

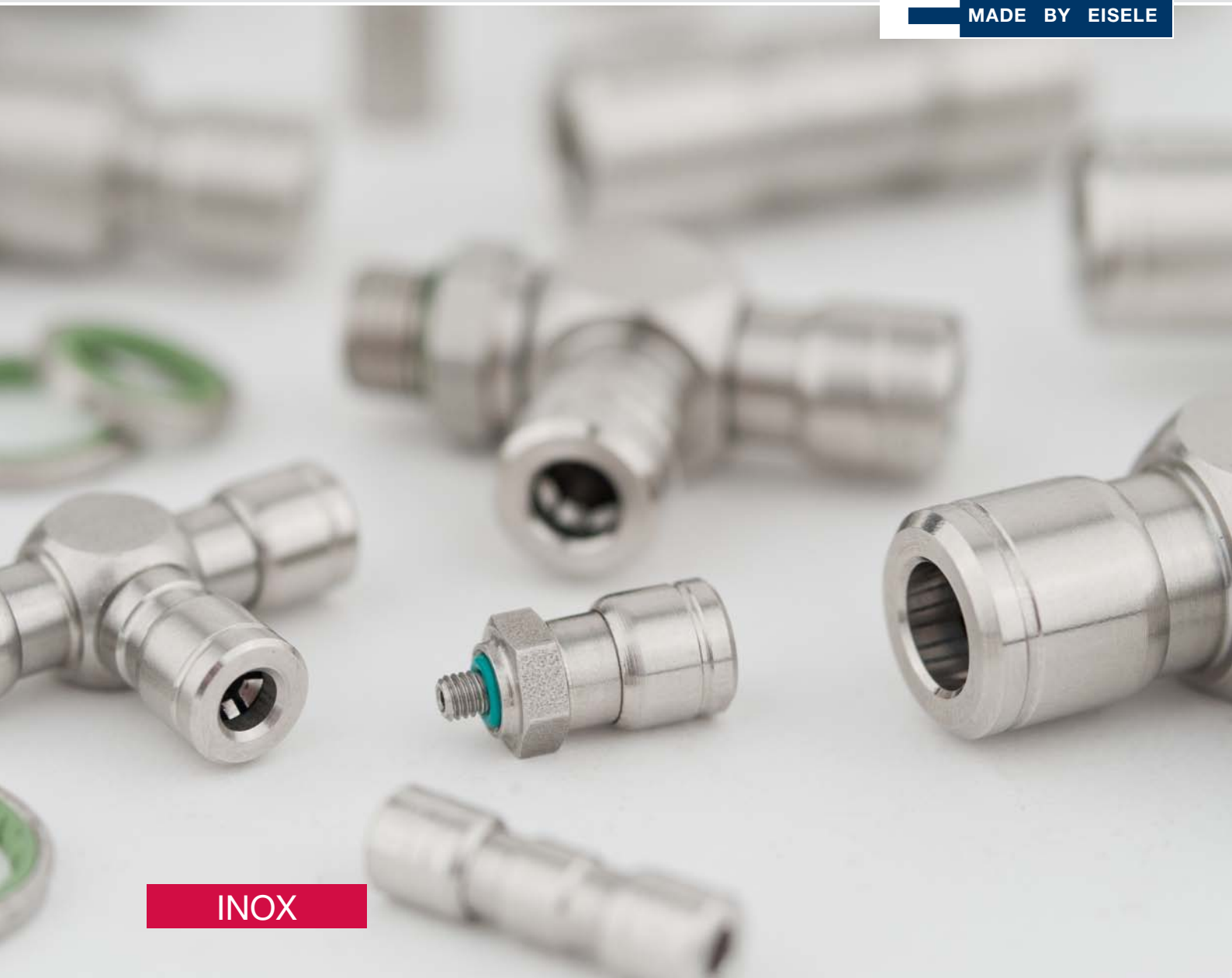


EISELE **INOXLINE PROGRAM**

STAINLESS STEEL CONNECTION SOLUTIONS



QUALITY SOLUTIONS
MADE BY EISELE



INOX

EISELE IS QUALITY MADE IN GERMANY

Over 30 patents, more than 3,500 standard articles, and 1,600 customized solutions impressively underline our top quality performance. Whether the solution is configured from standard components or individually customized: all EISELE products boast convincing quality, long lifetimes and sophisticated technology.

Our company is loyal to its philosophy and its roots. Germany is the place where we find our highly qualified employees – the workforce responsible for our company's output. With a manufacturing depth of almost 100%, and stock keeping at the production site itself, we can optimally supply our customers, and respond quickly to fulfill needs and technical specifications. EISELE is part of a global logistics network that guarantees the fast availability of our products on the global market.

DIN EN ISO 9001: 2008 – EISELE has been certified since 1994. We have continuously been updating this quality standard and will continue to maintain it with future certifications. The elements of our basic philosophy include sustainable quality, flexibility and continuous improvement.



From EISELE connection components you may expect:

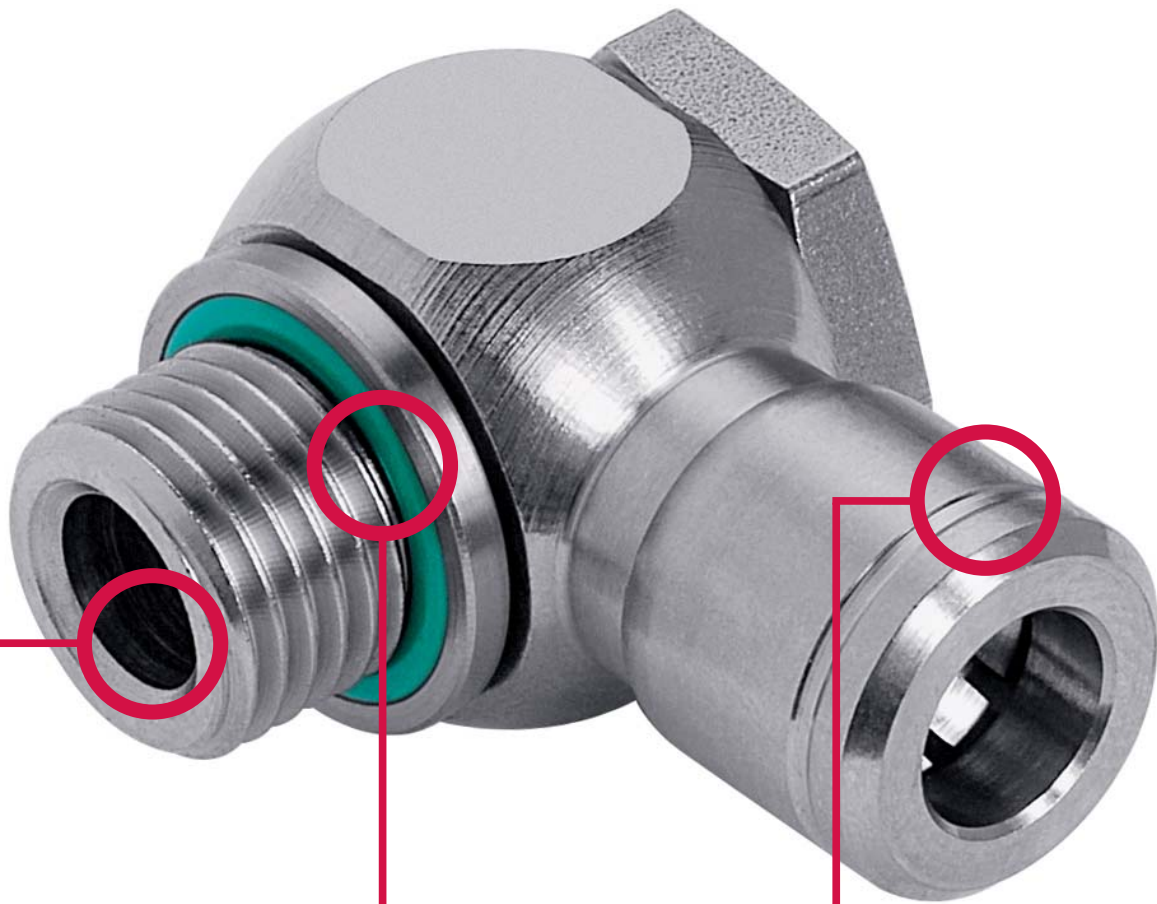
- + Highest tightness and safety
- + Ruggedness and long lifetimes
- + Vacuum-compatible products
- + Easy mounting and disassembly
- + Special connections for a broad range of applications



Content overview			Page	Series
EISELE INOXLINE		Plug connectors made of stainless steel with 1 seal	5	17
		All-round fittings made of stainless steel		
		Plug connectors made of stainless steel with 2 seals	19	17A
		Connections for increased pressures		
		Connectors for connections without dead spaces	29	3600
		Fittings made of stainless steel 1.4404		
		Comfort screw-in connectors for connections w/o gaps	35	3800
		Fittings made of stainless steel 1.4404		
		Accessories for the Eisele INOXLINE	41	ACC
		Ideal supplement to the Eisele INOXLINE connections		
		Customised connection solutions	47	CLIENT
		Customised connection solutions for the INOXLINE-Series		
		Plastic hoses	49	99
		PE, PA, PU, Eisele ProWeld, PTFE/FEP		
		Article number index	56	
		General terms and conditions	60	

Plug connectors made of stainless steel and 1 seal

17



Media-resistant materials

- For applications in the food industry
- High material quality. Use of stainless and acid-proof stainless steel 1.4301 / 1.4307

Efficient handling

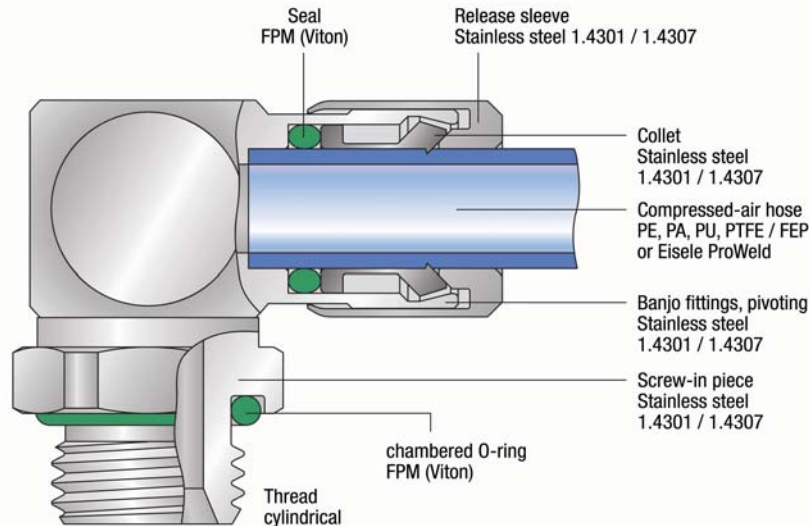
- Quick and secure assembly and disassembly of hoses.
- Handling does not require tools

With patented release sleeve

- The collet is located and well protected from the release sleeve in the casing
- Even when the connectors have been exposed to heavy soiling, dirt cannot enter the system
- Easy cleaning of connectors possible

Also suitable for vacuum applications.

Functional principle



Advantages

- Very quick assembly and disassembly of compressed-air hoses
- No tools necessary
- Frequent assembly and disassembly possible
- Full hose through-flow
- All male stud couplings with chambered O-ring sealed
- Very small connector sets
- Material stainless steel 1.4301 / 1.4307
- Suitable for vacuum

Special technology of the release sleeve

- Collet lies in casing and is protected from release sleeve
- Easy disassembly even when connectors are severely soiled
- Easy to clean

Range of application

The connection system with special technology for use in the food industry and for use with aggressive media. Very quick assembly and disassembly of compressed-air hoses made of PE (polyethylene), PA (polyamide), PU (polyurethane), ProWeld (PUR) and PTFE (Teflon) / FEP.

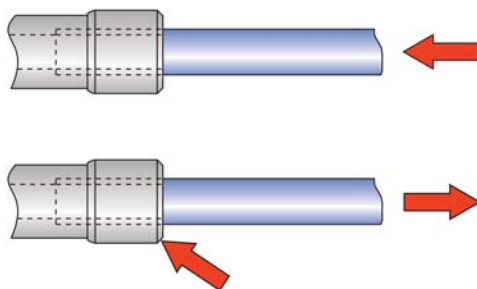
Service conditions

Working pressure range: -0.95 to 16 bar
Allowable medium: Air and other media ¹⁾
Temperature range: -20 to +120 °C

Data provided depend on hoses used.

¹⁾ Plug connectors of this type may not only be used for compressed-air, but, after consultation, for other gaseous media too. Please enquire if the sealing material FPM is not suitable for your application. Our engineers will be happy to consult you in the selection of a suitable sealing material.

Handling



Assembly: Push hose into the connector up to the limit stop

Disassembly: Fully push back release sleeve, pull out hose

Hoses

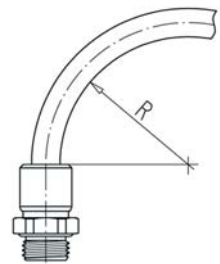
Hose dimension		Polyethylene (PE) Temperature range -10 to +40°C		Polyamide (PA) Temperature range -60 to +100°C		Polyurethane (PU) Temperature range -35 to +70°C		ProWeld (PUR) ¹⁾ Temperature range -35 to +75°C		Teflon (PTFE) /FEP ²⁾ Temperature range -35 to +120°C	
Outside-Ø	Inside-Ø	R min.	p max. (bar)	R min.	p max. (bar)	R min.	p max. (bar)	R min.	p max. (bar)	R min.	p max. (bar)
4 (±0,1)	2	20	20	20	30	8	10	6,5	20	16	25
4,3 (±0,1)	3	20	13	20	20	10	10	-	-	35	10
5 (±0,1)	3	25	15	25	25	11	10	-	-	25	20
6 (±0,15)	4	30	13	30	20	14	10	12	11	35	15
8 (±0,15)	6	40	8	40	15	20	9	18	9	65	11
10 (±0,15)	8	60	6	60	12	37,5	8	15	14	100	9
12 (±0,15)	9	60	9	85	15	48	10	24	10	100	9
14 (±0,15)	11	90	8	80	12	60	7,5	38	9	140	9
16 (±0,15)	11	90	6	90	11	43	10	44	9	-	-
20 (±0,2)	14	-	-	-	-	-	-	-	8	-	-

The mounted compressed-air hoses are not to be exposed to tensile loading.

¹⁾ In the case of Eisele ProWeld hoses a smaller inside diameter results from a partially larger wall thickness.

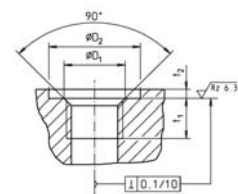
²⁾ Important notes for the use of compressed-air hoses made of PTFE (Teflon) and FEP:

- The outside diameter of compressed-air hoses must be free of grooves and other damages (e.g. damage from installation tools).
- Prior to assembly, use the Eisele hose cutter Art. No. 99605-0014 or Art. No. 99606-0022 to cut compressed-air hoses at a right angle. Ensure that hoses are not being deformed or damaged during the cutting process
- During assembly, compressed-air hoses must be pressed until the bottom of the plug connectors is felt so as to achieve proper tightness.



Connection thread

Thread	Thread depth	Thread counterbore	Counterbore ¹⁾		Torque ²⁾	Thread standards
	t1 min. (mm)	ØD1 max. (mm)	ØD2 min. (mm)	t2 max. (mm)	max. (Ncm)	
M5	4.5	6	10	0.5	95	Metric thread M: DIN 13 / ISO 965
G1/8	7	11	15.3	1	900	Pipe thread G: DIN ISO 228
G1/4	9	14.2	19	1.5	1800	
G3/8	9	17.5	23	2	2500	
G1/2	11	22	27	2.5	3400	



¹⁾ A counterbore is not necessary. However, the indicated values apply if a counterbore is applied.

