

Eisele

EISELE **LIQUIDLINE PROGRAM**
CONNECTIONS FOR COOLING WATER

**QUALITY SOLUTIONS
MADE BY EISELE**



LIQUID

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



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EISELE **LIQUIDLINE** CONNECTIONS FOR COOLING WATER

1. FOR WATER WITH SPECIAL ADDITIVES

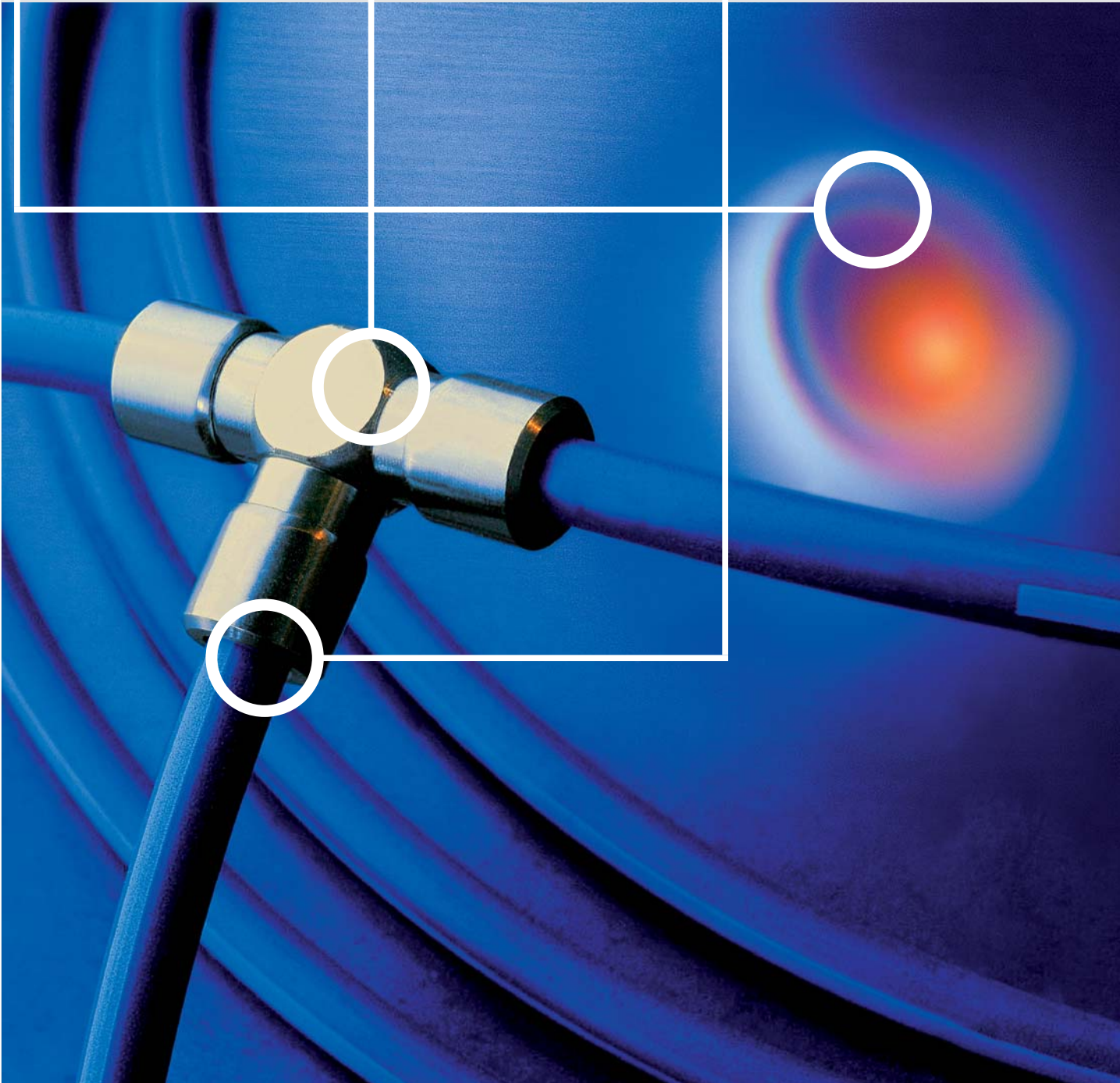
EISELE's **LIQUIDLINE** plug connectors are suitable for applications in liquid closed loops and together with hydrous, aggressive media. They can also be used with cooling water lines for welding applications.

2. EFFICIENT PROTECTION AGAINST CORROSION

The connectors are nickel-free and a cost-saving alternative to plug connectors made of stainless steel: All parts with contact to media are equipped with dezincification-resistant brass alloys; they are also more resistant against many different materials and higher temperatures.

