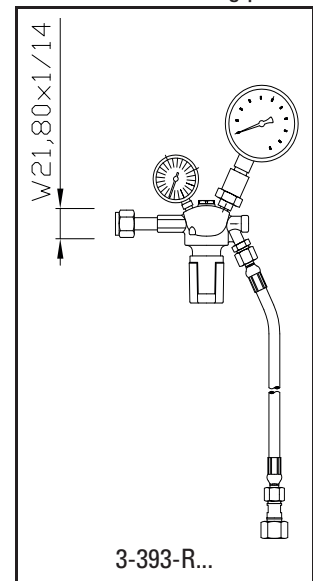
PN64 DN8
CHINESE SF₆ BOTTLE CONNECTION G 5/8 -
0,960"-14NGO-LH-EXT - CGA 590

Order No.: 3-643-R001 P

Material: Brass



Suitable connecting parts



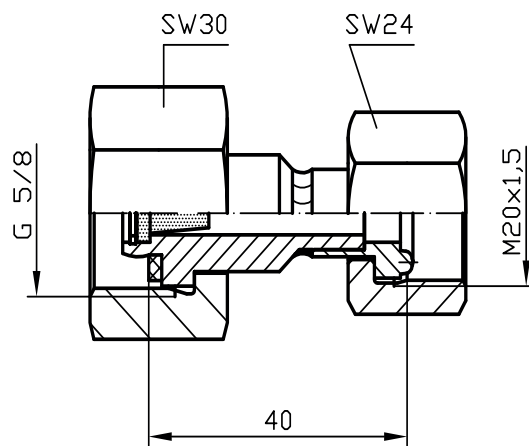
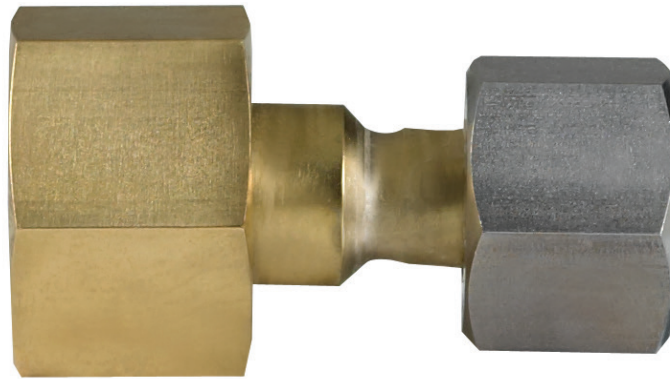
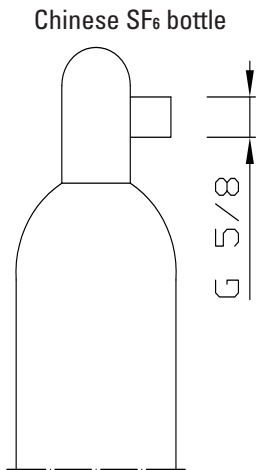
PN64 DN8