Threaded connectors

starting on page 9



Straight threaded connectors

page 9



Angled threaded connectors

page 11



T threaded connectors

page 12

Plug connector

starting on page 13



Double connectors

page 13



Elbow connector

page 14



T connectors

page 14



Cross connectors

page 14



Bulkhead connectors

page 15

Functional screw joints

starting on page 15



Throttle check valve

page 15

Plug

starting on page 16



Reducing plug

page 16



Elbow plug

page 17



Sealing plug

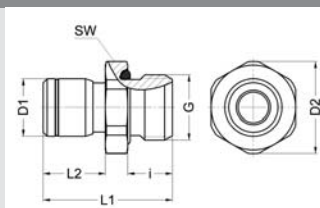
page 16

Accessories

starting on page 42

Screw-in connector

- Whitworth pipe thread
- Chambered O-ring
- Seals FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

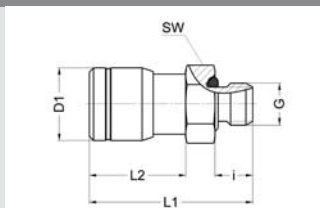


17

Part no.	G	for hose	SW	i	L1	L2	D1	D2	NW	g/piece
928-0202	G1/8	OD4 (4/2)	13	7	21	10	8,6	14,2	2	9
928-0204	G1/8	OD6 (6/4)	13	7	23,5	12,5	11,5	14,2	4	10
928-0206	G1/8	OD8 (8/6)	14	7	28,5	17,5	14,5	15,2	6	15
928-0402	G1/4	OD4 (4/2)	17	9	23,5	10	8,6	18,5	2	18
928-0404	G1/4	OD6 (6/4)	17	9	26	12,5	11,5	18,5	4	19
928-0406	G1/4	OD8 (8/6)	17	9	29	15,5	14,5	18,5	6	21
928-0408	G1/4	OD10 (10/8)	17	9	33,5	20	16,5	18,5	8	23
928-0409	G1/4	OD12 (12/9)	19	9	37,5	22	20	20,7	8	36
928-0604	G3/8	OD6 (6/4)	22	9	27	12,5	11,5	23,8	4	33
928-0606	G3/8	OD8 (8/6)	22	9	30	15,5	14,5	23,8	6	35
928-0608	G3/8	OD10 (10/8)	22	9	32	17,5	16,5	23,8	8	34
928-0609	G3/8	OD12 (12/9)	22	9	34	19,5	20	23,8	9	37
928-0611	G3/8	OD14 (14/11)	22	9	41	26,5	22	23,8	11	44
928-0804	G1/2	OD6 (6/4)	24	11	29,5	12,5	11,5	26,2	4	51
928-0806	G1/2	OD8 (8/6)	24	11	32,5	15,5	14,5	26,2	6	54
928-0808	G1/2	OD10 (10/8)	24	11	34,5	17,5	16,5	26,2	8	52
928-0809	G1/2	OD12 (12/9)	24	11	36,5	19,5	20	26,2	9	54
928-0811	G1/2	OD14 (14/11)	24	11	38	21	22	26,2	11	52
928-0815	G1/2	OD20 (20/15)	30	11	61,2	39,2	30,5	33,5	12,5	130
928-1015	G3/4	OD20 (20/15)	32	12	61,2	38,2	30,5	34,8	16,5	145

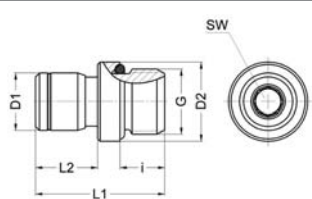
Screw-in connector

- Thread M3, M5
- Chambered O-ring
- Seals FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar



Part no.	G	for hose	SW	i	L1	L2	D1	NW	g/piece
929-4202	M3	OD4 (4/2)	8	3	18,5	11,5	8,6	1,2	4
929-5002	M5	OD4 (4/2)	8	4,5	19,5	11,5	8,6	2	4
929-5004	M5	OD6 (6/4)	10	4,5	23	14	11,5	2,5	7

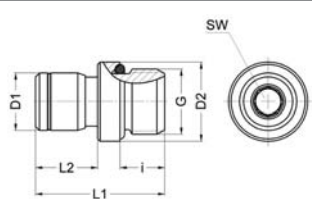
Screw-in connector



- Whitworth pipe thread
- With hexagon socket
- Chambered O-ring
- Seals FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

Part no.	G	for hose	i	L1	L2	D1	D2	NW	g/piece
962-0202	G1/8	OD4 (4/2)	7	21	10	8,6	11,9	2	8
962-0204	G1/8	OD6 (6/4)	7	23,5	12,5	11,5	11,9	4	9
962-0206	G1/8	OD8 (8/6)	7	28,5	-	14,5	-	5,1	15
962-0402	G1/4	OD4 (4/2)	9	23,5	10	8,6	15,9	2	16
962-0404	G1/4	OD6 (6/4)	9	26	12,5	11,5	15,9	4	17
962-0406	G1/4	OD8 (8/6)	9	29	15,5	14,5	15,9	6	20
962-0408	G1/4	OD10 (10/8)	9	33,5	20	16,5	15,9	8	21
962-0606	G3/8	OD8 (8/6)	9	30	15,5	14,5	19,9	6	31
962-0608	G3/8	OD10 (10/8)	9	32	17,5	16,5	19,9	8	30
962-0609	G3/8	OD12 (12/9)	9	34	19,5	20	19,9	9	32

Screw-in connector

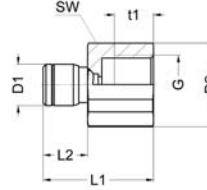


- Thread M3, M5
- Chambered O-ring
- Seals FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

Part no.	G	for hose	i	L1	L2	D1	D2	NW	g/piece
963-5002	M5	OD4 (4/2)	4,5	19	11	8,8	8	2	4
963-5004	M5	OD6 (6/4)	4,5	23,5	14	11,6	8	2,5	6

Straight screw-in connector with female thread

- Whitworth pipe thread
- Seals FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

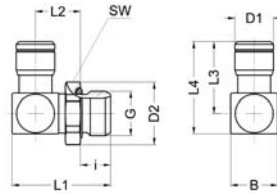


17

Part no.	G	for hose	SW	L1	L2	t1	D1	D2	NW	g/piece
917-0102	G1/8	OD4 (4/2)	14	24	10	7	8,6	15,2	2	15
917-0104	G1/8	OD6 (6/4)	14	27	12,5	7	11,5	15,2	4	18
917-0106	G1/8	OD8 (8/6)	14	30	15,5	7	14,5	15,2	6	21
917-0304	G1/4	OD6 (6/4)	17	31	12,5	11	11,5	18,3	4	27
917-0306	G1/4	OD8 (8/6)	17	34	15,5	11	14,5	18,3	6	31
917-0308	G1/4	OD10 (10/8)	17	37	17,5	11	16,5	18,3	8	34
917-0504	G3/8	OD6 (6/4)	22	31	12,5	11	11,5	23,4	4	43
917-0506	G3/8	OD8 (8/6)	22	34	15,5	11	14,5	23,4	6	46
917-0508	G3/8	OD10 (10/8)	22	37	17,5	11	16,5	23,4	8	50
917-0704	G1/2	OD6 (6/4)	27	34	12,5	13	11,5	28,6	4	68
917-0706	G1/2	OD8 (8/6)	27	37	15,5	13	14,5	28,6	6	72
917-0708	G1/2	OD10 (10/8)	27	40	17,5	13	16,5	28,6	8	77

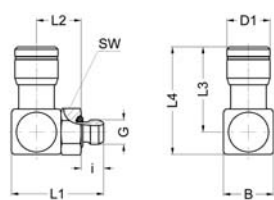
Elbow screw-in connector, swiveling

- Whitworth pipe thread
- Chambered O-ring
- Seals FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar



Part no.	G	for hose	SW	i	L1	L2	L3	L4	B	D1	D2	NW	g/piece
986-0202	G1/8	OD4 (4/2)	13	7	23	11	17	21,5	10	8,6	14,2	2	16
986-0204	G1/8	OD6 (6/4)	13	7	27	13	21,3	27,3	14	11,5	14,2	4	28
986-0206	G1/8	OD8 (8/6)	13	7	29,5	14,5	25,5	33	16	14,5	14,2	5,5	40
986-0402	G1/4	OD4 (4/2)	17	9	26	12	17	21,5	10	8,6	18,5	2	23
986-0404	G1/4	OD6 (6/4)	17	9	29,5	13,5	21,3	27,3	14	11,5	18,5	4	36
986-0406	G1/4	OD8 (8/6)	17	9	32	15	25,5	33	16	14,5	18,5	6	48
986-0408	G1/4	OD10 (10/8)	17	9	34	16	29,5	38	18	16,5	18,5	8	57
986-0409	G1/4	OD12 (12/9)	17	9	36,5	17,5	35,5	45,5	20	20	18,5	9	80
986-0606	G3/8	OD8 (8/6)	22	9	32,5	15,5	25,5	33	16	14,5	23,8	6	58
986-0608	G3/8	OD10 (10/8)	22	9	34,5	16,5	29,5	38	18	16,5	23,8	8	69
986-0609	G3/8	OD12 (12/9)	22	9	37	18	35,5	45,5	20	20	23,8	9	92
986-0806	G1/2	OD8 (8/6)	24	11	35,5	16,5	25,5	33	16	14,5	26,2	6	73
986-0808	G1/2	OD10 (10/8)	24	11	37,5	17,5	29,5	38	18	16,5	26,2	8	84
986-0809	G1/2	OD12 (12/9)	24	11	40	19	35,5	45,5	20	20	26,2	9	108

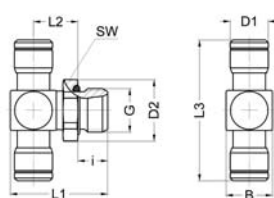
Elbow screw-in connector, swiveling



- Thread M3, M5
- Chambered O-ring
- Seals FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

Part no.	G	for hose	SW	i	L1	L2	L3	L4	B	D1	NW	g/piece
987-4202	M3	OD4 (4/2)	8	3	17	9	17	21,5	10	8,6	1,2	10
987-5002	M5	OD4 (4/2)	8	4,5	18,5	9	17	21,5	10	8,6	2	10
987-5004	M5	OD6 (6/4)	8	4,5	20,5	10	20	24,5	12	11,5	2,5	15

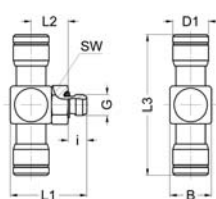
T screw-in connector, swiveling



- Whitworth pipe thread
- Chambered O-ring
- Seals FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

Part no.	G	for hose	SW	i	L1	L2	L3	B	D1	D2	NW	g/piece
988-0202	G1/8	OD4 (4/2)	13	7	23	11	34	10	8,6	14,2	2	18
988-0204	G1/8	OD6 (6/4)	13	7	27	13	42,6	14	11,5	14,2	4	33
988-0206	G1/8	OD8 (8/6)	13	7	29,5	14,5	51	16	14,5	14,2	5,5	49
988-0402	G1/4	OD4 (4/2)	17	9	26	12	34	10	8,6	18,5	2	26
988-0404	G1/4	OD6 (6/4)	17	9	29,5	13,5	42,6	14	11,5	18,5	4	41
988-0406	G1/4	OD8 (8/6)	17	9	32	15	51	16	14,5	18,5	6	56
988-0408	G1/4	OD10 (10/8)	17	9	34	16	59	18	16,5	18,5	8	59
988-0409	G1/4	OD12 (12/9)	17	9	36,5	17,5	71	20	20	18,5	9	100
988-0606	G3/8	OD8 (8/6)	22	9	32,5	15,5	51	16	14,5	23,8	6	67
988-0608	G3/8	OD10 (10/8)	22	9	34,5	16,5	59	18	16,5	23,8	8	80
988-0609	G3/8	OD12 (12/9)	22	9	37	18	71	20	20	23,8	9	112
988-0806	G1/2	OD8 (8/6)	24	11	35,5	16,5	51	16	14,5	26,2	6	82
988-0808	G1/2	OD10 (10/8)	24	11	37,5	17,5	59	18	16,5	26,2	8	96
988-0809	G1/2	OD12 (12/9)	24	11	40	19	71	20	20	26,2	9	128

T screw-in connector, swiveling

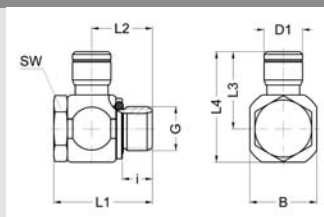


- M5 thread
- Chambered O-ring
- Seals FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

Part no.	G	for hose	SW	i	L1	L2	L3	B	D1	NW	g/piece
989-5002	M5	OD4 (4/2)	8	4,5	18,5	9	34	10	8,6	2	12
989-5004	M5	OD6 (6/4)	8	4,5	20,5	10	40	12	11,5	2,5	21

Single swivel connector, short model

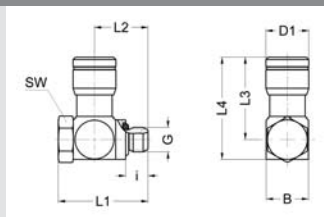
- Whitworth pipe thread
- Chambered O-ring
- Seals FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar



Part no.	G	for hose	SW	i	L1	L2	L3	L4	B	D1	NW	g/piece
934-0202K	G1/8	OD4 (4/2)	13	7	27	8,5	18,2	26,2	16	8,6	2	32
934-0204K	G1/8	OD6 (6/4)	13	7	27	8,5	21	29	16	11,5	4	34
934-0206K	G1/8	OD8 (8/6)	13	7	27	8,5	24	32	16	14,5	5,2	37
934-0402K	G1/4	OD4 (4/2)	17	9	29,5	9	20	30	20	8,6	2	48
934-0404K	G1/4	OD6 (6/4)	17	9	29,5	9	23	33	20	11,5	4	51
934-0406K	G1/4	OD8 (8/6)	17	9	29,5	9	26	36	20	14,5	6	54
934-0408K	G1/4	OD10 (10/8)	17	9	29,5	9	28,5	38,5	20	16,5	7,2	56

Single swivel connector, short model

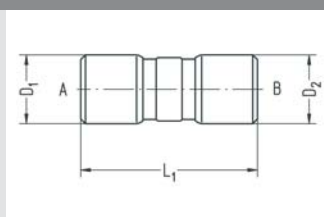
- M5 thread
- Chambered O-ring
- Seals FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar



Part no.	G	for hose	SW	i	L1	L2	L3	L4	B	D1	NW	g/piece
935-5002K	M5	OD4 (4/2)	8	4,5	18	6,2	16,5	20,5	8,5	8,6	2	8
935-5004K	M5	OD6 (6/4)	8	4,5	19,5	7	19,5	24	11	11,5	2,4	13

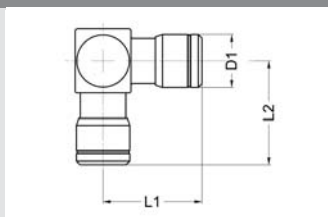
Double connector

- Seals FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar



Part no.	for hose A	for hose B	L1	D1	D2	NW	g/piece
932-0204	OD4 (4/2)	OD6 (6/4)	30,5	8,6	11,5	2	10
932-0406	OD6 (6/4)	OD8 (8/6)	35,5	11,5	14,5	4	19
932-0408	OD6 (6/4)	OD10 (10/8)	38,5	11,5	16,5	4	23
932-0608	OD8 (8/6)	OD10 (10/8)	42,5	14,5	16,5	6	28
932-0609	OD8 (8/6)	OD12 (12/9)	47,5	14,5	20	6	42
932-0809	OD10 (10/8)	OD12 (12/9)	50	16,5	20	8	45
933-0202	OD4 (4/2)	OD4 (4/2)	27	8,6	8,6	2	6
933-0404	OD6 (6/4)	OD6 (6/4)	33	11,5	11,5	4	12
933-0606	OD8 (8/6)	OD8 (8/6)	39	14,5	14,5	6	22
933-0808	OD10 (10/8)	OD10 (10/8)	44,5	16,5	16,5	8	30
933-0909	OD12 (12/9)	OD12 (12/9)	54,5	20	20	9	53

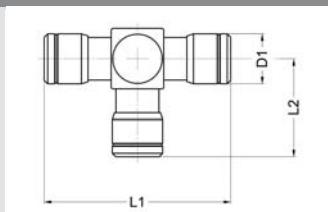
Elbow connector



- Seals FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

Part no.	for hose	L1	L2	D1	NW	g/piece
977-0200	OD4 (4/2)	17	17,5	8,5	2	11
977-0400	OD6 (6/4)	21,3	22,5	11,5	4	26
977-0600	OD8 (8/6)	25,5	26	14,5	6	42
977-0800	OD10 (10/8)	29,5	30,5	16,5	8	57
977-0900	OD12 (12/9)	35,5	36	20	9	89

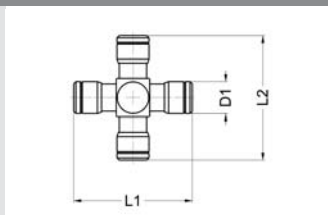
T connector



- Seals FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

Part no.	for hose	L1	L2	D1	NW	g/piece
978-0200	OD4 (4/2)	34	17,5	8,6	2	13
978-0400	OD6 (6/4)	42,6	22,5	11,5	4	31
978-0600	OD8 (8/6)	51	26	14,5	6	50
978-0800	OD10 (10/8)	59	30,5	16,5	8	68
978-0900	OD12 (12/9)	71	36	20	9	110

4-way connector

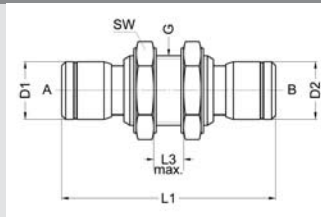


- Seals FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

Part no.	for hose	L1	L2	D1	NW	g/piece
979-0400	OD6 (6/4)	42,6	44,8	11,5	4	35

Bulkhead connector

- Seals FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

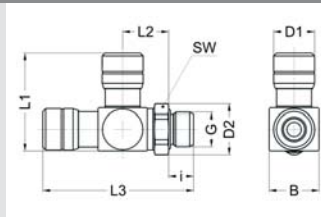


17

Part no.	for hose A	for hose B	G	SW	L1	L3 max.	D1	D2	NW	g/piece
980-0202	OD4 (OD4 (4/2))	OD4 (4/2)	M12x1	14	34	6	8,6	8,6	2	19
980-0404	OD6 (6/4)	OD6 (6/4)	M14x1	17	43	8	11,5	11,5	4	35
980-0606	OD8 (8/6)	OD8 (8/6)	M16x1	19	49	8	14,5	14,5	6	47
980-0808	OD10 (10/8)	OD10 (10/8)	M18x1	22	56	10	16,5	16,5	8	65
980-0909	OD12 (12/9)	OD12 (12/9)	M22x1	27	63	12	20	20	9	109
980-1111	OD14 (14/11)	OD14 (14/11)	M24x1	30	66	12	22	22	11	127
981-0204	OD4 (OD4 (4/2))	OD6 (6/4)	M14x1	17	40,5	8	8,6	11,5	2	26
981-0406	OD6 (6/4)	OD8 (8/6)	M16x1	19	46	8	11,5	14,5	4	35
981-0608	OD8 (8/6)	OD10 (10/8)	M18x1	22	54	10	14,5	16,5	6	51
981-0809	OD10 (10/8)	OD12 (12/9)	M22x1	27	61	12	16,5	20	8	84