3. PATENT-REGISTERED ASSEMBLY TECHNIQUE

Due to EISELE's patent-registered release sleeve, the assembly and disassembly of the hoses can be done easily, fast and without using any tools. This is a cost-saving method and ensures a flexible and reliable connection solution, even if the plug connectors are frequently used.



THE SERIES AT A GLANCE AND THEIR AREAS OF APPLICATION

SERIES 2600

Plug connectors with release sleeve and 1 seal
 Plug connectors for most applications up to 16 bar/ highly reliable
 Application examples:
 Areas with industrial cooling water connections, welding
 operations, robotics



SERIES 2400

Plug connectors with release sleeve and 2 seals
 Plug connectors for applications up to 24 / 100 bar concerning
 the highest sealing requirements
 Application examples:
 Working pressure > 16 bar, cooling systems for electronic
 devices, lubrication systems, measurement connectors, clean
 room applications



SERIES 2500

Screw joints with larger nominal width
 Screw joints for applications with special requirements on the
 hose
 Application examples:
 Moving systems, systems with additional tensile loading on the
 hose, high pressure fluctuations, secure connection even with
 strong hose movement



PROFIT FROM A VARIETY OF STANDARD-TYPES



Screw-in connector



Elbow screw-in connector



Elbow screw-in connector swiveling

Elbow screw-in connector 45°
swiveling

Elbow connector



T connector



Bulkhead connector

General information

- Working pressure range -0,95 to 16 bar (100 bar)
- Temperature range -20 to +120°C
- Dezincification-resistant brass alloy
- Three different series for different requirements
- compatible to the EISELE series 14, 15 and the EISELE MULTILINE
- extensive accessories and range of hoses
- innovative EISELE colour-coded solutions for plug connectors

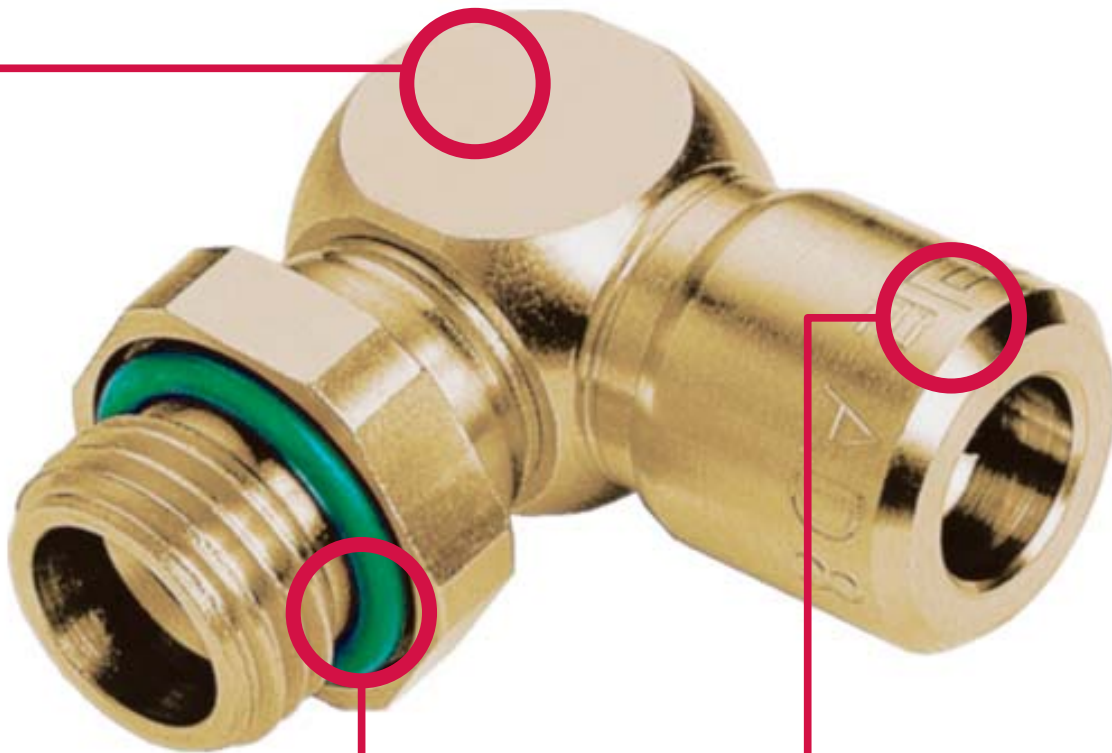


To complete our portfolio of the EISELE **LIQUIDLINE** we also offer suitable plastic hoses.