CHINESE SF₆ BOTTLE CONNECTION G 5/8 -
0,960"-14NGO-LH-EXT - CGA 590

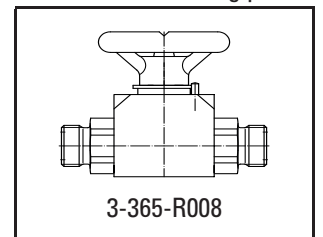


Order No.: 3-643-R002 P

Material: Stainless steel / Brass

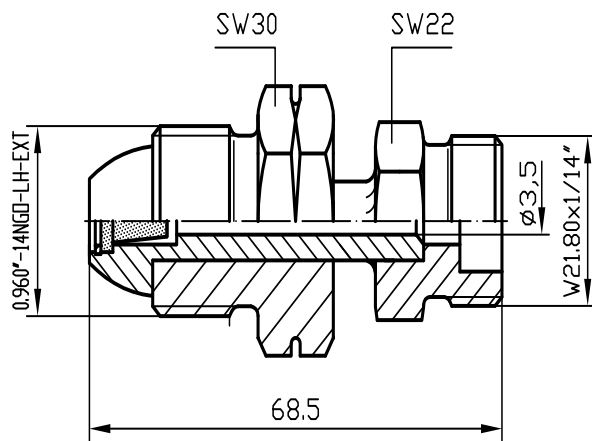
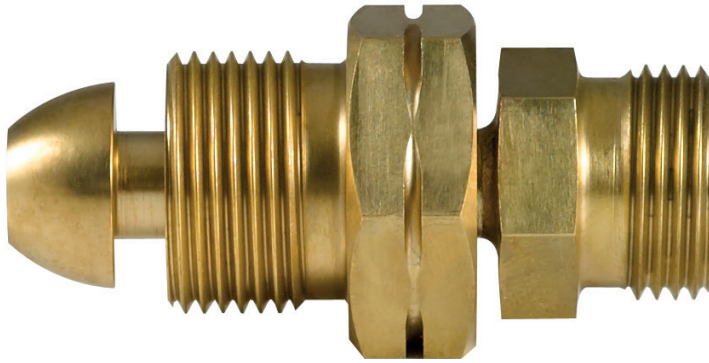


Suitable connecting parts

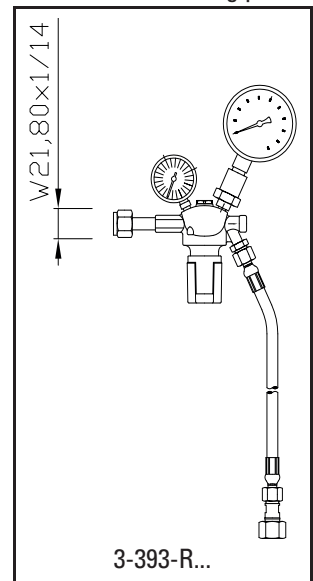


PN64 DN8
AMERICAN SF₆ BOTTLE CONNECTION
0,960"-14NGO-LH-EXT - CGA 590

Order No.: 3-245-R001 P
Material: Brass



Suitable connecting parts

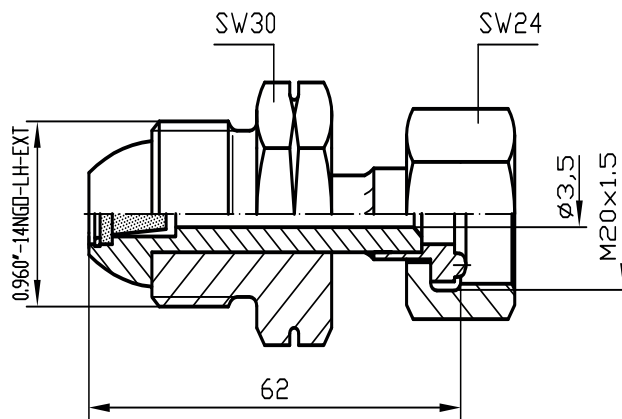
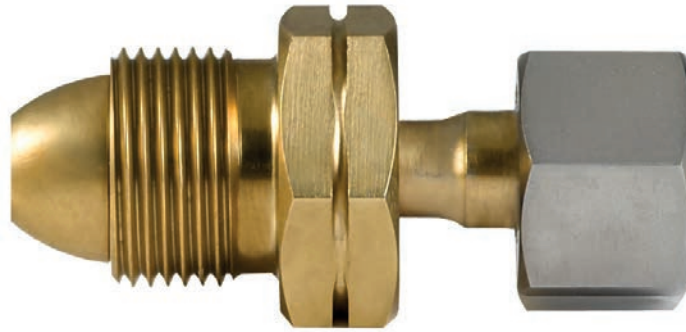