L screw-in connector, pivoting

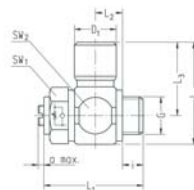
- Whitworth pipe thread
- Chambered O-ring
- Seals FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar



Part no.	G	for hose	SW	i	L1	L2	L3	D1	D2	B	NW	g/piece
990-0204	G1/8	OD6 (6/4)	13	7	27	12,9	42,3	11,5	14,2	14	4	33

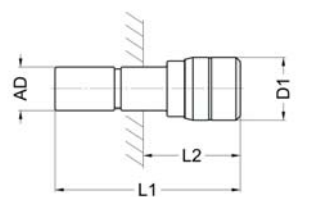
Single swivel connector with throttle check valve

- Short design (exhaust-side throttle)
- Slotted adjusting screw
- Whitworth-pipe thread
- VS seal rings (FPM)
- Seal in connection FPM
- Material: 1.4301/ 1.4307
- Type: Cone-type throttle
- Allowable medium: Air
- Temperature range: -20 to +120 °C
- Working pressure range: 0,5 to 10 bar



Part no.	G	for hose	NI/min 1->2	NI/min 2->1	SW1	SW2	i	L1	L2	L3	L4	D1	a max.	NW	g/piece
VT234-0202K934	G1/8	OD4 (4/2)	200	150	14	16	6	32	9,5	18,2	26,2	8,5	2	2	40
VT234-0204K934	G1/8	OD6 (6/4)	200	150	14	16	6	32	9,5	21	29	11,5	2	3	43
VT234-0206K934	G1/8	OD8 (8/6)	200	150	14	16	6	32	9,5	24	32	14,5	2	3	47
VT234-0208K934	G1/8	OD10 (10/8)	200	150	14	16	6	32	9,5	27	35	16,5	2	3	49
VT234-0402K934	G1/4	OD4 (4/2)	400	300	17	20	8	35,5	9,5	20	30	8,5	2	2	62
VT234-0404K934	G1/4	OD6 (6/4)	400	300	17	20	8	35,5	9,5	23	33	11,5	2	4	64
VT234-0406K934	G1/4	OD8 (8/6)	400	300	17	20	8	35,5	9,5	26	36	14,5	2	4,5	68
VT234-0408K934	G1/4	OD10 (10/8)	400	300	17	20	8	35,5	9,5	28,5	38,5	16,5	2	4,5	70

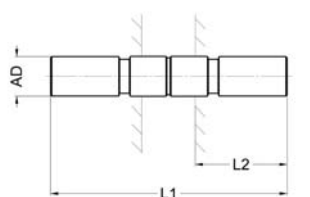
Reducing plug



- Seal s FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar
- Fits all Eisele plug connectors

Part no.	plug AD	for hose	L1	L2	D1	NW	g/piece
921-0204	4	OD6 (6/4)	34	11,5	11,5	2,5	7
921-0402	6	OD4 (4/2)	31,5	8,6	8,6	3	5
921-0602	8	OD4 (4/2)	34,5	8,6	8,6	3	7
921-0604	8	OD6 (6/4)	39	11,5	11,5	4,5	10
921-0804	10	OD6 (6/4)	40	11,5	11,5	4,5	12
921-0806	10	OD8 (8/6)	43	14,5	14,5	6,5	15
921-0906	12	OD8 (8/6)	48	14,5	14,5	6,5	20
921-0908	12	OD10 (10/8)	51	16,5	16,5	8,5	23

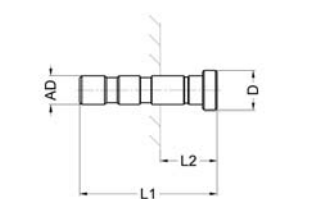
Double plug



- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

Part no.	plug AD	L1	L2	NW	g/piece
922-0202	4	30	12,2	2	1
922-0404	6	36	15	4	4
922-0606	8	41	17,2	6	7
922-0808	10	47	19	8	10
922-0909	12	60	24	9	23
922-1111	14	64	28,5	11	59

Sealing plug

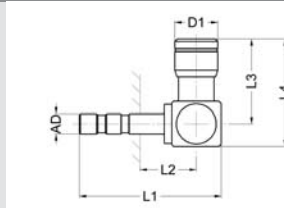


- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

Part no.	plug AD	L1	L2	D	g/piece
923-0200	4	19	6,8	5,5	2
923-0400	6	21,5	6,5	8	5
923-0600	8	24,5	7,2	10	10
923-0800	10	28	9	12	17
923-0900	12	33	9	14	30
923-1100	14	36	7,5	16	44

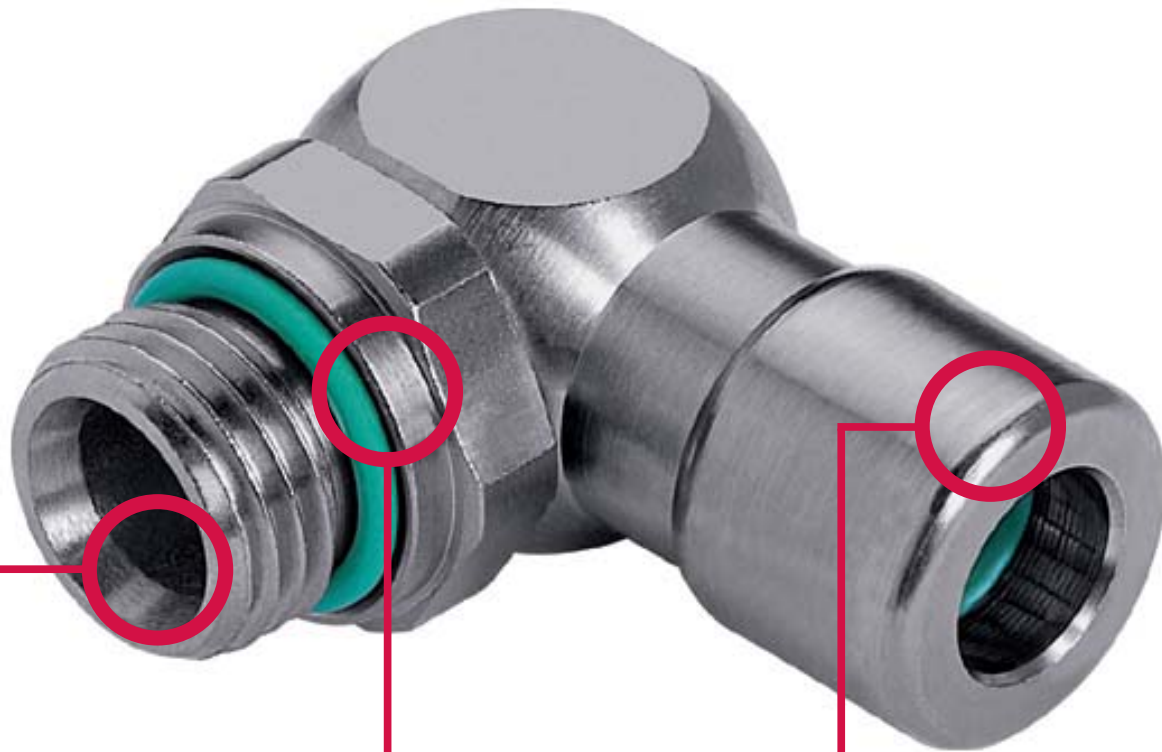
Elbow plug

- Seals FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar



Part no.	plug AD	for hose	L1	L2	L3	L4	D1	NW	g/piece
941-0202	4	OD4 (4/2)	28,5	16	17	21,5	8,6	2	9

Plug connectors made of stainless steel and 2 seals



Additional seal

- A second FPM seal ring in front of the holding clamp additionally protects from dirt entering
- In the sealing area no scratch marks on the hose outside diameter

Extended application possibilities

- Suitable for compressed air (up to 24 bar) and certain fluids, also for high pressures, depending on application and hose up to 100 bar
- Also suitable for vacuum

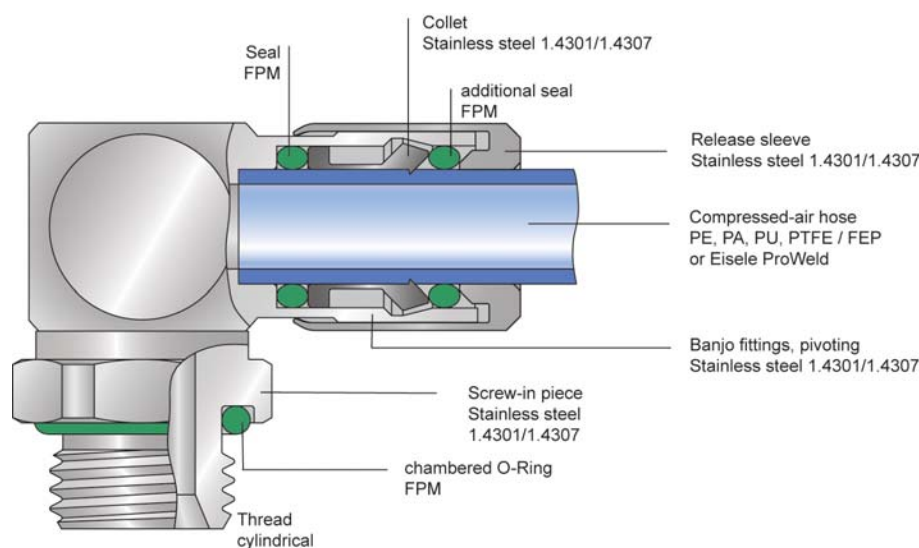
Minimizing leakage

- High seal-tightness of connections e.g. for low-pressure hydraulics, central lubrication

Also suitable for vacuum applications.

17A

Functional principle



Advantages

- Very quick assembly and disassembly of compressed-air hoses
- No tools necessary
- Frequent assembly and disassembly possible
- Full hose through-flow
- All male stud couplings sealed with chambered O-ring
- Very small connector sets even if conical threads are not used
- Connector casings made stainless steel 1.4301/ 1.4307
- Wider pressure range
- Suitable for vacuum

Special technology of the release sleeve

- Collet lies in casing and is protected from release sleeve
- Easy disassembly even when connectors are severely soiled
- Designed for easy cleaning

Special technology with additional seal

- Additional seal located prior to holding clamp
- Scratch marks are not possible on the hose outside diameter
- Additional safety from dirt entering the system

Range of application

The connection system with a special technology, with additional seal and a wider pressure range. Very quick assembly and disassembly of compressed-air hoses made of PE (polyethylene), PA (polyamide), PU (polyurethane), ProWeld (PUR) and PTFE (Teflon) / FEP.

Service conditions

Working pressure range: -0.95 to 24 bar ¹⁾

Allowable medium: Air ²⁾

Temperature range: -20 to +120 °C

Data provided apply depending on the compressed-air hoses used

¹⁾ Depending on the hoses used, pressures up to 100 bar are possible when working with fluids. Please enquire.

²⁾ May also be used with certain fluids. Please enquire.

If the sealing material FPM is not suitable for your application we kindly ask you to enquire. Our engineers will be happy to consult you in the selection of a suitable sealing material.

Hoses

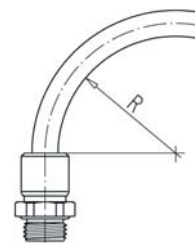
Hose dimension		Polyethylene (PE) Temperature range -10 to +40°C		Polyamide (PA) Temperature range -60 to +100°C		Polyurethane (PU) Temperature range -35 to +70°C		ProWeld (PUR) ¹⁾ Temperature range -35 to +75°C		Teflon (PTFE) /FEP ²⁾ Temperature range -35 to +120°C	
Outside-Ø	Inside-Ø	R min.	p max. (bar)	R min.	p max. (bar)	R min.	p max. (bar)	R min.	p max. (bar)	R min.	p max. (bar)
4 (±0,1)	2	20	20	20	30	8	10	6,5	20	16	25
4,3 (±0,1)	3	20	13	20	20	10	10	-	-	35	10
5 (±0,1)	3	25	15	25	25	11	10	-	-	25	20
6 (±0,15)	4	30	13	30	20	14	10	12	11	35	15
8 (±0,15)	6	40	8	40	15	20	9	18	9	65	11
10 (±0,15)	8	60	6	60	12	37,5	8	15	14	100	9
12 (±0,15)	9	60	9	85	15	48	10	24	10	100	9
14 (±0,15)	11	90	8	80	12	60	7,5	38	9	140	9
16 (±0,15)	11	90	6	90	11	43	10	44	9	-	-
20 (±0,2)	14	-	-	-	-	-	-	-	8	-	-

The mounted compressed-air hoses are not to be exposed to tensile loading.

¹⁾ In the case of Eisele ProWeld hoses a smaller inside diameter results from a partially larger wall thickness.

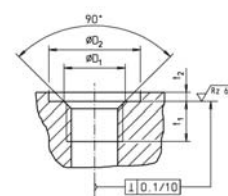
²⁾ Important notes for the use of compressed-air hoses made of PTFE (Teflon) and FEP:

- The outside diameter of compressed-air hoses must be free of grooves and other damages (e.g. damage from installation tools).
- Prior to assembly, use the Eisele hose cutter Art. No. 99605-0014 or Art. No. 99606-0022 to cut compressed-air hoses at a right angle. Ensure that hoses are not being deformed or damaged during the cutting process
- During assembly, compressed-air hoses must be pressed until the bottom of the plug connectors is felt so as to achieve proper tightness.



Connection thread

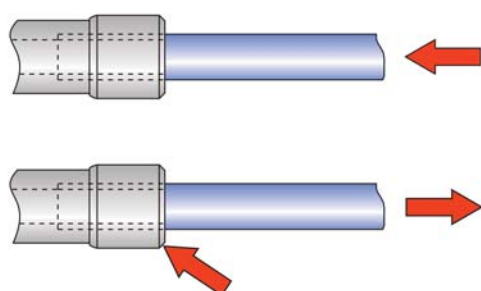
Thread	Thread depth	Thread counterbore ØD1 max. (mm)	Counterbore ¹⁾		Torque ²⁾ max. (Ncm)	Thread standards
	t1 min. (mm)		ØD2 min. (mm)	t2 max. (mm)		
M5	4.5	6	10	0.5	95	Metric thread M: DIN 13 / ISO 965
M7	5	8	12	0.5	200	
M8x1	5.5	9.2	13	0.5	650	
M10x1	5.5	11	15	1	900	
G1/8	5.5	11	15.3	1	900	Pipe thread G: DIN ISO 228
G1/4	7.5	14.2	19	1.5	1800	
G3/8	7.5	17.5	23	2	2500	
G1/2	9.5	22	27	2.5	3400	



¹⁾ A counterbore is not necessary. However, the indicated values apply if a counterbore is applied.