Series 2600 - Plug connectors with release sleeve and 1 seal

2600



Low total costs

- cost-effective alternative e.g. in comparison to stainless steel connectors
- easy and fast assembly and disassembly through release sleeves, even if used several times
- many types available as standard version

High reliability

- dezincification-resistant brass, suitable for almost all applications with water
- high-quality seals made out of FPM
- all sealing points on hose, thread and body are construed to life-long tightness

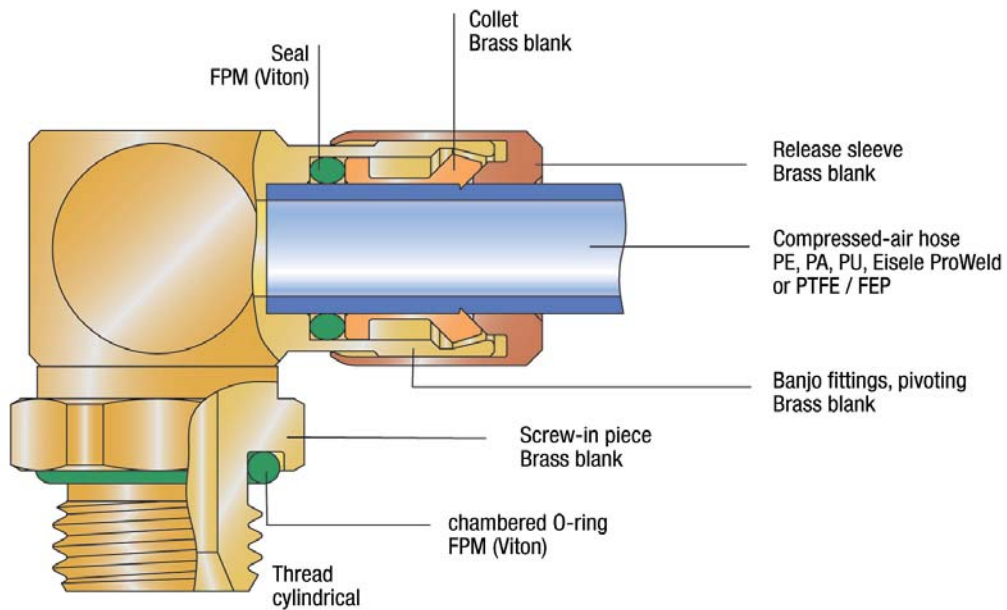
Sophisticated technology for all applications

- patented system with 1 seal
- dirt-repellent release sleeve
- resistant against weld spatters
- shut-off valve optionally available
- exclusive design

The dezincification-resistant all-round connector with outstanding system characteristics.

2600

Functional principle



The collet guarantees the secure clamp of the plugged in hose. The external release sleeve protects the connector of dirt and makes it possible to release the hose without any tools. Simple assembly and operation.

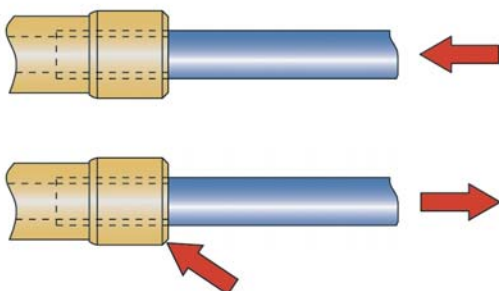
Range of application

- Cooling water systems with low pressure from -0.95 to 16 bar
- Robotics, welding technology
- Plant construction

Service conditions

- Temperature range -20 to +120°C
- Working pressure range -0.95 to 16 bar, depending on the used hose
- suitable for vacuum
- full hose passage
- flow-rate optimized
- dirt-repellent design
- fast assembly
- disassembly without tools possible
- Thread with chambered O-Ring

Handling

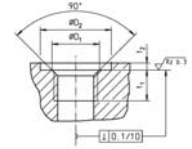


Assembly: Push hose into the connector up to the limit stop

Disassembly: Push release sleeve, pull out hose

Connection thread, cylindrical

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)	
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	

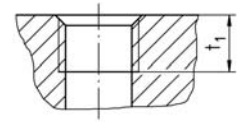


¹⁾ A counterbore is not necessary. However, the indicated values apply if a counterbore is applied.