PN64 DN8
AMERICAN SF₆ BOTTLE CONNECTION
0,960"-14NGO-LH-EXT - CGA 590

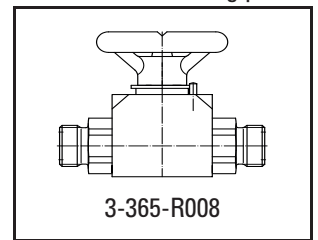


Order No.: 3-334-R002 P
Material: Stainless steel / Brass

American SF₆ bottle

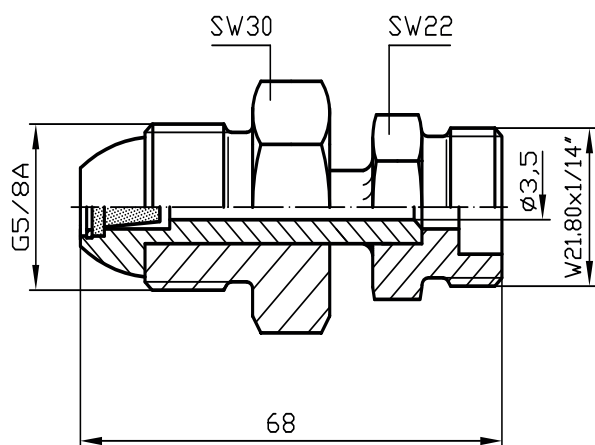
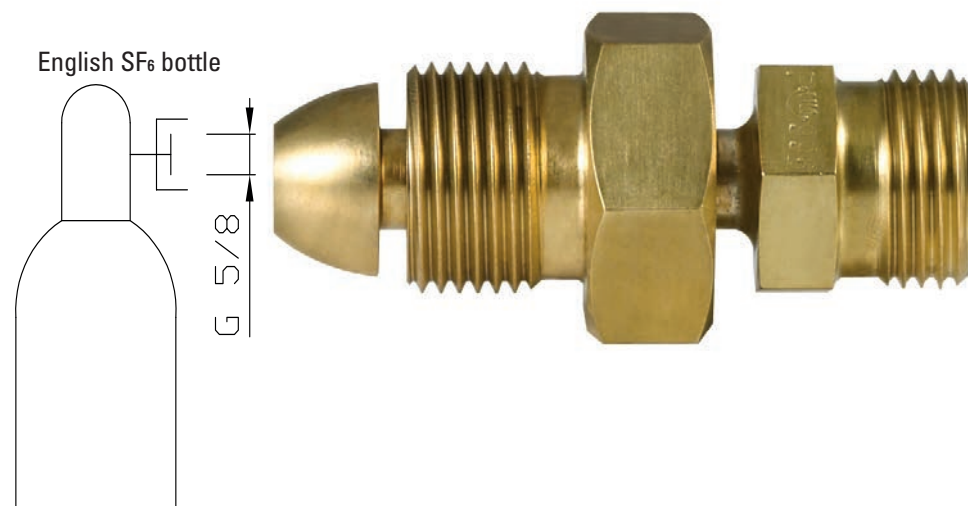