²⁾ Information about torques for hexagon socket on demand (assembly instructions 800 00 / 00-1)

Handling



Assembly: Push hose into the connector up to the limit stop

Disassembly: Push release sleeve, pull out hose

Threaded connectors

starting on page 23



Straight threaded connectors

page 23



Angled threaded connectors

page 25

17A

Plug connector

starting on page 26



Double connectors

page 26



T connectors

page 26



Bulkhead connectors

page 27



Bulkhead connector with female thread

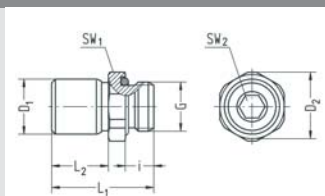
page 27

Accessories

starting on page 42

Screw-in connector

- Whitworth pipe thread
- Chambered O-ring
- Seals FPM
- Material 1.4301 / 1.4307
- Temperature range: -20 to +120 °C
- Pressure range: -0,95 to 24 bar

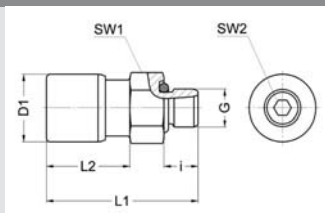


Part no.	G	for hose	SW1	SW2	i	L1	L2	D1	D2	NW	g/piece
VT1728-0202	G1/8	OD4 (4/2)	13	3	5,5	19	9,5	8,8	14,2	2	9
VT1728-0204	G1/8	OD6 (6/4)	13	5	5,5	24,5	15	11,6	14,2	4	12
VT1728-0206	G1/8	OD8 (8/6)	14	5	5,5	29	19	14,8	15,2	5,1	19
VT1728-0402	G1/4	OD4 (4/2)	17	3	7,5	21,5	9,5	8,8	18,5	2	17
VT1728-0404	G1/4	OD6 (6/4)	17	5	7,5	23,5	11,5	11,6	18,5	4	18
VT1728-0406	G1/4	OD8 (8/6)	17	6	7,5	27	15	14,8	18,5	6	22
VT1728-0408	G1/4	OD10 (10/8)	17	8	7,5	34	22	16,8	18,5	8	27
VT1728-0409	G1/4	OD12 (12/9)	20	9	7,5	38,5	23,5	20,1	21,8	9	41
VT1728-0604	G3/8	OD6 (6/4)	20	5	7,5	24,5	11,5	11,6	21,8	4	28
VT1728-0606	G3/8	OD8 (8/6)	20	6	7,5	28	15	14,8	21,8	6	31
VT1728-0608	G3/8	OD10 (10/8)	20	8	7,5	30,5	17,5	16,8	21,8	8	33
VT1728-0609	G3/8	OD12 (12/9)	20	9	7,5	36,5	23,5	20,1	21,8	9	41
VT1728-0804	G1/2	OD6 (6/4)	24	5	9,5	27,5	11,5	11,6	26,2	4	52
VT1728-0806	G1/2	OD8 (8/6)	24	6	9,5	30,5	15	14,8	26,2	6	44
VT1728-0808	G1/2	OD10 (10/8)	24	8	9,5	33	17,5	16,8	26,2	8	53
VT1728-0809	G1/2	OD12 (12/9)	24	9	9,5	36,5	21	20,1	26,2	9	42

17A

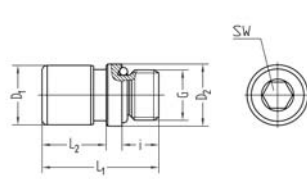
Screw-in connector

- Metric thread
- Chambered O-ring
- Seals FPM
- Material 1.4301 / 1.4307
- Temperature range: -20 to +120 °C
- Pressure range: -0,95 to 24 bar



Part no.	G	for hose	SW1	SW2	i	L1	L2	D1	NW	g/piece
VT1729-5002	M5	OD4 (4/2)	8	2	4,5	20	11	8,8	2	5
VT1729-5004	M5	OD6 (6/4)	11	2	4,5	24,5	14,5	11,6	2	10
VT1729-4802	M7	OD4 (4/2)	10	3	5	20	10,5	8,8	2	6
VT1729-4804	M7	OD6 (6/4)	11	3	5	24	14,5	11,6	3	10
VT1729-5202	M8	OD4 (4/2)	11	3	5,5	18,5	9,5	8,8	2	6
VT1729-5204	M8	OD6 (6/4)	11	3	5,5	24,5	14,5	11,6	3	10

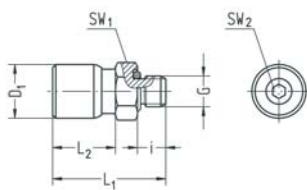
Screw-in connector



- Whitworth pipe thread
- With hexagon socket
- Chambered O-ring
- Seals FPM
- Material 1.4301 / 1.4307
- Temperature range: -20 to +120 °C
- Pressure range: -0,95 to 24 bar

Part no.	G	for hose	SW	i	L1	L2	D1	D2	NW	g/piece
VT1762-0202	G1/8	OD4 (4/2)	3	5,5	19	9,5	8,8	11,9	2	7
VT1762-0204	G1/8	OD6 (6/4)	5	5,5	24,5	14,5	11,6	11,9	4	10
VT1762-0206	G1/8	OD8 (8/6)	5	5,5	28,5	-	14,8	11,9	5,2	16
VT1762-0402	G1/4	OD4 (4/2)	3	7,5	21,5	9,5	8,8	15,9	2	16
VT1762-0404	G1/4	OD6 (6/4)	5	7,5	23,5	11,5	11,6	15,9	4	16
VT1762-0406	G1/4	OD8 (8/6)	6	7,5	27	14	14,8	15,9	6	20
VT1762-0408	G1/4	OD10 (10/8)	8	7,5	33,5	20	16,8	16,9	8	27
VT1762-0409	G1/4	OD12 (12/9)	8	7,5	39	25,5	20,1	19,9	8,2	41
VT1762-0606	G3/8	OD8 (8/6)	6	7,5	26,5	14	14,8	19,9	6	28
VT1762-0608	G3/8	OD10 (10/8)	8	7,5	30,5	18	16,8	19,9	8	32
VT1762-0609	G3/8	OD12 (12/9)	9	7,5	38,5	25,5	20,1	19,9	9	42

Screw-in connector

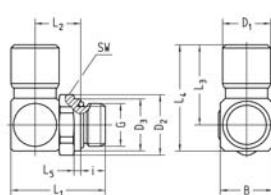


- Metric thread
- With hexagon socket
- Chambered O-ring
- Seals FPM
- Material 1.4301 / 1.4307
- Temperature range: -20 to +120 °C
- Pressure range: -0,95 to 24 bar

Part no.	G	for hose	SW	i	L1	L2	D1	D2	NW	g/piece
VT1763-5002	M5	OD4 (4/2)	2,5	4,5	20	12	8,8	7,9	2	5
VT1763-5004	M5	OD6 (6/4)	2,5	4,5	24,5	-	11,6	7,9	2,5	8
VT1763-4602	M6	OD4 (4/2)	3	4,5	20	12	8,8	8,9	2	10
VT1763-4802	M7	OD4 (4/2)	3	5	20,5	10,5	8,8	9,9	2	7
VT1763-4804	M7	OD6 (6/4)	3	5	24	-	11,6	9,9	3,2	9
VT1763-5202	M8x1	OD4 (4/2)	3	5,5	18,5	9,5	8,8	10,9	2	6
VT1763-5204	M8x1	OD6 (6/4)	3	5,5	24,5	14,5	11,6	10,9	3,2	10
VT1763-5402	M10x1	OD4 (4/2)	3	5,5	19	9,5	8,8	11,9	2	8
VT1763-5404	M10x1	OD6 (6/4)	5	5,5	24,5	14,5	11,6	11,9	4	11
VT1763-5406	M10x1	OD8 (8/6)	5	5,5	28,5	-	14,8	11,9	5,2	16

Elbow screw-in connector swiveling

- Whitworth pipe thread
- Chambered O-ring
- Seals FPM
- Material 1.4301 / 1.4307
- Temperature range: -20 to +120 °C
- Pressure range: -0,95 to 24 bar

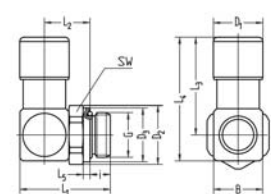


Part no.	G	for hose	SW	i	L1	L2	L3	L4	B	D1	D2	D3	NW	g/piece
VT1786-0202	G1/8	OD4 (4/2)	13	5,5	20,2	10,4	17,5	21,5	8,5	8,8	14,2	11,9	2	14
VT1786-0204	G1/8	OD6 (6/4)	13	5,5	22,8	11,7	22,5	28,5	12	11,6	14,2	11,9	4	22
VT1786-0206	G1/8	OD8 (8/6)	14	5,5	26,2	13,4	27	35	16	14,8	15,2	11,9	5,5	41
VT1786-0208	G1/8	OD10 (10/8)	17	5,5	28,2	14,4	31	40	18	16,8	18,5	11,9	5,5	59
VT1786-0209	G1/8	OD12 (12/9)	20	5,5	31,5	16,5	38	48,5	21	20,1	21,8	11,9	5,5	94
VT1786-0402	G1/4	OD4 (4/2)	17	7,5	24,2	12,4	17,5	21,5	8,5	8,8	18,5	15,9	2	22
VT1786-0404	G1/4	OD6 (6/4)	17	7,5	25,3	12,2	22,5	28,5	12	11,6	18,5	15,9	4	30
VT1786-0406	G1/4	OD8 (8/6)	17	7,5	28,7	13,9	27	35	16	14,8	18,5	15,9	6	44
VT1786-0408	G1/4	OD10 (10/8)	17	7,5	30,5	14,9	31	40	18	16,8	18,5	15,9	8	59
VT1786-0409	G1/4	OD12 (12/9)	20	7,5	34	17	38	48,5	21	20,1	21,8	19,9	8	92
VT1786-0604	G3/8	OD6 (6/4)	20	7,5	26,3	13,2	22,5	28,5	12	11,6	21,8	19,9	4	39
VT1786-0606	G3/8	OD8 (8/6)	20	7,5	29,7	14,8	27	35	16	14,8	21,8	19,9	6	44
VT1786-0608	G3/8	OD10 (10/8)	20	7,5	30,5	15,9	31	40	18	16,8	21,8	19,9	8	67
VT1786-0609	G3/8	OD12 (12/9)	20	7,5	34	17	38	48,5	21	20,1	21,8	19,9	9	87
VT1786-0804	G1/2	OD6 (6/4)	24	9,5	29,3	14,2	22,5	28,5	12	11,6	26,2	24	4	51
VT1786-0806	G1/2	OD8 (8/6)	24	9,5	31,7	14,9	27	35	16	14,8	26,2	24	6	66
VT1786-0808	G1/2	OD10 (10/8)	24	9,5	33,7	15,9	31	40	18	16,8	26,2	24	8	78
VT1786-0809	G1/2	OD12 (12/9)	24	9,5	36	17	38	48,5	21	20,1	26,2	24	9	103

17A

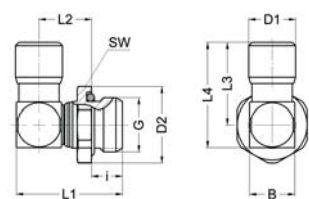
Elbow screw-in connector swiveling

- Metric thread
- Chambered O-ring
- Seals FPM
- Material 1.4301 / 1.4307
- Temperature range: -20 to +120 °C
- Pressure range: -0,95 to 24 bar



Part no.	G	for hose	SW	i	L1	L2	L3	L4	B	D1	D2	D3	NW	g/piece
VT1787-5002	M5	OD4 (4/2)	8	4,5	17,2	8,4	17,5	21,5	8,5	8,8	-	-	2	9
VT1787-5004	M5	OD6 (6/4)	8	4,5	19,7	9,7	21,3	26	11	11,6	-	-	2,2	16
VT1787-4802	M7	OD4 (4/2)	10	5	17,7	8,4	17,5	21,5	8,5	8,8	-	-	2	11
VT1787-4804	M7	OD6 (6/4)	10	5	20,3	9,7	22,5	28,5	12	11,6	-	-	4	19
VT1787-4602	M6	OD4 (4/2)	10	5	17,8	8,5	17,5	21,5	8,5	8,8	-	-	2	10
VT1787-5202	M8x1	OD4 (4/2)	11	5,5	20,2	11,4	17,5	21,5	8,5	8,8	12,1	10,9	2	19
VT1787-5204	M8x1	OD6 (6/4)	11	5,5	22,2	11,4	22,5	28,5	12	11,6	12,1	10,9	4	21
VT1787-5402	M10x1	OD4 (4/2)	13	5,5	20,2	11,4	17,5	21,5	8,5	8,8	14,2	11,9	2	14
VT1787-5404	M10x1	OD6 (6/4)	13	5,5	22,8	11,7	22,5	28,5	12	11,6	14,2	11,9	3,5	22
VT1787-5406	M10x1	OD8 (8/6)	14	5,5	26,2	13,4	27	35	16	14,8	15,2	11,9	5	40

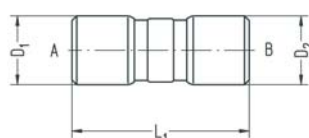
Elbow screw-in connector swiveling



- Whitworth pipe thread
- Chambered O-ring
- Seals FPM
- Material 1.4301 / 1.4307
- Temperature range: -20 to +120 °C
- Pressure range: -0,95 to 24 bar

Part no.	G	for hose	SW	i	L1	L2	L3	L4	B	D1	D2	NW	g/piece
VT1704-0404	G1/4	OD6 (6/4)	17	7,5	27	14	22	27,5	11	11,6	18,5	4,5	29
VT1704-0604	G3/8	OD6 (6/4)	17	7,5	27	14	22	27,5	11	11,6	21,8	4,5	31

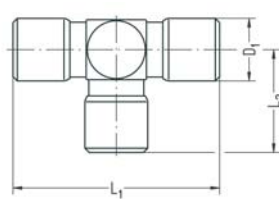
Double connector



- Seals FPM
- Material 1.4301 / 1.4307
- Temperature range: -20 to +120 °C
- Pressure range: -0,95 to 24 bar

Part no.	for hose A	for hose B	L1	D1	D2	NW	g/piece
VT1733-0202	OD4 (4/2)	OD4 (4/2)	29	8,8	8,8	2	9
VT1733-0404	OD6 (6/4)	OD6 (6/4)	35	11,6	11,6	4	15
VT1733-0606	OD8 (8/6)	OD8 (8/6)	41,5	14,8	14,8	6	29
VT1733-0808	OD10 (10/8)	OD10 (10/8)	48	16,8	16,8	8	40
VT1733-0909	OD12 (12/9)	OD12 (12/9)	58	20,1	20,1	9	67

T connector

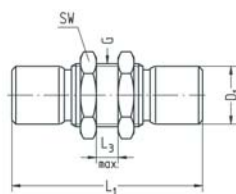


- Seals FPM
- Material 1.4301 / 1.4307
- Temperature range: -20 to +120 °C
- Pressure range: -0,95 to 24 bar

Part no.	for hose	L1	L2	D1	NW	g/piece
VT1778-0200	OD4 (4/2)	36	17,5	8,8	2	13
VT1778-0400	OD6 (6/4)	44	23	11,6	4	27
VT1778-0600	OD8 (8/6)	53	27,5	14,8	6	53
VT1778-0800	OD10 (10/8)	61	32	16,8	8	75
VT1778-0900	OD12 (12/9)	74	36,5	20,1	9	124

Bulkhead connector

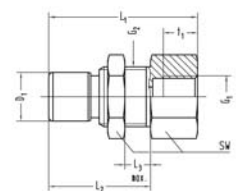
- Seals FPM
- Material 1.4301 / 1.4307
- Temperature range: -20 to +120 °C
- Pressure range: -0,95 to 24 bar



Part no.	for hose	G	SW	L1	L3 max.	D1	NW	g/piece
VT1780-0202	OD4 (4/2)	M12x1	14	33	6	8,8	2	20
VT1780-0404	OD6 (6/4)	M14x1	17	42	8	11,6	4	36
VT1780-0606	OD8 (8/6)	M16x1	19	48	8	14,8	6	51
VT1780-0808	OD10 (10/8)	M18x1	22	57	10	16,8	8	78
VT1780-0909	OD12 (12/9)	M22x1	27	61	12	20,1	9	119

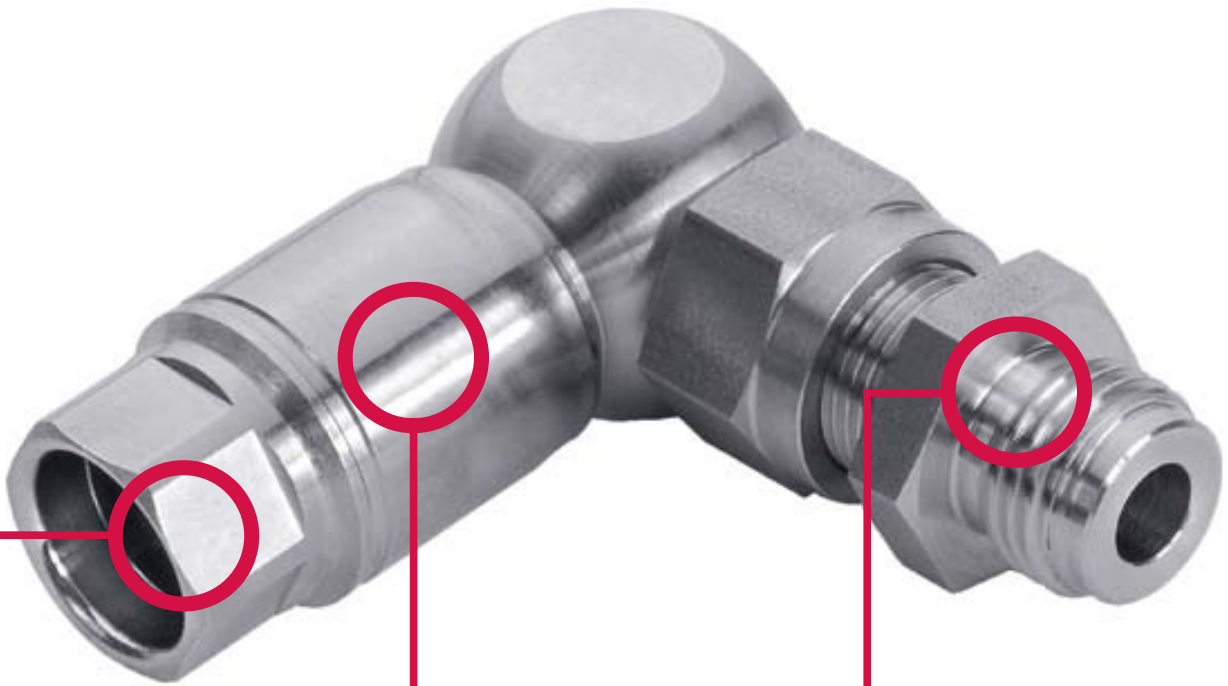
Bulkhead connector with female thread

- Seals FPM
- Material 1.4301 / 1.4307
- Temperature range: -20 to +120 °C
- Pressure range: -0,95 to 24 bar



Part no.	G1	for hose	G2	SW	L1	L2	L3 max.	D1	t1	NW	g/piece
1702-0102	G1/8	OD4 (4/2)	M12x1	14	29	18,5	6	8,8	8	2	20

Connectors for connections without dead spaces

**Patent-registered and
innovativ**

- For applications without dead spaces, where no accumulation of the system is allowed.