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

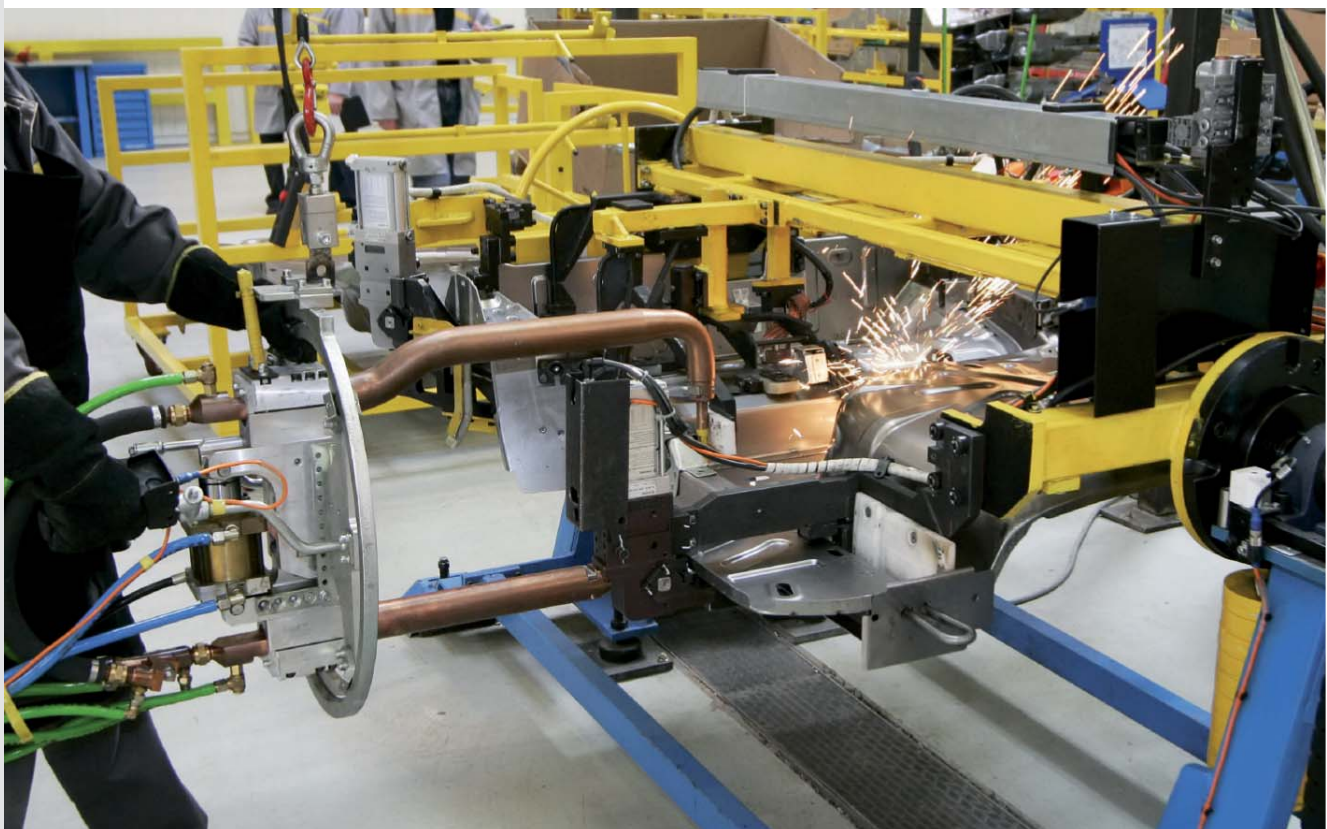
Connection thread, conical

Thread	Thread depth t1 min. (mm)	Recommended torque max. (Ncm)	Thread standards
R1/8	7,4	700	Pipe thread ISO 7-1 / EN 10226-1
R1/4	11	1500	
R3/8	11,4	2200	
R1/2	15	4000	
R3/4	16,3	6000	



Hoses

Hose outside diameter	Tolerance outside diameter	ProWeld 99118	PU-H 99150	PE 99004	PTFE 99001	FEP 99501
4 mm	± 0.1 mm	4/2	4/2.5	4/2	4/2	4/2
6 mm	± 0.1 mm	6/3	6/4	6/4	6/4	6/4
8 mm	± 0.15 mm	8/4, 8/5.5	8/6	8/6	8/6	8/6
10 mm	± 0.15 mm	10/6	10/7	10/8	-	-
12 mm	± 0.15 mm	12/8	12/8	-	-	-
14 mm	± 0.15 mm	14/10	-	-	-	-
16 mm	± 0.15 mm	16/11	16/11	-	-	-