Suitable connecting parts

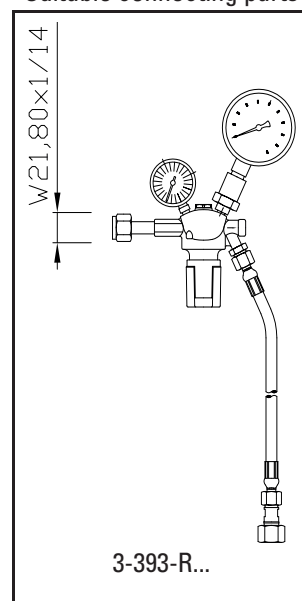


PN64 DN8
ENGLISH SF₆ BOTTLE CONNECTION G 5/8 -
BS No. 3

Order No.: 3-245-R002 P
Material: Brass



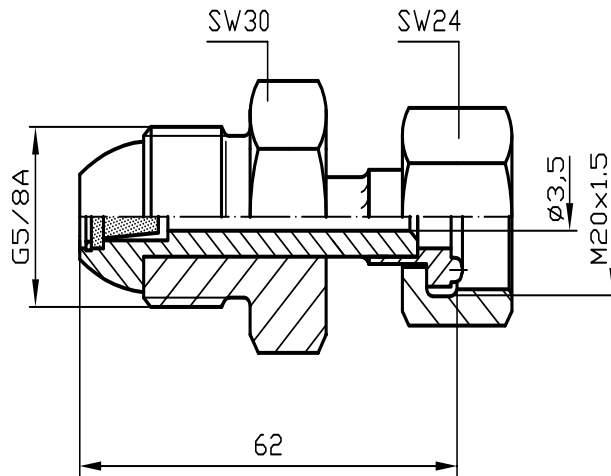
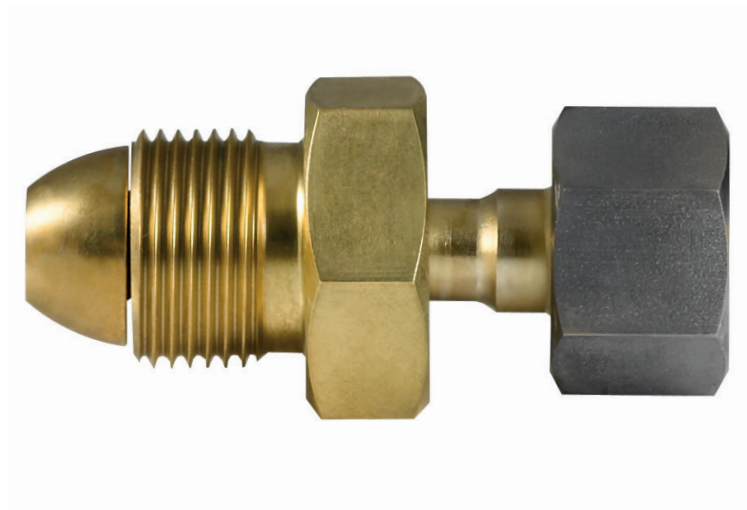
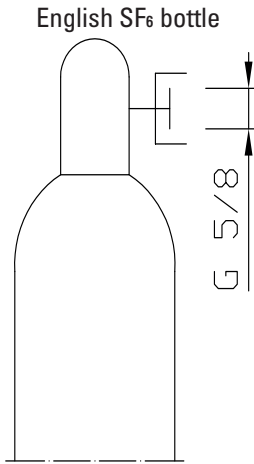
Suitable connecting parts



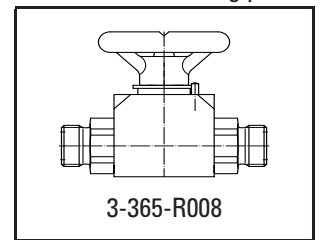
PN64 DN8
ENGLISH SF₆ BOTTLE CONNECTION G 5/8 -
BS NO. 3



Order No.: 3-245-R004 P
Material: Stainless steel / Brass

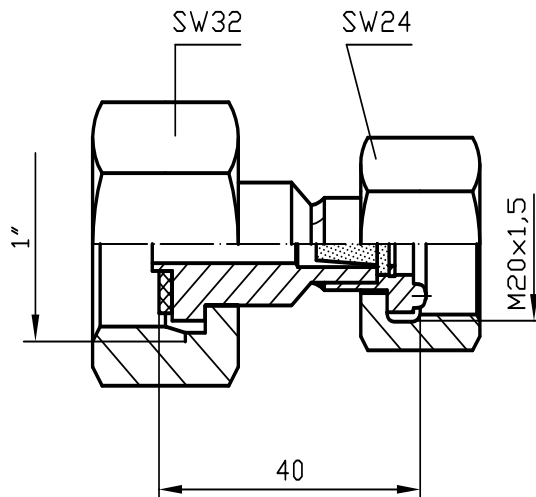
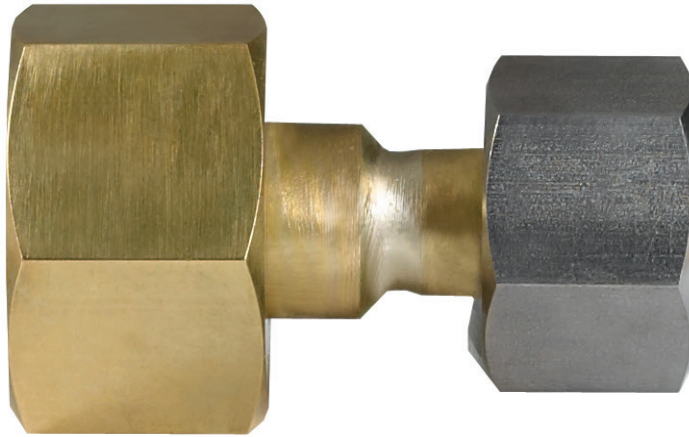
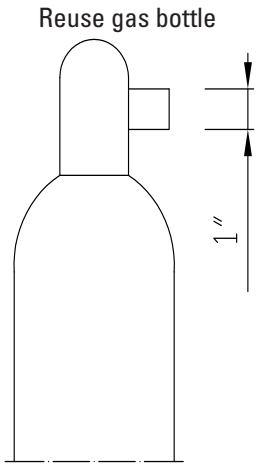