**Flexible and
safe in handling**

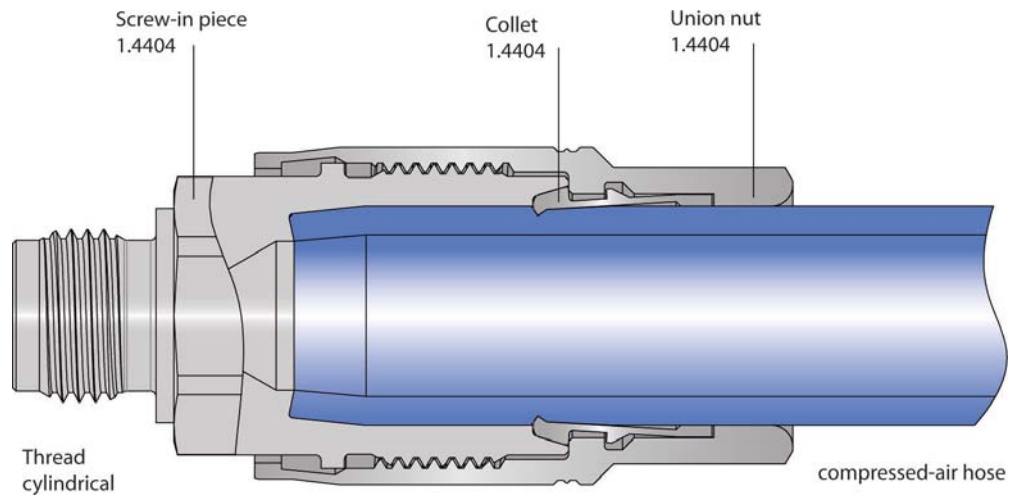
- With the combined plug-screw-mounting the hose-fitting connection could be mounted by only one rotation of the union nut.
- Unintentional opening of the union nut is not possible.

**Versatile and
quick applicable**

- Quick, economic assembly and disassembly; low system costs.
- Hose conditioning possible on-site. Hoses don't have to be pre-fabricated.

3600

Functional principle

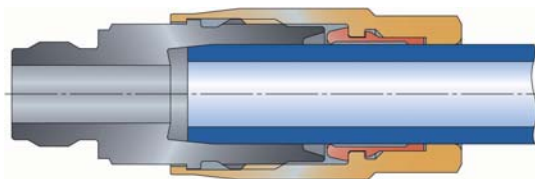


Advantages

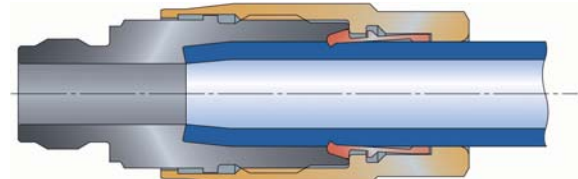
- Patent-registered solution without dead spaces
- No gaps for accumulation
- Internal sterilization possible
- Simple internal cleaning
- Quick changes of the medium possible
- Simple and safe sealing concept
- well-engineered connection system
- small sizes available

additional options

- Other materials
- Thread designs to your requirements (on request)
- Integrated valves, e.g. with check valve or throttle function



Hose disconnected



Hose connected

Service conditions

- Working pressure range: -0,95 to 25 bar
- Temperature range: 0 to + 80°C, depending on the hose-material and the pressure
- No gaps where accumulation is possible
- Huge through flow
- Fitting made of stainless steel 1.4404
- Suitable for hoses made of PA, PTFE and FEP; other materials on request
- Simple and safe sealing concept
- well-engineered connection system

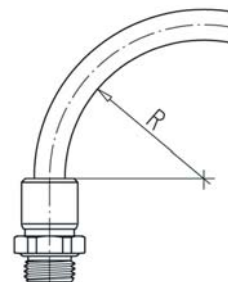
Hoses

Hose dimension		Polyamide (PA) Temperature range -20 to +80°C		Teflon (PTFE/ FEP) ¹⁾ Temperature range -190 to +260°C	
Outside-Ø	Inside-Ø	R min.	P max. (bar)	R min.	P max. (bar)
12 (+0,15/-0,1)	9	95	15	100	10

The mounted hoses are not to be exposed to tensile loading.

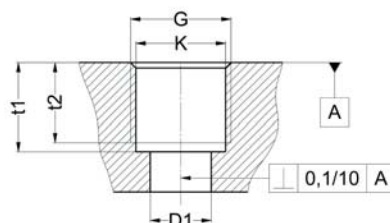
¹⁾ Important notes for the use of hoses made of PTFE (Teflon) and FEP:

- The outside diameter of hoses must be free of grooves and other damages (e.g. damage from installation tools).
- Prior to assembly, use the Eisele hose cutter Art. No. 99605-0014 or Art. No. 99606-0022 to cut hoses at a right angle. Ensure that hoses are not being deformed or damaged during the cutting process.
- Afterwards the hose must be finished regarding Eisele drawing MV3628-...



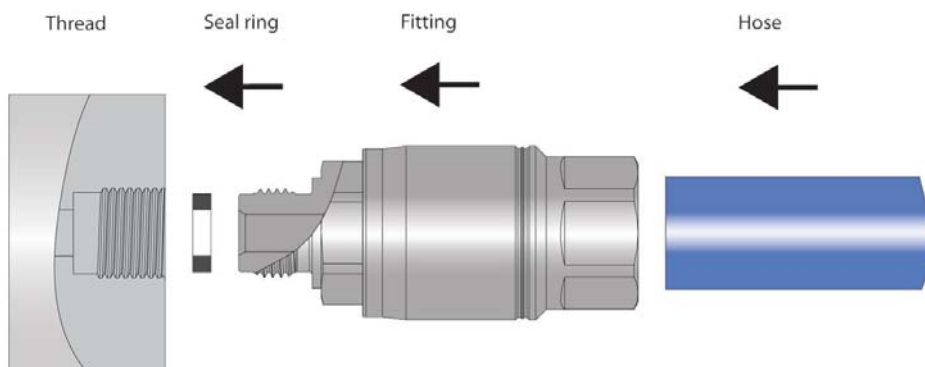
Connection thread

Thread	Core hole-Ø K (mm)	Thread counterbore		ØD1 min. (mm)	Torque max. (Nm)	Seal ring	Thread standards
		t1 min. (mm)	t2 min. (mm)				
G1/4	11,75 (±0,1)	11,7 (+0,1)	10,5 (+0,5)	8	12	3615-04	Pipe thread G:
G3/8	15,2 (±0,1)	13,7 (+0,1)	12 (+0,5)	10	12	3615-06	DIN ISO 228



Handling

assembly instruction regarding Eisele drawing MV3628-...



Threaded connectors

starting on page 33



Straight threaded connectors

page 33



Angled threaded connectors

page 33



Bulkhead connectors

page 33



Adapter hose-pipe

page 33

3600

Accessories series 3600

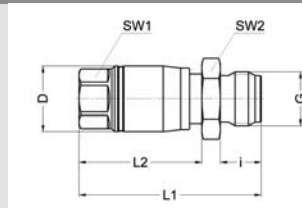
page 34

Accessories

starting on page 42

Screw-in connector

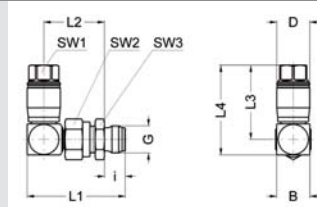
- Whitworth pipe thread
- Material 1.4404
- Temperature range 0 to +80 °C
- Working pressure range -0,95 to 25 bar
- Specified data depending on the material of the hose
- Assembly instructions MV3628-...



Part no.	G	for hose	SW1	SW2	i	L1	L2	D	NW	g/piece
3628-040900	G1/4	OD12 (12/9)	15	17	10	46,5	32	18,8	8	44
3628-060900	G3/8	OD12 (12/9)	15	19	12	49	32	18,8	8	51

Elbow screw-in connector

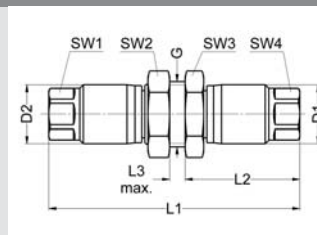
- Whitworth pipe thread
- Material 1.4404
- Temperature range 0 to +80 °C
- Working pressure range -0,95 to 25 bar
- Specified data depending on the material of the hose
- Assembly instructions MV3628-...



Part no.	G	for hose	SW1	SW2	SW3	i	L1	L2	L3	L4	B	D	NW	g/piece
3661-040900	G1/4	OD12 (12/9)	15	19	17	10	52	33	39	48	17	18,8	8	112
3661-060900	G3/8	OD12 (12/9)	15	19	19	12	54,5	33,5	39	48	17	18,8	8	120

Bulkhead connector

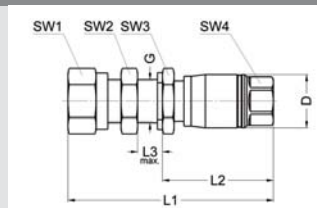
- Material 1.4404
- Temperature range 0 to +80 °C
- Working pressure range -0,95 to 25 bar
- Specified data depending on the material of the hose
- Assembly instructions MV3628-...



Part no.	for hose A	for hose B	SW1	SW2	SW3	SW4	L1	L2	L3 max.	G	D1	D2	NW	g/piece
3680-000909	OD12 (12/9)	OD12 (12/9)	15	24	24	15	81	37	6	G1/2	18,8	18,8	8	126

Adapter hose - pipe

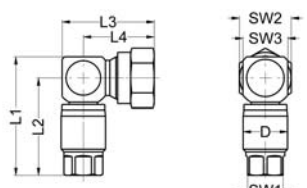
- Material 1.4404
- Temperature range 0 to +80 °C
- Working pressure range -0,95 to 25 bar
- Specified data depending on the material of the hose
- Assembly instructions MV3628-...



Part no.	for hose A	for pipe B	SW1	SW2	SW3	SW4	L1	L2	L3 max.	G	D	NW	g/piece
3694-000909	OD12 (12/9)	AD12 (12/9)	22	22	22	15	68	38	6	M18x1,5	18,8	8	118

3600

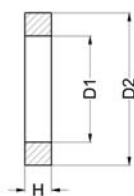
Elbow-Adapter hose - pipe



- Material 1.4404
- Temperature range 0 to +80 °C
- Working pressure range -0,95 to 25 bar
- Specified data depending on the material of the hose
- Assembly instructions MV3628-...

Part no.	for hose A	for pipe B	SW1	SW2	SW3	L1	L2	L3	L4	D	NW	g/piece
3677-090900	OD 12 (12/9)	AD 12 (12/9)	15	22	19	50,3	41,3	39	30	18,8	8	112

seal ring



- For Whitworth pipe thread
- Material PTFE
- Temperature range 0 to +80 °C
- Working pressure range 0 to 25 bar

Part no.	for thread	D1	D2	H	g/piece
3615-04	G1/4	8	11,5	2	0,10
3615-06	G3/8	10	14,9	2	0,30

Hose sharpener



- Hose sharpener to cut the hose regarding Eisele drawing MV3628-...

Part no.	for hose	g/piece
WZ660-09	OD12 (12/9)	56

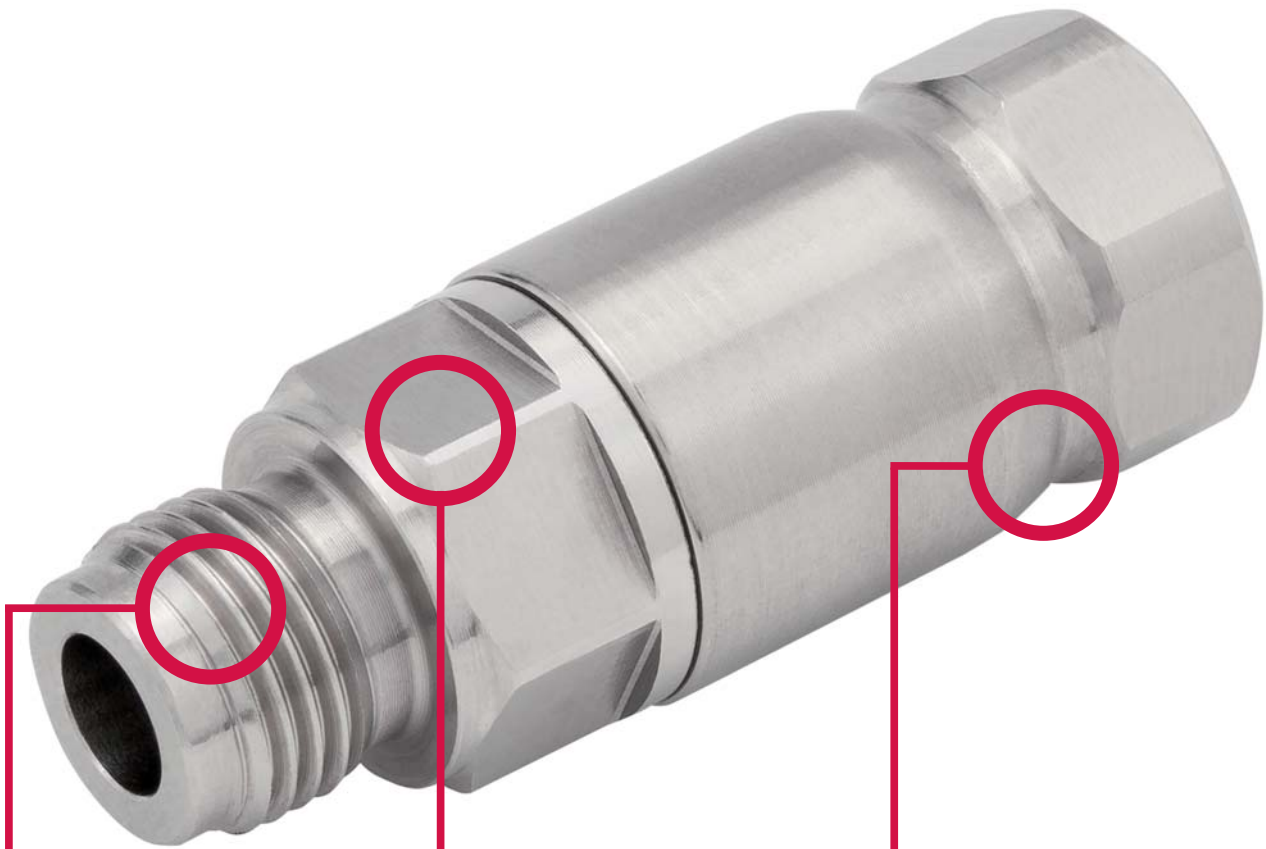
sleeve for hose marking



- Sleeve to mark the hose regarding Eisele drawing MV3628-...
- To determine how deep the hose must be pushed inside the fitting

Part no.	for hose
WZ688-12	OD12 (12/9)

Comfort screw-in connectors for connections without gaps



Patent-registered and innovativ

- For applications without dead spaces, where hardly none accumulation of the system is allowed

Flexible and safe in handling

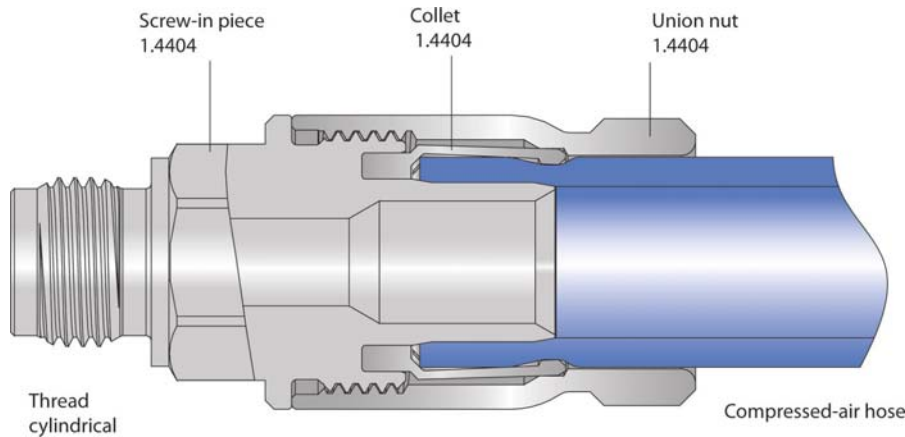
- With the combined plug-screw-mounting the hose-fitting connection could be mounted by only one rotation of the union nut.
- Unintentional opening of the union nut is not possible.

Versatile and quick applicable

- Quick, economic assembly and disassembly; low system costs
- Quick assembly of the hose; no additional preparation of the hose

3800

Functional principle



Advantages

- Patent-registered solution nearly without dead spaces
- No gaps for accumulation
- Internal sterilization possible
- Simple internal cleaning
- Quick changes of the medium possible
- Simple and safe sealing concept
- well-engineered connection system
- small sizes available

additional options

- Other materials
- Thread designs to your requirements (on request)
- Integrated valves, e.g. with check valve or throttle function

Service conditions

- Working pressure range: -0,95 to 25 bar
- Temperature range: 0 to + 80°C, depending on the hose-material and the pressure
- No gaps where accumulation is possible
- Huge through flow
- Fitting made of stainless steel 1.4404
- Suitable for hoses made of PE, PA, PTFE and FEP; other materials on request
- Simple and safe sealing concept
- well-engineered connection system

Range of application

Packaging systems

Quick product changes with minimal residue in the system

Pharmaceutical and medical technology sectors

Sterilization of the system enables high efficiency

Clean-room technology

Connectors for clean-room technology on request

Cleaning systems

Cleaning and washing systems with minimal danger of germs

Lines for food industry

No accumulation in dead spaces; ensures continuously fresh products

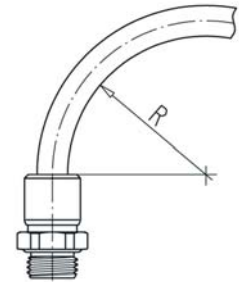
Hoses

Hose dimension		Polyethylene (PE) Temperature range -10 to +40°C		Polyamide (PA) Temperature range -20 to +80°C		Teflon (PTFE/ FEP) ¹⁾ Temperature range -190 to +260°C	
Outside-Ø	Inside-Ø	R min.	P max. (bar)	R min.	P max. (bar)	R min.	P max. (bar)
12 (+0,15/-0,1)	9 (±0,15)	75	7	95	15	100	10

The mounted hoses are not to be exposed to tensile loading.