Threaded connectors

starting on page 11



Straight threaded connectors

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Angled threaded connectors

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Plug connector

starting on page 15



Double connectors

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Elbow connectors

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T connectors

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Y connectors

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Bulkhead connectors

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Plug

starting on page 18



Double plug

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Sealing plug

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Pipe/ hose adapter

starting on page 19



Plug screw joints

page 19



Elbow screw joints

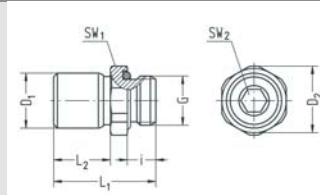
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Accessories

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Screw-in connector

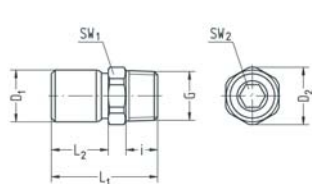
- Whitworth pipe thread DIN ISO 228
- Chambered O-ring
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range: -20 to +120 °C
- Working pressure range: -0.95 to 16 bar



2600

Part no.	G	for hose	SW1	SW2	i	L1	L2	D1	D2	NW	g/piece
VT2628-0202	G1/8	OD4 (4/2)	13	3	5.5	19.5	10	8.5	14.2	2	9
VT2628-0204	G1/8	OD6 (6/4)	13	5	5.5	22	12.5	11.5	14.2	4	10
VT2628-0206	G1/8	OD8 (8/6)	14	5	5.5	27	17.5	14.5	15.2	5.1	17
VT2628-0208	G1/8	OD10 (10/8)	15	5	5.5	30.5	19.5	16.5	16.5	5.1	21
VT2628-0209	G1/8	OD12 (12/09)	20	5	5.5	35.5	20	19.9	21.8	5.2	37
VT2628-0402	G1/4	OD4 (4/2)	17	3	7.5	22	10	8.5	18.5	2	17
VT2628-0404	G1/4	OD6 (6/4)	17	5	7.5	24.5	12.5	11.5	18.5	4	18
VT2628-0406	G1/4	OD8 (8/6)	17	6	7.5	27.5	15.5	14.5	18.5	6	21
VT2628-0408	G1/4	OD10 (10/8)	17	8	7.5	32.5	20.5	16.5	18.5	8	24
VT2628-0409	G1/4	OD12 (12/9)	20	8	7.5	36.5	23.5	20	21.8	8.3	38
VT2628-0411	G1/4	OD14 (14/11)	20	8	7.5	40	26	22	21.8	8.3	42
VT2628-0604	G3/8	OD6 (6/4)	20	5	7.5	25.5	12.5	11.5	21.8	4	29
VT2628-0606	G3/8	OD8 (8/6)	20	6	7.5	28.5	15.5	14.5	21.8	6	32
VT2628-0608	G3/8	OD10 (10/8)	20	8	7.5	30.5	17.5	16.5	21.8	8	32
VT2628-0609	G3/8	OD12 (12/9)	20	9	7.5	32.5	19.5	20	21.8	9	35
VT2628-0611	G3/8	OD14 (14/11)	22	10	7.5	40	24.5	22	23.8	10.3	51
VT2628-0612	G3/8	OD16 (16/12)	24	10	7.5	43	27.5	25	26.2	10.3	60
VT2628-0804	G1/2	OD6 (6/4)	24	5	9.5	28	12.5	11.5	26.2	4	49
VT2628-0806	G1/2	OD8 (8/6)	24	6	9.5	31	15.5	14.5	26.2	6	52
VT2628-0808	G1/2	OD10 (10/8)	24	8	9.5	33	17.5	16.5	26.2	8	52
VT2628-0809	G1/2	OD12 (12/9)	24	9	9.5	35	19.5	20	26.2	9	54
VT2628-0811	G1/2	OD14 (14/11)	24	10	9.5	36.5	21	22	26.2	10.3	55
VT2628-0812	G1/2	OD16 (16/12)	24	12	9.5	43.5	27.5	25	26.2	12	60
VT2628-0815	G1/2	OD20 (20/15)	30	12	9.5	59.6	39.1	30.5	33.5	12.5	130
VT2628-1015	G3/4	OD20 (20/15)	32	14	9.5	59.6	39.1	30.5	34.8	14.5	150

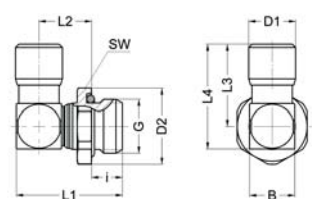
Screw-in connector



- Pipe thread conical ISO 7-1 / EN10226-1
- Seal FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range: -20 to +120 °C
- Working pressure range: -0.95 to 16 bar