Suitable connecting parts

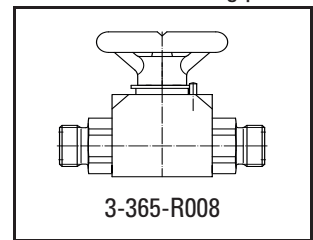


PN64 DN8
CONNECTION FOR REUSE GAS BOTTLE 1" -
DIN 477 Nr. 8

Order No.: 3-851-R002 P
Material: Stainless steel / Brass



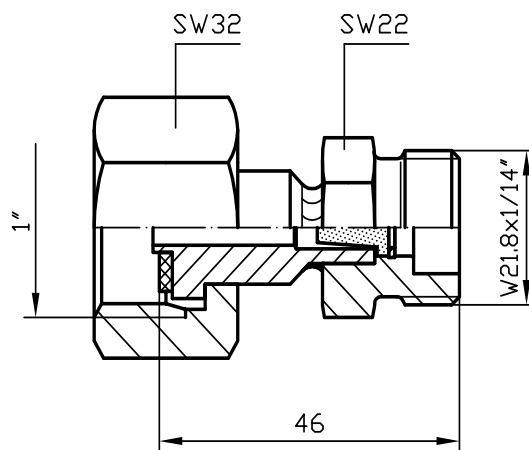
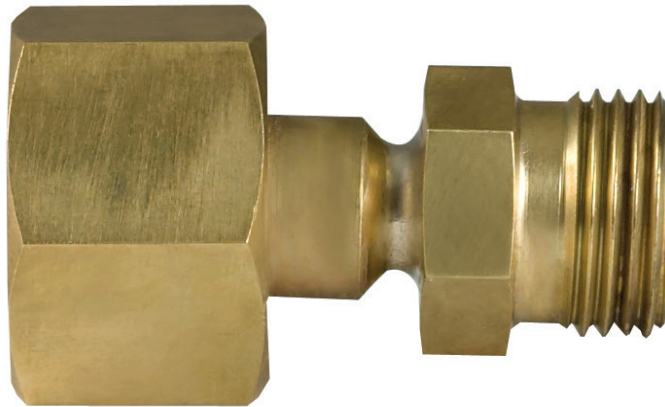
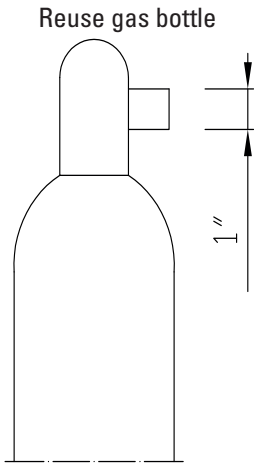
Suitable connecting parts