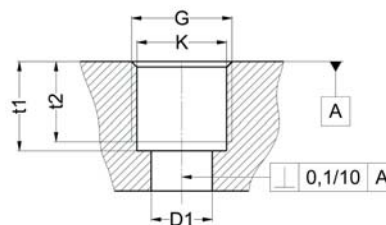
¹⁾ Important notes for the use of hoses made of PTFE (Teflon) and FEP:

- The outside diameter of hoses must be free of grooves and other damages (e.g. damage from installation tools).
- Prior to assembly, use the Eisele hose cutter Art. No. 99605-0014 or Art. No. 99606-0022 to cut hoses at a right angle. Ensure that hoses are not being deformed or damaged during the cutting process.



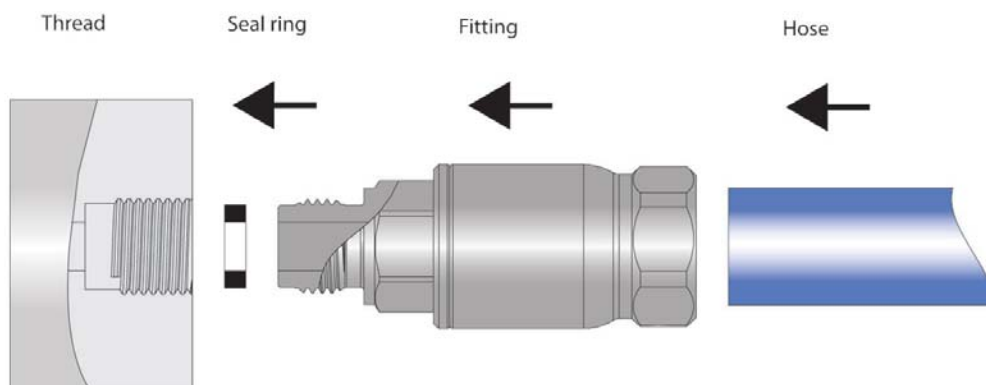
Connection thread

Thread	Core hole-Ø K (mm)	Thread counterbore		ØD1 min. (mm)	Torque max. (Nm)	Seal ring	Thread standards
		t1 min. (mm)	t2 min. (mm)				
G1/4	11,75 (±0,1)	11,7 (+0,1)	10,5 (+0,5)	8	12	3615-04	Pipe thread G:
G3/8	15,2 (±0,1)	13,7 (+0,1)	12 (+0,5)	10	12	3615-06	DIN ISO 228



Handling

assembly instruction regarding Eisele drawing MV3828-...



Threaded connectors

starting on page 39



Straight threaded connectors

page 39



Angled threaded connectors

page 39



Bulkhead connectors

page 39

Accessories series 3800

page 39

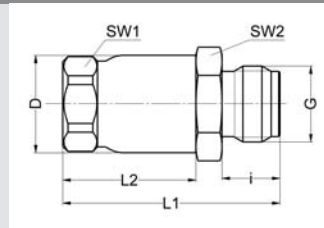
Accessories

starting on page 42

3800

Screw-in connector

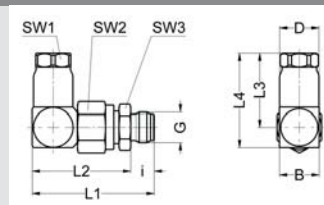
- Whitworth pipe thread
- Material 1.4404
- Temperature range 0 to +80 °C
- Working pressure range -0,95 to 25 bar
- Specified data depending on the material of the hose
- Assembly instructions MV3628-...



Part no.	G	for hose	SW1	SW2	i	L1	L2	D	NW	g/piece
3828-040900	G1/4	OD12 (12/9)	15	17	10	37,5	23	16,8	7	33
3828-060900	G3/8	OD12 (12/9)	15	19	12	40	23	16,8	7	41

Elbow screw-in connector

- Whitworth pipe thread
- Material 1.4404
- Temperature range 0 to +80 °C
- Working pressure range -0,95 to 25 bar
- Specified data depending on the material of the hose
- Assembly instructions MV3628-...

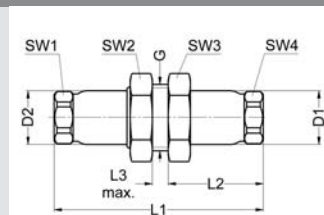


Part no.	G	for hose	SW1	SW2	SW3	i	L1	L2	L3	L4	B	D	NW	g/piece
3861-040900	G1/4	OD12 (12/9)	15	19	17	10	52	33	31,6	40,2	17	16,8	7	104
3861-060900	G3/8	OD12 (12/9)	15	19	19	12	54,5	33,5	31,6	40,2	17	16,8	7	116

3800

Bulkhead connector

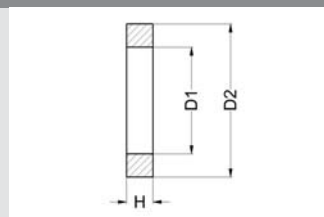
- Whitworth pipe thread
- Material 1.4404
- Temperature range 0 to +80 °C
- Working pressure range -0,95 to 25 bar
- Specified data depending on the material of the hose
- Assembly instructions MV3628-...



Part no.	for hose A	for hose B	SW1	SW2	SW3	SW4	L1	L2	L3 max.	G	D1	D2	NW	g/piece
3880-000909	OD 12 (12/9)	OD 12 (12/9)	15	24	24	15	66	30	6	G1/2	16,8	16,8	7	110

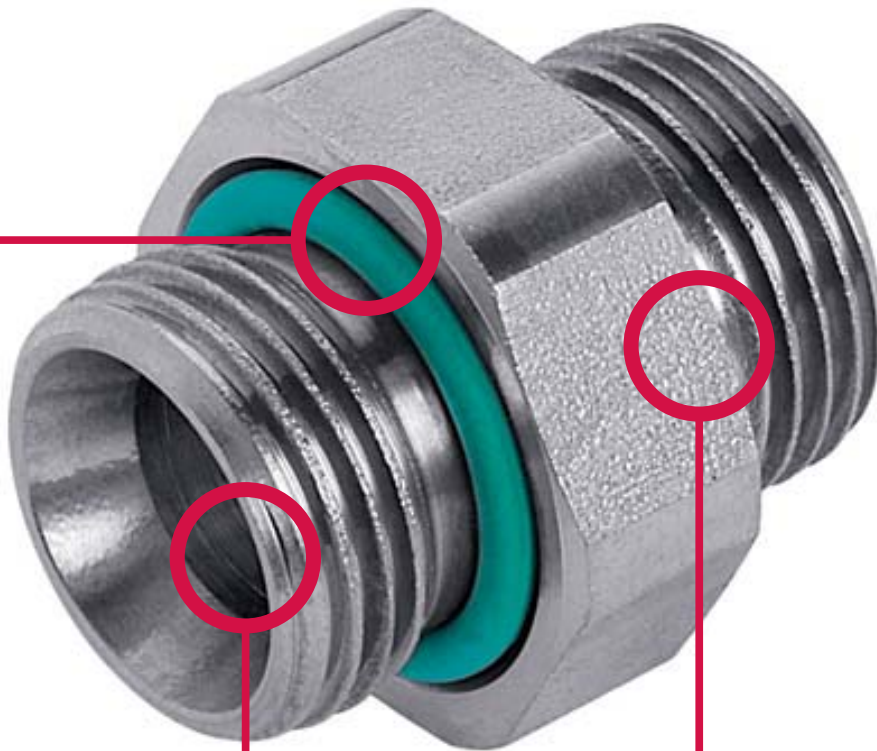
seal ring

- For Whitworth pipe thread
- Material PTFE
- Temperature range 0 to +80 °C
- Working pressure range 0 to 25 bar



Part no.	for thread	D1	D2	H	g/piece
3615-04	G1/4	8	11,5	2	0,10
3615-06	G3/8	10	14,9	2	0,30

Accessories

**All metal
body**

- Stainless steel, suitable for almost all media
- High-quality seals made of FPM; optional NBR, EPDM or other materials

**High flexibility
due to many types**

- Reductions
- Closure screw
- Removable double nipple
- lots of standardized connection solutions

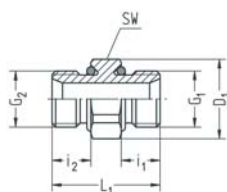
**Proved
quality**

- Cylindric thread as a standard
- All types of threads are possible
- Customized connection solutions on request

The ideal supplement for the Eisele INOXLINE connections.

ACC

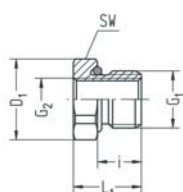
Double nipple



- Whitworth pipe thread, thread M5
- With inner cone according to DIN EN 560
- Chambered O-rings FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

Part no.	G1	G2	SW	D1	i1	i2	L1	NW	g/piece
1141-5050	M5	M5	8	-	4,5	4,5	13,5	2,5	2
1142-0202	G1/8	G1/8	13	14,2	7	7	20	5,5	9
1142-0404	G1/4	G1/4	17	18,5	9	9	25	7,5	20
1142-0606	G3/8	G3/8	22	23,8	9	9	26	10	34
1142-0808	G1/2	G1/2	24	26,2	11	11	30,5	12,5	53
1143-0250	G1/8	M5	13	14,2	7	4,5	17,5	2,5	8
1143-0402	G1/4	G1/8	17	18,5	9	7	23	5,5	19
1143-0604	G3/8	G1/4	22	23,8	9	9	26	7,5	33
1143-0806	G1/2	G3/8	24	26,2	11	9	28,5	10	48

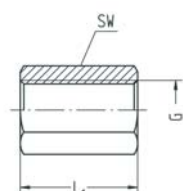
Thread adapter



- Whitworth pipe thread, thread M5
- Chambered O-ring FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

Part no.	G1	G2	SW	D1	i	L1	g/piece
1170-0249	G1/8	M5	13	14,2	7	11	7
1170-0401	G1/4	G1/8	17	18,5	9	13,5	10
1170-0449	G1/4	M5	17	18,5	9	13,5	15
1170-0601	G3/8	G1/8	22	23,8	9	14,5	24
1170-0603	G3/8	G1/4	22	23,8	9	14,5	19
1170-0803	G1/2	G1/4	24	26,2	11	17	35
1170-0805	G1/2	G3/8	24	26,2	11	17	25

Sleeve

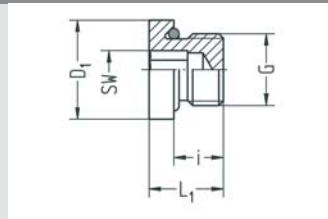


- Whitworth pipe thread, thread M5
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

Part no.	G	SW	L1	g/piece
1159-0100	G1/8	14	17	15
1159-0300	G1/4	17	21	24
1159-0500	G3/8	22	21	39
1159-0700	G1/2	27	25	88
1160-4900	M5	8	9,5	3

Closure screw

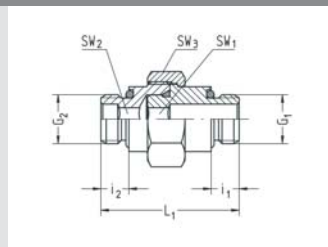
- Whitworth pipe thread, thread M5
- With hexagon socket
- Chambered O-ring FPM
- Material stainless steel 1.4301/1.4307
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar



Part no.	G	SW	i	L1	D1	g/piece
1123-0200	G1/8	5	7	11	14	7
1123-0400	G1/4	6	9	13,5	18	14
1123-0600	G3/8	8	9	14	22	22
1123-0800	G1/2	10	11	16	26	38
1123-1000	G3/4	10	12	18	32	74
1124-5000	M5	2,5	4,5	7	8	1

Double nipple removable

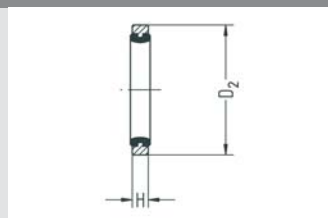
- With chambered O-rings
- Constant distance dimension
- Whitworth pipe thread
- Sealing FPM
- Torque for union nut see table
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar
- Material: 1.4301/ 1.4307



Part no.	G1	G2	SW1	SW2	SW3	i1	i2	L1	NW	M max. (Ncm)	g/piece
1176-0202	G1/8	G1/8	5	5	19	5,5	5,5	30	5,1	700	31
1176-0404	G1/4	G1/4	6	6	22	7,5	7,5	37	6,1	1500	55
1176-0606	G3/8	G3/8	8	8	27	7,5	7,5	39,5	8,2	2200	95
1176-0808	G1/2	G1/2	12	12	30	9,5	9,5	46	12,3	4000	117
1176-1010	G3/4	G3/4	14	14	41	10,5	10,5	59	14,3	6000	382
1176-1212	G1	G1	19	19	50	12,5	12,5	69	19,4	8000	530

VS seal ring

- For whitworth pipe thread
- Sealing material FPM, FDA compliant according to 21 CFR 177.2600
- Spacer ring 1.4307
- Large torque possible
- Undetachable
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 30 bar



Part no.	for thread	D2	H	g/piece
915-0122	G1/8 and M10x1	14,7	2,2	1
915-0322	G1/4	17,7	2,2	1

ACC

Color coding

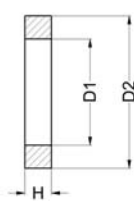


- Material aluminum anodized
- Fits all Eisele plug connectors

Part no.	for hose	Color	g/piece
SA1394-1102	OD4 (4/2)	red	1
SA1394-1104	OD6 (6/4)	red	1
SA1394-1106	OD8 (8/6)	red	1
SA1394-1108	OD10 (10/8)	red	1
SA1394-1109	OD12 (12/9)	red	1
SA1394-1111	OD14 (14/11)	red	1
SA1394-1112	OD16 (16/12)	red	1
SA1394-1202	OD4 (4/2)	green	1
SA1394-1204	OD6 (6/4)	green	1
SA1394-1206	OD8 (8/6)	green	1
SA1394-1208	OD10 (10/8)	green	1
SA1394-1209	OD12 (12/9)	green	1
SA1394-1211	OD14 (14/11)	green	1
SA1394-1212	OD16 (16/12)	green	1
SA1394-1302	OD4 (4/2)	blue	1
SA1394-1304	OD6 (6/4)	blue	1
SA1394-1306	OD8 (8/6)	blue	1
SA1394-1308	OD10 (10/8)	blue	1
SA1394-1309	OD12 (12/9)	blue	1
SA1394-1311	OD14 (14/11)	blue	1
SA1394-1312	OD16 (16/12)	blue	1

ACC

seal ring



- For Whitworth pipe thread
- Material PTFE
- Temperature range 0 to +80 °C
- Working pressure range 0 to 25 bar

Part no.	for thread	D1	D2	H	g/piece
3615-04	G1/4	8	11,5	2	0,10
3615-06	G3/8	10	14,9	2	0,30

Hose sharpener

- Hose sharpener to cut the hose regarding Eisele drawing MV3628-...



Part no.	for hose	g/piece
WZ660-09	OD12 (12/9)	56

sleeve for hose marking

- Sleeve to mark the hose regarding Eisele drawing MV3628-...
- To determine how deep the hose must be pushed inside the fitting



Part no.	for hose
WZ688-12	OD12 (12/9)

Customised connection solutions



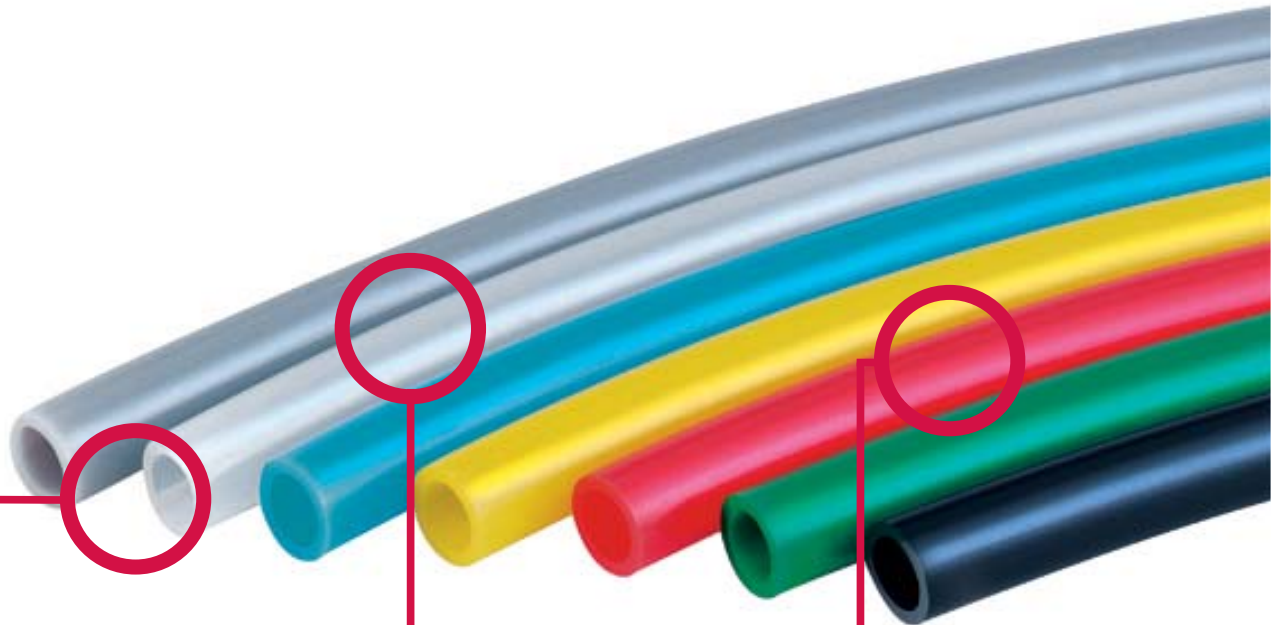
manifold suit to the clients requirements

We master your individual specifications

- combination of the different connection and screw joint series
- individual types, e.g. extensions, arches
- special threaded connections, e.g. female thread, fine thread, NPT
- adaption other systems, e.g. pipe screw joints, copper profiles, fabric lining hoses
- other sealing materials available, e.g. NBR, EPDM, FFKM
- integrated valve technology, e.g. flow control, barriers, pressure reading
- colour coding
- pre-assembled structural components
- multiple couplings

CLIENT

Plastic hoses



Versatile range of hoses

- Standard compressed-air hoses as well as hoses for special applications and appropriate accessories
- Different hose materials for different application areas

Color and code versions possible

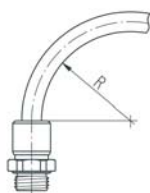
- Hoses can be delivered in many common colors, e.g. to indicate different fluids
- Labeling of hoses for coding possible too

Package solutions of connectors and hoses

- Secure combinations of EISELE connectors and their matching hoses
- Through limited tolerances also very suitable for applications with a high demand on freedom of leakage

On request we also offer hose solutions in other colors, sizes and materials.