Part no.	G	for hose	SW1	SW2	i	L1	L2	D1	D2	NW	g/piece
VT2631-0202	R1/8	OD4 (4/2)	11	3	9	23	10	8,6	12,3	3,2	10
VT2631-0204	R1/8	OD6 (6/4)	11	4	9	25,5	12,5	11,4	12,3	4,3	12
VT2631-0206	R1/8	OD8 (8/6)	13	5	9	28,5	15,5	14,6	14,6	5,4	16
VT2631-0404	R1/4	OD6 (6/4)	14	4	12,5	29,5	12,5	11,4	15,7	4,2	22
VT2631-0406	R1/4	OD8 (8/6)	14	6	12,5	32,5	15,5	14,6	15,7	6,5	24
VT2631-0408	R1/4	OD10 (10/8)	17	8	12,5	34,5	17,5	16,6	19	8,5	26
VT2631-0409	R1/4	OD12 (12/9)	19	8	12,5	40,5	22	19,9	21,3	8,5	39
VT2631-0608	R3/8	OD10 (10/8)	17	8	13	35	17,5	16,6	21,3	8,5	37
VT2631-0609	R3/8	OD12 (12/9)	19	10	13	41	22	19,9	21,3	8,5	45

Elbow screw-in connector swiveling

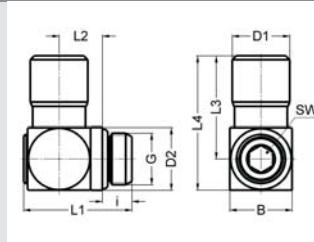


- Whitworth pipe thread DIN ISO 228
- Chambered O-ring
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range: -20 to +120 °C
- Working pressure range: -0.95 to 16 bar

Part no.	G	for hose	SW	i	L1	L2	L3	L4	B	D1	D2	NW	g/piece
VT2604-0202	G1/8	OD4 (4/2)	13	5,5	22,9	12,9	16,7	21,2	9	8,5	14,2	2,5	15
VT2604-0204	G1/8	OD6 (6/4)	13	5,5	25,9	14,9	20	25,5	11	11,5	14,2	4,2	19
VT2604-0206	G1/8	OD8 (8/6)	14	5,5	31,4	18,9	24,5	31,5	14	14,5	15,2	5,5	40
VT2604-0208	G1/8	OD10 (10/8)	14	5,5	31,5	19	27	34	14	16,5	15,2	5,5	73
VT2604-0402	G1/4	OD4 (4/2)	17	7,5	24,9	12,9	16,5	21	9	8,5	18,5	2,5	21
VT2604-0404	G1/4	OD6 (6/4)	17	7,5	25,9	12,9	20	25,5	11	11,5	18,5	4,2	23
VT2604-0406	G1/4	OD8 (8/6)	17	7,5	31,4	16,9	24,5	31,5	14	14,5	18,5	6,5	41
VT2604-0408	G1/4	OD10 (10/8)	17	7,5	36,3	20,8	28	36	16	16,5	18,5	8,5	54
VT2604-0409	G1/4	OD12 (12/9)	17	7,5	36,3	20,8	32,5	40,5	16	20	18,5	8,5	62
VT2604-0604	G3/8	OD6 (6/4)	20	7,5	26,9	13,9	20	25,5	11	8,5	21,8	4,2	31
VT2604-0606	G3/8	OD8 (8/6)	20	7,5	29,9	15,4	24,5	31,5	14	14,5	21,8	6,5	46
VT2604-0608	G3/8	OD10 (10/8)	20	7,5	33,3	17,8	28	36	16	16,5	21,8	8,5	56
VT2604-0609	G3/8	OD12 (12/9)	20	7,5	40,3	22,8	34,5	44,5	20	20	21,8	9	94
VT2604-0611	G3/8	OD14 (14/11)	22	7,5	43,5	25	38	49	22	22	23,8	11	112
VT2604-0612	G3/8	OD16 (16/12)	24	7,5	46	26,5	42,5	54,5	24	25	26,2	12,5	123
VT2604-0804	G1/2	OD6 (6/4)	24	9,5	30,4	15,4	20	25,5	11	8,5	26,2	4,2	50
VT2604-0806	G1/2	OD8 (8/6)	24	9,5	33,4	16,9	24,5	31,5	14	14,5	26,2	6,5	65
VT2604-0808	G1/2	OD10 (10/8)	24	9,5	35,8	18,3	28	36	16	16,5	26,2	8,5	74
VT2604-0809	G1/2	OD12 (12/9)	24	9,5	39,9	20,4	34,5	44,5	20	20	26,2	9	106
VT2604-0811	G1/2	OD14 (14/11)	24	9,5	42,5	22	38	49	22	22	26,2	11	122
VT2604-0812	G1/2	OD16 (16/12)	24	9,5	47,5	26	42,5	54,5	24	25	26,2	12,5	132
VT2604-0815	G1/2	OD20 (20/15)	24	9,5	60,8	36,3	56,5	70	30	30,5	26	13,5	256
VT2604-1015	G3/4	OD20 (20/15)	32	9,5	60,8	36,3	57,1	70,6	30	30,5	34,8	18	278