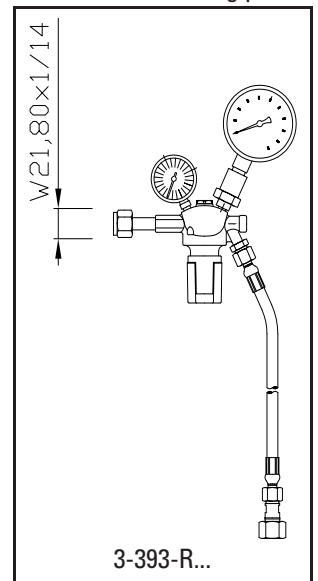
PN64 DN8
CONNECTION FOR REUSE GAS BOTTLE 1" -
DIN 477 NR. 8



Order No.: 3-851-R003 P
Material: Brass



Suitable connecting parts

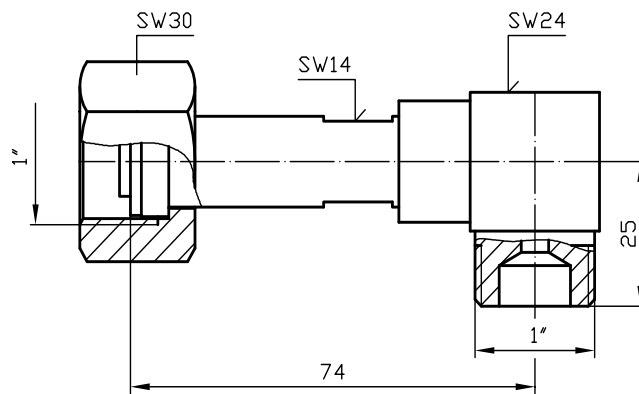
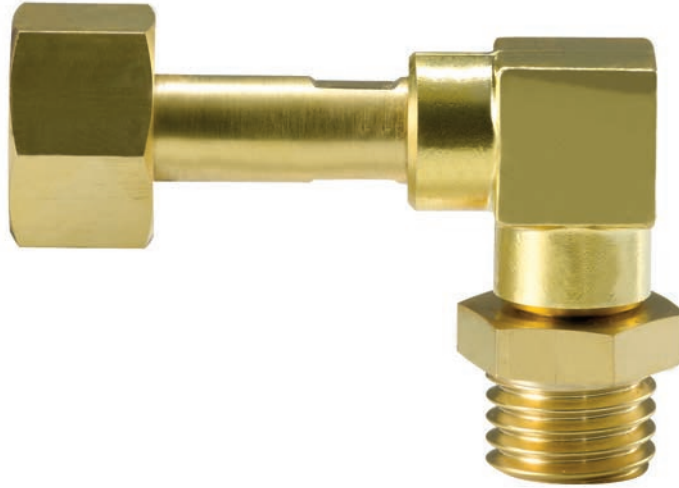
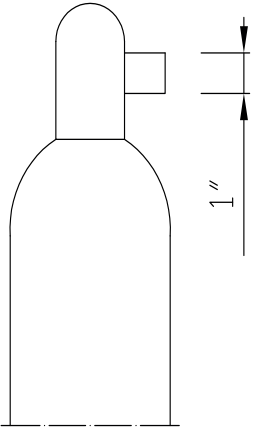