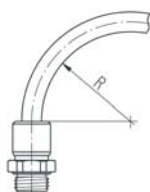
Compressed-air hose PTFE



- Made of polytetrafluoroethylene (PTFE, Teflon)
- Color natural
- External calibration; for use with Eisele plug connectors
- Temperature range -190 to +260 °C
- Operating pressure = burst pressure: safety (common factor 2 to 3)
- Free of plasticizers, PWIS, copper and PTFE
- Resistant to UV and solvents
- FDA compliant according to 21 CFR 177.2600
- Flame-retardant according to UL94 V0 to V2

Part no.	Outside Ø / Inside Ø	Minimum burst pressure at 20°C	Minimum burst pressure at 50°C	min. allowable bend radius	g/m
99001-0402	4 / 2	80 bar	52 bar	16	20,3
99001-4303	4,3 / 3	36 bar	21 bar	35	16,1
99001-0503	5 / 3	60 bar	41,5 bar	25	27,1
99001-0604	6 / 4	48 bar	31 bar	35	33,8
99001-0806	8 / 6	36 bar	23,5 bar	65	47,3
99001-0906	9 / 6	48 bar	31 bar	55	76,0
99001-1008	10 / 8	28 bar	18 bar	100	60,8
99001-1209	12 / 9	40 bar	18 bar	100	106,4
99001-1411	14 / 11	28 bar	18 bar	140	126,7

Compressed-air hose FEP

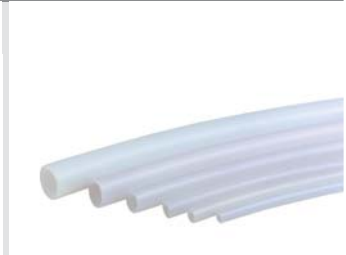
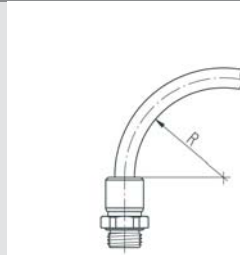


- Made of fluorinated ethylene-propylene copolymer (FEP)
- Color crystal clear
- External calibration; for use with Eisele plug connectors
- Temperature range -35 to +120 °C
- Operating pressure = burst pressure: Safety (common factor 2 to 3)
- Very flexible
- Free of plasticizer, copper and PTFE
- Flame-retardant according to UL94 V0 to V2
- Resistant to UV, hydrolysis and microbes
- Stabilized against thermal degradation and light
- FDA compliant according to 21 CFR 177.2600

Part no.	Outside Ø / Inside Ø	Minimum burst pressure at 20°C	Minimum burst pressure at 60°C	min. allowable bend radius	g/m
99501-0402	4 / 2	84 bar	70 bar	25	21,0
99501-0503	5 / 3	60 bar	52 bar	35	28,0
99501-0604	6 / 4	50 bar	40 bar	40	35,0
99501-0806	8 / 6	36 bar	29 bar	65	49,0
99501-1008	10 / 8	28 bar	22 bar	100	63,0

Plastic hose PFA

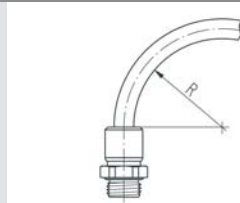
- Made of Perfluoro Alkoxyalkane (PFA)
- Color natural
- External calibration; for use with Eisele plug connectors
- Temperature range -20 to +150 °C (at zero pressure -70 to +260°C)
- Operating pressure = burst pressure: Safety (common factor 2 to 3)
- Free of plasticizer and PWIS
- Resistant to UV, hydrolysis, microbes and solvents
- Stable against thermal degradation
- Resistant to weld spatter
- FDA compliant according to 21 CFR 177.2600



Part no.	Outside Ø / Inside Ø	Minimum burst pressure at 20°C	Minimum burst pressure at 60°C	min. allowable bend radius	g/m
99221-0403	4 / 3	-	-	-	-
99221-0425	4 / 2,5	44 bar	33 bar	11	12,0
99221-0604	6 / 4	60 bar	39 bar	12	34,0
99221-0806	8 / 6	44 bar	33 bar	25	49,0
99221-1007	10 / 7	53 bar	37 bar	22	87,0
99221-1209	12 / 9	50 bar	37 bar	29	125,0
99221-1210	12 / 10	-	-	-	-

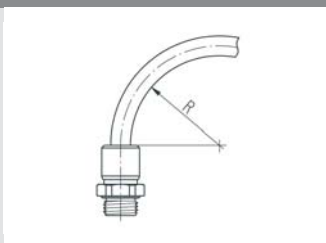
Compressed-air hose PE

- Made of polyethylene (PE)
- Color black (red, blue, green, yellow, natural, brown, orange and grey: specify when placing order; subject to extra charge)
- External calibration; for use with Eisele plug connectors
- Temperature range -10 to +40 °C
- Free of plasticizer and halogen



Part no.	Outside Ø / Inside Ø	Maximum allowable working pressure at 23 °C (reference value)	min. allowable bend radius	g/m
99004-0402	4 / 2	20 bar	20	8,7
99004-4303	4,3 / 3	13 bar	20	6,9
99004-0503	5 / 3	15 bar	25	11,6
99004-0604	6 / 4	13 bar	30	14,5
99004-0806	8 / 6	8 bar	40	20,3
99004-1008	10 / 8	6 bar	60	26,0
99004-1209	12 / 9	9 bar	60	45,6
99004-1210	12 / 10	5 bar	85	31,9
99004-1411	14 / 11	8 bar	90	54,3
99004-1512	15 / 12	7 bar	90	58,7
99004-1613	16 / 13	6 bar	90	63,0

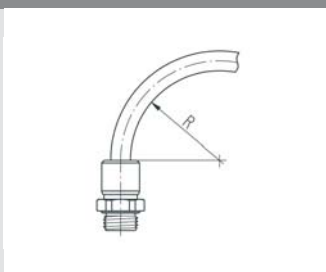
Compressed-air hose PA



- Made of polyamide (PA)
- Color black (red, blue, green, yellow, natural, brown, orange and grey: specify when placing order; subject to extra charge)
- External calibration; for use with Eisele plug connectors
- Temperature range -60 to +100 °C
- Operating pressure = burst pressure: safety (common factor 2 to 3)
- Suitable for vacuum
- Free of PWIS and halogen

Part no.	Outside Ø / Inside Ø	Minimum burst pressure at 20°C	Minimum burst pressure at 60°C	min. allowable bend radius	g/m
99005-0402	4 / 2	145 bar	82 bar	20	9,7
99005-4303	4,3 / 3	76 bar	43 bar	20	7,7
99005-0503	5 / 3	112 bar	64 bar	25	12,9
99005-0504	5 / 4	-	-	-	-
99005-0604	6 / 4	89 bar	51 bar	30	16,2
99005-0806	8 / 6	63 bar	36 bar	40	22,7
99005-0906	9 / 6	89 bar	51 bar	45	36,1
99005-1008	10 / 8	49,5 bar	28 bar	60	29,1
99005-1209	12 / 9	63 bar	36 bar	60	51,0
99005-1210	12 / 10	39,5 bar	22,5 bar	85	35,6
99005-1411	14 / 11	53 bar	30 bar	80	60,7
99005-1512	15 / 12	49,5 bar	28 bar	90	65,5
99005-1613	16 / 13	46 bar	26 bar	90	70,4

Compressed-air hose PU

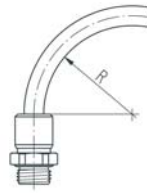


- Made of polyester-polyurethane (PU)
- Color black (red, blue, green, yellow, natural, brown, orange and grey: specify when placing order; subject to extra charge)
- External calibration; for use with Eisele plug connectors
- Temperature range -35 to +70 °C
- Operating pressure = burst pressure: safety (common factor 2 to 3)
- Free of plasticizers, PWIS, copper and PTFE
- Impervious to buckling and drag chain compliant
- Suitable for vacuum

Part no.	Outside Ø / Inside Ø	Minimum burst pressure at 20°C	Minimum burst pressure at 60°C	min. allowable bend radius	g/m
99003-0302	3 / 2,1	42 bar	22 bar	9	4,0
99003-0402	4 / 2,3	45 bar	24 bar	8	10
99003-0425	4 / 2,6	39 bar	23 bar	8	9,0
99003-4303	4,3 / 2,9	36 bar	22 bar	10	11
99003-0503	5 / 3,1	45 bar	24 bar	11	15,0
99003-0604	6 / 3,9	36 bar	23 bar	14	20,0
99003-0806	8 / 5,7	32 bar	20 bar	20	30,0
99003-1008	10 / 7,5	28 bar	16 bar	37,5	44,0
99003-1208	12 / 8	42 bar	26 bar	23	79,0
99003-1209	12 / 9	29 bar	17 bar	48	63
99003-1410	14 / 10	33 bar	20 bar	46	95,0
99003-1411	14 / 11	23 bar	15 bar	60	90,0
99003-1611	16 / 11	32 bar	21 bar	43	132,0

Eisele ProWeld hose

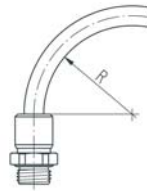
- Made of polyether-polyurethane
- Color black (red, blue, green, yellow, white)
- External calibration; for use with Eisele plug connectors
- Operating temperature -35 to +75 °C
- Operating pressure = burst pressure: safety (common factor 2 to 3)
- Suitable for compressed air, water
- Free of plasticizers, PWIS, halogen, copper and PTFE
- Impervious to buckling and drag chain compliant
- Resistant to UV, hydrolysis and microbes
- Flame-retardant according to UL94 V0 to V2
- Suitable for employment in welding
- Suitable for vacuum



Part no.	Outside Ø / Inside Ø	Minimum burst pressure at 20°C	Minimum burst pressure at 60°C	min. allowable bend radius	g/m
99118-0302	3 / 2	-	-	-	-
99118-0402	4 / 2	57 bar	40 bar	6,5	12,2
99118-0603	6 / 3	57 bar	40 bar	8,5	27,5
99118-0604	6 / 4	40 bar	22 bar	12	22
99118-0804	8 / 4	63 bar	37 bar	8	48,3
99118-0855	8 / 5,5	34 bar	18 bar	18	32,5
99118-1006	10 / 6	49 bar	28 bar	15	64,5
99118-1208	12 / 8	34 bar	21 bar	24	80,8
99118-1410	14 / 10	33 bar	18 bar	38	97,8
99118-1611	16 / 11	37 bar	19 bar	44	136,9
99118-2014	20 / 14	ca. 35 bar	ca. 16 bar	-	-

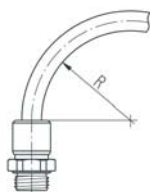
Plastic hose PU-H

- Made of polyether-polyurethane (PU-H)
- Color imbued: black, blue
- External calibration; for use with Eisele plug connectors
- Temperature range -35 to +70 °C
- Operating pressure = burst pressure: Safety (common factor 2 to 3)
- Free of halogen, plasticizers, PWIS, copper and PTFE
- Impervious to buckling and drag chain compliant
- Resistant to UV, hydrolysis and microbes
- FDA compliant according to 21 CFR 177.2600
- Suitable for vacuum



Part no.	Outside Ø / Inside Ø	Minimum burst pressure at 20°C	Minimum burst pressure at 60°C	min. allowable bend radius	g/m
99150-0425	4 / 2,5	34 bar	18 bar	6	8,5
99150-0604	6 / 4	33 bar	18 bar	10	18,3
99150-0806	8 / 6	30 bar	18 bar	20	28,7
99150-1007	10 / 7	30 bar	18 bar	25	46,5
99150-1208	12 / 8	33 bar	18 bar	23	72,9
99150-1611	16 / 11	31 bar	18 bar	38	123,0
99150-2014	20 / 14	ca. 30 bar	ca. 15 bar	-	ca. 187

Plastic hose PU-H translucent



- Made of polyether-polyurethane (PU-H)
- Color translucent: natural, red, blue
- External calibration; for use with Eisele plug connectors
- Temperature range -35 to +70 °C
- Operating pressure = burst pressure: Safety (common factor 2 to 3)
- Free of halogen, plasticizers, PWIS, copper and PTFE
- Impervious to buckling and drag chain compliant
- Resistant to hydrolysis and microbes
- FDA compliant according to 21 CFR 177.2600
- Suitable for vacuum

Part no.	Outside Ø / Inside Ø	Minimum burst pressure at 20°C	Minimum burst pressure at 60°C	min. allowable bend radius	g/m
99151-0425	4 / 2,5	34 bar	18 bar	6	8,5
99151-0604	6 / 4	33 bar	18 bar	10	18,3
99151-0806	8 / 6	30 bar	18 bar	20	28,7
99151-1007	10 / 7	30 bar	18 bar	25	46,5
99151-1208	12 / 8	33 bar	18 bar	23	72,9
99151-1611	16 / 11	31 bar	18 bar	38	123,0
99151-2014	20 / 14	ca. 30 bar	ca. 15 bar	-	ca. 187



- For compressed-air hoses with outer-Ø 14
- Material plastic black / steel
- Packaging unit 1 piece

Part no.		g/piece
99605-0014	Hose cutter for outer diameter up to 14	30
99605-00149	Spare blade for outer diameter up to 14	1



- For compressed-air hoses with outer-Ø 22
- Material zinc die-casting / steel
- Packaging unit 1 piece

Part no.		g/piece
99606-0022	Hose cutter for outer diameter up to 22 (with bag)	240
99606-00229	Spare blade for outer diameter up to 22	2