Elbow screw-in connector swiveling

- Whitworth pipe thread DIN ISO 228 with hexagon socket
- Chambered O-ring
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range: -20 to +120 °C
- Working pressure range: -0.95 to 16 bar

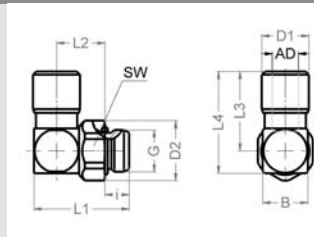


2600

Part no.	G	for hose	SW	i	L1	L2	L3	L4	B	D1	D2	NW	g/piece
VT2656-0202	G1/8	OD4 (4/2)	4	5,5	22	8,7	17,8	23,7	11,8	8,6	11,9	2	17
VT2656-0204	G1/8	OD6 (6/4)	4	5,5	22	8,7	21,3	27,2	11,8	11,4	11,9	4	20
VT2656-0206	G1/8	OD8 (8/6)	4	5,5	22	8,7	24,2	30,1	13,9	14,6	11,9	4,5	27
VT2656-0208	G1/8	OD10 (10/8)	4	5,5	22	8,7	26,4	32,5	13,9	16,6	11,9	4,4	31
VT2656-0402	G1/4	OD4 (4/2)	6	7,5	27,5	11	19,5	27,4	15,8	8,6	15,9	2	34
VT2656-0404	G1/4	OD6 (6/4)	6	7,5	27,5	11	23	30,9	15,8	11,4	15,9	4	37
VT2656-0406	G1/4	OD8 (8/6)	6	7,5	27,5	11	26	33,9	15,8	14,6	15,9	6	42
VT2656-0408	G1/4	OD10 (10/8)	6	7,5	27,5	11	28	35,9	15,9	16,6	15,9	6,5	46
VT2656-0609	G3/8	OD12 (12/9)	8	7,5	31,8	13,5	35,5	46	19,9	19,9	19,9	9	81

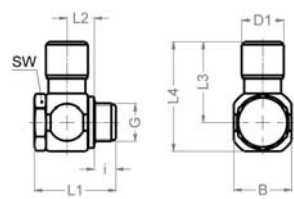
Elbow screw-in connector lockable

- Whitworth pipe thread DIN ISO 228
- Chambered O-ring
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range: -20 to +120 °C
- Working pressure range: -0.95 to 16 bar
- Stiff angular shape, can be locked with jam nut



Part no.	G	for hose	SW	i	L1	L2	L3	L4	B	D1	D2	NW	g/piece
VT2640-0202	G1/8	OD4 (4/2)	13	5,5 - 1	21,5	11	16,5	21,5	10	8,6	14,2	3	18
VT2640-0204	G1/8	OD6 (6/4)	13	5,5 - 1	22,5	11,5	20	25,5	11	11,4	14,2	5,3	21
VT2640-0206	G1/8	OD8 (8/6)	13	5,5 - 1	26,5	14	24,5	31,5	14	14,6	14,2	5,5	35
VT2640-0208	G1/8	OD10 (10/8)	13	5,5 - 1	29	15,5	28	36	16	16,6	14,2	5,5	46
VT2640-0404	G1/4	OD6 (6/4)	17	7,5 - 1,5	27,5	14,5	20	25,5	11	11,4	18,5	5,3	34
VT2640-0406	G1/4	OD8 (8/6)	17	7,5 - 1,5	29,5	15	24,5	31,5	14	14,6	18,5	6,3	45
VT2640-0408	G1/4	OD10 (10/8)	17	7,5 - 1,5	31,5	16	28	36	16	16,6	18,5	8	53
VT2640-0409	G1/4	OD12 (12/9)	17	7,5 - 1,5	33,5	17	33	42	18	19,9	18,5	8	71
VT2640-0606	G3/8	OD8 (8/6)	20	7,5 - 1,5	30,5	16	24,5	31,5	14	14,6	21,8	6,3	54
VT2640-0608	G3/8	OD10 (10/8)	20	7,5 - 1,5	32,5	17	28	36	16	16,6	21,8	8,4	63
VT2640-0609	G3/8	OD12 (12/9)	20	7,5 - 1,5	33,5	17	33	42	18	19,9	21,8	9	79
VT2640-0611	G3/8	OD14 (14/11)	20	7,5 - 1,5	35,5	18	36,5	46,5	20	21,9	21,8	11	90
VT2640-0612	G3/8	OD16 (16/12)	20	7,5 - 1,5	39,5	20	42,5	54,5	24	24,9	21,8	11,5	130
VT2640-0806	G1/2	OD8 (8/6)	24	9,5 - 1,5	31	14,5	24,5	31,5	14	14,6	26,2	6	55
VT2640-0808	G1/2	OD10 (10/8)	24	9,5 - 1,5	33	15,5	28	36	16	16,6	26,2	8	63
VT2640-0809	G1/2	OD12 (12/9)	24	9,5 - 1,5	35	16,5	33	42	18	19,9	26,2	9	95
VT2640-0811	G1/2	OD14 (14/11)	24	9,5 - 1,5	39	19,5	36,5	46,5	20	21,9	26,2	11,5	110
VT2640-0812	G1/2	OD16 (16/12)	24	9,5 - 1,5	43	21,5	42,4	54,4	24	24,9	26,2	12,5	120
VT2640-0815	G1/2	OD20 (20/15)	24	9,5 - 1,5	48	24,5	55	69	30	30,5	33,2	15,5	135
VT2640-1015	G3/4	OD20 (20/15)	32	12 - 1,5	50	26,5	58	72	30	30,5	33,2	15,5	145