PN64 DN8
ANGLE FOR CONNECTION OF REUSE GAS BOTTLE 1" -
DIN 477 Nr. 8

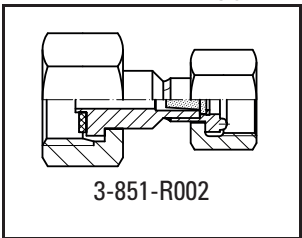
Order No.: 3-858-R002 P

Material: Brass

600 l Reuse container



Suitable connecting parts



PN64 DN20
STORAGE CONNECTING HOSE DN20

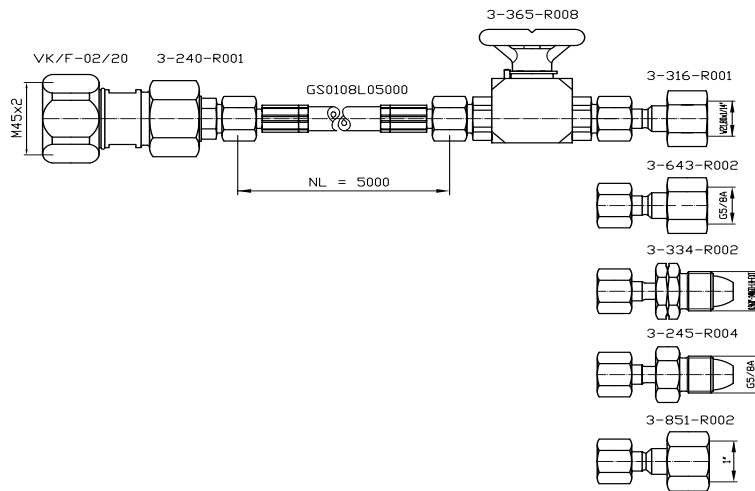


Order No.: 6-1037-R050

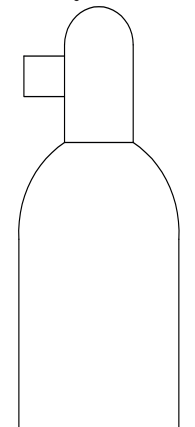


Suitable connecting parts

3-777-R001
VK/FL-01/20
3-685-R001
VK/A-02/20
VK/B-03/20 VK/BG-03/20



SF₆ bottle

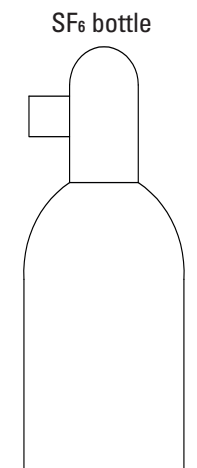
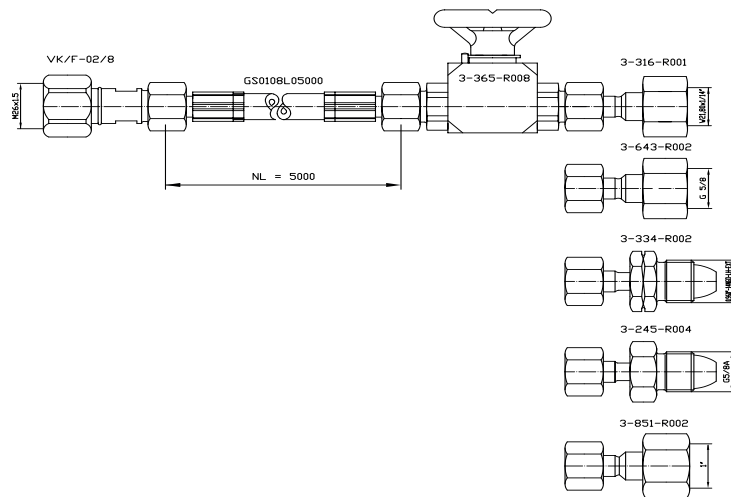
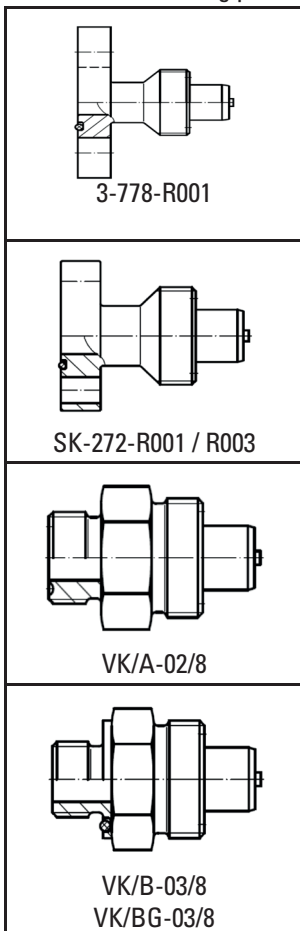


PN64 DN8
STORAGE CONNECTING HOSE DN8

Order No.: 6-1041-R050



Suitable connecting parts



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DILO CERTIFIED GAS	AFTER SALES SERVICES	TRAINING & CERTIFICATION	


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