Article No.	Page	Article No.	Page	Article No.	Page	Article No.	Page
SA1394-1102	44	VT1762-0606	24	921-0906	16	962-0408	10
SA1394-1104	44	VT1762-0608	24	921-0908	16	962-0606	10
SA1394-1106	44	VT1763-5004	24	921-0806	16	962-0608	10
SA1394-1108	44	VT1780-0404	27	921-0804	16	962-0609	10
SA1394-1109	44	VT1787-5004	25	921-0602	16	963-5002	10
SA1394-1202	44	VT1704-0404	26	922-0202	16	963-5004	10
SA1394-1204	44	VT1704-0604	26	922-0404	16	977-0200	14
SA1394-1206	44	VT1729-5002	23	922-0606	16	977-0400	14
SA1394-1208	44	VT1729-4802	23	922-0808	16	977-0600	14
SA1394-1209	44	VT1729-4804	23	922-0909	16	977-0800	14
SA1394-1302	44	VT1729-5202	23	922-1111	16	977-0900	14
SA1394-1304	44	VT1729-5204	23	923-0200	16	978-0200	14
SA1394-1306	44	VT1733-0202	26	923-0400	16	978-0400	14
SA1394-1308	44	VT1733-0606	26	923-0600	16	978-0600	14
SA1394-1309	44	VT1733-0808	26	923-0800	16	978-0800	14
SA1394-1111	44	VT1733-0909	26	923-0900	16	978-0900	14
SA1394-1112	44	VT1762-0202	24	923-1100	16	979-0400	14
SA1394-1211	44	VT1762-0204	24	928-0202	9	980-0202	15
SA1394-1212	44	VT1762-0206	24	928-0204	9	980-0404	15
SA1394-1311	44	VT1762-0404	24	928-0206	9	980-0606	15
SA1394-1312	44	VT1762-0408	24	928-0402	9	980-0808	15
VT234-0202K934	15	VT1762-0409	24	928-0404	9	980-0909	15
VT234-0204K934	15	VT1762-0609	24	928-0406	9	980-1111	15
VT234-0206K934	15	VT1763-5002	24	928-0408	9	981-0204	15
VT234-0208K934	15	VT1763-4602	24	928-0606	9	981-0406	15
VT234-0402K934	15	VT1763-4802	24	928-0608	9	981-0608	15
VT234-0404K934	15	VT1763-4804	24	928-0609	9	981-0809	15
VT234-0406K934	15	VT1763-5202	24	928-0806	9	986-0202	11
VT234-0408K934	15	VT1763-5204	24	928-0808	9	986-0204	11
VT1728-0202	23	VT1763-5402	24	928-0809	9	986-0206	11
VT1728-0204	23	VT1763-5404	24	928-0604	9	986-0402	11
VT1728-0206	23	VT1763-5406	24	928-0611	9	986-0404	11
VT1728-0402	23	VT1778-0200	26	928-0804	9	986-0406	11
VT1728-0404	23	VT1778-0400	26	928-0811	9	986-0408	11
VT1728-0406	23	VT1778-0600	26	928-0409	9	986-0409	11
VT1728-0408	23	VT1778-0800	26	928-0815	9	986-0606	11
VT1728-0409	23	VT1778-0900	26	928-1015	9	986-0608	11
VT1728-0604	23	VT1780-0202	27	929-4202	9	986-0609	11
VT1728-0606	23	VT1780-0606	27	929-5002	9	986-0806	11
VT1728-0608	23	VT1780-0808	27	929-5004	9	986-0808	11
VT1728-0609	23	VT1780-0909	27	932-0204	13	986-0809	11
VT1728-0804	23	VT1787-5002	25	932-0406	13	987-4202	12
VT1728-0806	23	VT1787-4602	25	932-0408	13	987-5002	12
VT1728-0808	23	VT1787-4802	25	932-0608	13	987-5004	12
VT1728-0809	23	VT1787-4804	25	932-0609	13	988-0202	12
VT1786-0202	25	VT1787-5202	25	932-0809	13	988-0204	12
VT1786-0204	25	VT1787-5204	25	933-0202	13	988-0206	12
VT1786-0206	25	VT1787-5402	25	933-0404	13	988-0402	12
VT1786-0208	25	VT1787-5404	25	933-0606	13	988-0404	12
VT1786-0209	25	VT1787-5406	25	933-0808	13	988-0406	12
VT1786-0402	25	WZ660-09	34,45	933-0909	13	988-0408	12
VT1786-0404	25	WZ688-12	34,45	934-0202K	13	988-0606	12
VT1786-0406	25	917-0102	11	934-0204K	13	988-0608	12
VT1786-0408	25	917-0104	11	934-0206K	13	988-0609	12
VT1786-0409	25	917-0106	11	934-0402K	13	988-0806	12
VT1786-0604	25	917-0304	11	934-0404K	13	988-0808	12
VT1786-0606	25	917-0306	11	934-0406K	13	988-0809	12
VT1786-0608	25	917-0308	11	934-0408K	13	988-0409	12
VT1786-0609	25	917-0504	11	935-5002K	13	989-5002	12
VT1786-0804	25	917-0506	11	935-5004K	13	989-5004	12
VT1786-0806	25	917-0508	11	941-0202	17	990-0204	15
VT1786-0808	25	917-0704	11	962-0206	10	1123-0200	43
VT1786-0809	25	917-0706	11	962-0202	10	1123-0400	43
VT1729-5004	23	917-0708	11	962-0204	10	1123-0600	43
VT1733-0404	26	921-0204	16	962-0402	10	1123-0800	43
VT1762-0402	24	921-0402	16	962-0404	10	1123-1000	43
VT1762-0406	24	921-0604	16	962-0406	10	1124-5000	43

Article No.	Page	Article No.	Page
1141-5050	42	99004-0604	51
1142-0202	42	99004-0806	51
1142-0404	42	99004-1008	51
1142-0606	42	99004-1210	51
1142-0808	42	99004-1209	51
1143-0250	42	99004-1411	51
1143-0402	42	99004-1512	51
1143-0604	42	99004-1613	51
1143-0806	42	99005-0402	52
1159-0100	42	99005-4303	52
1159-0300	42	99005-0503	52
1159-0500	42	99005-0604	52
1159-0700	42	99005-0806	52
1160-4900	42	99005-1008	52
1170-0249	42	99005-0906	52
1170-0401	42	99005-1209	52
1170-0449	42	99005-1210	52
1170-0601	42	99005-1411	52
1170-0603	42	99005-1512	52
1170-0803	42	99005-1613	52
1170-0805	42	99005-0504	52
1176-0202	43	99118-0402	53
1176-0404	43	99118-0603	53
1176-0606	43	99118-0804	53
1176-0808	43	99118-0855	53
1176-1010	43	99118-1006	53
1176-1212	43	99118-1208	53
1702-0102	27	99118-1410	53
3615-04	34,39,44	99118-1611	53
3615-06	34,39,44	99118-0604	53
3628-040900	33	99118-2014	53
3628-060900	33	99118-0302	53
3661-040900	33	99150-0425	53
3661-060900	33	99150-0604	53
3677-090900	34	99150-0806	53
3680-000909	33	99150-1007	53
3694-000909	33	99150-1208	53
3828-040900	39	99150-1611	53
3828-060900	39	99150-2014	53
3861-040900	39	99151-0425	54
3861-060900	39	99151-0604	54
3880-000909	39	99151-0806	54
99001-0402	50	99151-1007	54
99001-0503	50	99151-1208	54
99001-0604	50	99151-1611	54
99001-0806	50	99151-2014	54
99001-4303	50	99221-0425	51
99001-0906	50	99221-0604	51
99001-1008	50	99221-0806	51
99001-1209	50	99221-1007	51
99001-1411	50	99221-1209	51
99003-0402	52	99221-0403	51
99003-4303	52	99221-1210	51
99003-0503	52	99501-0402	50
99003-0604	52	99501-0503	50
99003-0806	52	99501-0604	50
99003-1008	52	99501-0806	50
99003-1209	52	99501-1008	50
99003-1411	52	99605-0014	54
99003-1611	52	99605-00149	54
99003-0302	52	99606-0022	54
99003-0425	52	99606-00229	54
99003-1208	52		
99003-1410	52		
99004-0402	51		
99004-4303	51		
99004-0503	51		

§ 1 General

(1) These conditions of sale shall apply to agreements that are concluded between Eisele Pneumatics GmbH & Co. KG, Waiblingen (hereinafter “Eisele”) and its business customers (hereinafter “Customer”), insofar as these conditions of sale are validly incorporated. General terms and conditions of the Customer that contradict or deviate from these conditions of sale shall not form part of the agreement unless Eisele expressly consents in writing to the application of such general terms and conditions. These conditions of sale shall also apply if we unconditionally perform deliveries to the Customer while being aware of general terms and conditions of the Customer that contradict or deviate from these conditions of sale.

(2) Any arrangements reached between Eisele and the Customer with respect to an agreement shall be in writing. If the Customer does not agree with the application of these conditions of sale, it shall notify Eisele hereof without undue delay.

(3) These conditions of sale shall only apply vis-à-vis entrepreneurs within the meaning of sec.310(1) German Civil Code. Within the scope of ongoing business relations our conditions of sale shall also apply to future deliveries and services unless they are expressly agreed on anew.

§ 2 Offers; order acceptance

(1) Unless the offer expressly provides otherwise, the offers from Eisele shall be without obligation and exclusively understood as an invitation to submit an offer. Any agreements between Eisele and the Customer shall require written order confirmation by Eisele vis-à-vis the Customer.

(2) Descriptions and price information in catalogs, price lists, circulars, brochures or the like shall not be binding and shall merely serve to provide general information to prospective customers about the services offered by Eisele, unless we expressly confirmed this information when concluding an agreement. This also applies, in particular, to illustrations as well as to details regarding the size and weight of our products and services.

§ 3 Delivery periods, partial deliveries

(1) Any agreed delivery period shall begin, unless otherwise specified, on the day on which the order confirmation is received by the Customer.

(2) Eisele’s compliance with the delivery obligation requires the timely and proper fulfillment of the Customer’s cooperation obligations. Eisele reserves the right to plead non-performance.

(3) Eisele shall have the right to withhold delivery from the Customer if Eisele has a payable claim against the Customer.

(4) Eisele shall have the right to make partial deliveries to an extent that is reasonable for the Customer.

(5) Unforeseeable events of force majeure such as, in particular, war, riot, strike, lockout, measures by public authorities and resulting limitations of the capacity of pre-suppliers shall release Eisele from its delivery obligation for the duration of such events and for an additional two weeks. Should any of the aforementioned events last more than 6 weeks, both parties shall have the right to rescind the agreement if it becomes unreasonable for Eisele to render services.

§ 4 Transport, shipping, insurance

Shipments shall be made ex works from the Waiblingen site (Incoterms 2010). Should this be deviated from, the customer shall nevertheless bear the risk associated with the delivery unless expressly otherwise specified.

§ 5 Price

Prices shall be set in euros.

§ 6 Payments

(1) Invoices shall become payable immediately following receipt of the goods without a cash discount deduction, unless otherwise explicitly agreed.

(2) If Eisele accepts payment by bill of exchange, this shall be done on account of performance only. All bill of exchange expenses shall be borne by the Customer; it shall not be entitled to a cash discount deduction.

(3) As long as the Customer is not merely in arrears by an insignificant amount, Eisele can make the performance of services to be rendered contingent on prepayment by the Customer. Should the prepayment not be made within a reasonable time limit, Eisele shall have the right to cancel all orders not yet filled if the consideration has not been paid by the customer by the time at which the time limit expires.

§ 7 Reservation of title

(1) Eisele reserves title to the goods until all of Eisele’s claims against the Customer that have already arisen have been paid in full. In this connection the legal grounds on which Eisele’s claims against the Customer are based are irrelevant. This also includes, in particular, balance claims from current account. Claims for which a bill of exchange is negotiated or a check is issued to Eisele shall not be deemed satisfied until the bill of exchange or check is paid or cashed.

(2) The Customer shall, without undue delay, inform Eisele in writing of intervention by third parties such as, for example, attachment or execution by means of which rights of Eisele (in particular, Eisele’s reservation of title) are impaired.

(3) If the third party is not able to reimburse Eisele for the in-court and out-of-court costs of an action pursuant to sec. 771 German Code of Civil Procedure, the Customer shall be liable for the resulting shortfall.

(4) The processing or alteration of goods by the Customer shall always be carried out on behalf of Eisele. If the product is processed with other objects not belonging to Eisele, Eisele shall acquire joint ownership of the new thing based on the ratio of the value of the goods to the other processed items at the time of the processing. Otherwise, the thing arising from the processing shall be subject to the same provisions as the goods for which title is reserved.

(5) The Customer may resell the reserved goods only within the scope of its regular business operations. It shall be entitled and authorized to resell the reserved goods provided that the claims it accrues against its purchasers or third parties due to the resale, transfer to Eisele. The claims of the Customer arising from the resale of the reserved goods are now assigned to Eisele. Eisele accepts such assignment. The Customer shall not be entitled to otherwise dispose of the reserved goods; in particular, it may not pledge or assign the reserved goods by way of security. The Customer’s right to sell the reserved goods shall expire in the event of a considerable worsening of the Customer’s financial situation (insolvency, threatening insolvency, opening of insolvency proceedings) if the Customer ceases making payments from the proceeds collected and/or gets into arrears.

(6) The Customer shall be authorized to collect the assigned claims until revocation by Eisele. Eisele shall have the right to revoke the collection authorization at any time. The Customer shall not have the right to assign the claim to third parties. Eisele shall not make any use of the right of revocation as long as the Customer duly complies with its payment obligations. At Eisele’s request, the Customer shall inform its purchasers of the assignment to Eisele and provide Eisele with the necessary information and documents for collecting the claim. With respect to the expiry of the Customer’s collection authorization, para. 5 shall apply mutatis mutandis.

(7) Eisele undertakes, upon the Customer’s request, to release the security to which it is entitled in accordance with the above

provisions insofar as its realizable value exceeds the claims to be secured by more than 10%. Eisele shall have the right to decide which security is released.

§ 8 Rights

Eisele shall reserve its copyrights in illustrations, drawings, calculations, drafts and other documents that were prepared by Eisele. This shall apply, in particular, to written documents that are designated as "confidential". The Customer must receive Eisele's express written consent before passing on such documents to third parties.

§ 9 Guarantee, inspection

(1) Insignificant discrepancies, in particular technical improvements or product enhancements, shall not constitute defects within the meaning of sec. 434 German Civil Code.

(2) Furthermore, it shall not constitute a defect where the products are not free from anti-wetting substances, in particular silicone or light lubrication. Although the products are silicone-free when they leave production, it cannot be guaranteed that the products will be absolutely free from silicone or entirely free from other anti-wetting substances, since Eisele's suppliers (packaging suppliers) cannot issue any corresponding guarantees.

(3) The goods delivered within the scope of commercial transactions shall be inspected by the Customer without undue delay and, if a defect is detected, this shall be notified in writing, without undue delay, no later than within two weeks after receiving the goods (patent defect) or after discovery of the defect (latent defect).

(4) If it can be demonstrated that the goods have a defect at the time of the transfer of risk, the Customer can demand subsequent performance. Eisele can decide whether to repair or replace the defective goods. The Customer shall have the right to a reduction or to rescind the agreement if subsequent performance fails. This is the case if two replacement deliveries were also defective or two repair attempts were unsuccessful. Should goods that are allegedly defective, but actually fault-free, be returned, Eisele shall be at liberty to charge the Customer a reasonable amount to cover expenses incurred by Eisele in this connection, in particular for the repeated inspection of the goods.

(5) Warranty claims of the Customer based on defects shall become statute-barred 12 months after delivery of the goods. This shall not apply with respect to items that, due to their customary manner of use, were used for a building and caused the defectiveness of that building; in this case the claim shall only become statute-barred after five years. There shall be no warranty claim for downgraded goods, special items, waste and goods that are not new. There shall be no claims to reduction or the exercise of a right of rescission if the claim to subsequent performance has become statute-barred.

§ 10 Liability

(1) Eisele shall not be liable for direct or indirect damage (for example, due to an operational interruption or lost profits of the Customer), irrespective of the legal grounds therefor.

(2) The above exclusion of liability shall not apply:

(i) in the event of willful or grossly negligent breaches of duty by the governing bodies, employees or vicarious agents of Eisele;
(ii) in the event of an injury to life, limb or health;
(iii) in the event of a breach of material contractual duties. In the latter case, liability of Eisele shall, however, be limited to damage typically foreseeable upon conclusion of the agreement. For damage that could not be foreseen by Eisele, liability shall be limited to the value of the order.

(3) The above restrictions and limitations shall not be applied to liability provisions that are required by law, such as, for example, those of the Product Liability Act.

§ 11 Final provisions, applicable law, jurisdiction

(1) Agreements between Eisele and the Customer shall be exclusively governed by German law to the exclusion of the United Nations Convention on Contracts for the International Sale of Goods (CISG) and private international law.

(2) Waiblingen shall be the sole place of jurisdiction for all disputes arising from or in connection with the business relations between Eisele and the Customer, provided that the Customer is a dealer. The place of jurisdiction shall also apply to actions pertaining to checks or bills of exchange.

(3) Should a provision of these conditions of sale be or become invalid or impracticable, this shall not affect the validity of the remaining conditions of sale. Eisele and the Customer undertake, in such a case, to replace the invalid or impractical provision with a valid or practicable provision that comes as close as possible to the spirit and purpose of the provision to be replaced.

(4) Should these conditions of sale contain an unintended omission, this shall be filled with a provision that Eisele and the Customer would have agreed on had they considered the need for a provision governing the respective issue.

Waiblingen, August 2011

* * *

MANY SOLUTIONS FROM ONE MODULAR SYSTEM,

EISELE BASICLINE

Standard components for pneumatics

EISELE **BASICLINE** gives our customers a wide choice of our stock of approx. 3,500 standardized connection components. We can therefore deliver at very short notice a complete range of screw joints, plug connectors, matching hoses and a wide spectrum of accessories.

Many of these EISELE products are authorized for use by the major automotive manufacturers like Audi, Daimler or Volkswagen.

EISELE INOXLINE

Stainless steel connection solutions

Stainless steel connections are frequently called for systems in the food and pharmaceutical sectors – and they are essential for many applications. Based on the design of our tried-and-tested standard components, we supply a broad range of media-resistant connections made of corrosion-proof and acid-resistant stainless steel. The connections are equally tough enough for aggressive production environments and cleaning products.



BASIC

FROM STANDARDIZED TO HIGHLY INDIVIDUAL

EISELE LIQUIDLINE

Connections for cooling water

The through-flow-optimized connections in the EISELE **LIQUIDLINE** are perfectly suited for applications with closed cooling-water cycles.

All parts in contact with media are made of a brass alloy not susceptible to dezincification. When combined with the hoses, connections with FPM seals are resistant to many media as well as high temperatures.

EISELE MULTILINE

Multiple couplings for multiple media connections

From plant installations, to maintenance and repair, the couplings in the EISELE **MULTILINE** join separate components or complete modules in a safe, efficient and space-saving way with the simple, centralized, plug and screw joint connectors. In machines with combined air and liquid inlets, the connections discourage assembly mistakes. They can also be coupled and uncoupled under pressure thanks to the integrated shut-off valves.





Eisele Pneumatics GmbH & Co. KG
Qualitäts-Anschlusskomponenten
für Druckluft, Gase und Flüssigkeiten
Quality connection components for
compressed air, gases, and liquids

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QUALITY CONNECTION COMPONENTS FOR COMPRESSED AIR, GASES, AND LIQUIDS



EISELE **INOXLINE**
Stainless steel connection
solutions

EISELE **LIQUIDLINE**
Connections for cooling water

EISELE **MULTILINE**
Multiple couplings for multiple
media connections