Single swivel joint

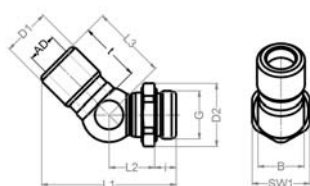


- Whitworth pipe thread DIN ISO 228
- VS seal rings
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

2600

Part no.	G	for hose	SW	i	L1	L2	L3	L4	B	D1	NW	g/piece
VT2634-0202K	G1/8	OD4 (4/2)	13	5,5	26,5	9,5	24,5	32,5	16	8,5	2,5	39
VT2634-0204K	G1/8	OD6 (6/4)	13	5,5	26,5	9,5	24,5	32,5	16	11,5	5	41
VT2634-0206K	G1/8	OD8 (8/6)	13	5,5	26,5	9,5	24,5	32,5	16	14,6	6	45
VT2634-0208K	G1/8	OD10 (10/8)	13	5,5	26,5	9,5	24,5	32,5	16	16,5	6	49
VT2634-0404K	G1/4	OD6 (6/4)	17	7,5	28,7	9,5	23	33	20	11,5	5	55
VT2634-0406K	G1/4	OD8 (8/6)	17	7,5	28,7	9,5	26	36	20	14,6	7	57
VT2634-0408K	G1/4	OD10 (10/8)	17	7,5	28,7	9,5	28,5	38,5	20	16,5	8	65
VT2634-0409K	G1/4	OD12 (12/9)	17	7,5	32,7	11,7	33,5	43,5	20	20	8	70
VT2634-0606K	G3/8	OD8 (8/6)	20	7,5	29,3	9,5	38	49	22	14,6	7	80
VT2634-0608K	G3/8	OD10 (10/8)	20	7,5	29,3	9,5	38	49	22	16,5	9	82
VT2634-0609K	G3/8	OD12 (12/9)	20	7,5	33,8	11,8	38	49	22	20	10	86
VT2634-0611K	G3/8	OD14 (14/11)	20	7,5	33,8	11,8	38	49	22	21,9	10	90
VT2634-0612K	G3/8	OD16 (16/12)	20	7,5	36,8	13,3	38	49	22	25	10	98
VT2634-0806K	G1/2	OD8 (8/6)	24	9	31,5	9,5	30	44,5	29	14,6	7	122
VT2634-0808K	G1/2	OD10 (10/8)	24	9	31,5	9,5	33,5	48	29	16,5	9	126
VT2634-0809K	G1/2	OD12 (12/9)	24	9	39	13,3	37,5	51,5	29	20	11	130
VT2634-0811K	G1/2	OD14 (14/11)	24	9	39	13,3	40	54	29	21,9	13	134
VT2634-0812K	G1/2	OD16 (16/12)	24	9	39	13,3	42,5	57,5	29	25	13	142

Elbow screw-in connector 45°, swiveling

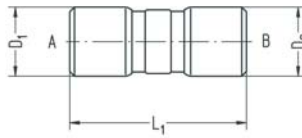


- Whitworth pipe thread DIN ISO 228
- Chambered O-ring
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range: -20 to +120 °C
- Working pressure range: -0.95 to 16 bar

Part no.	G	for hose	SW1	i	L1	L2	L3	B	D1	D2	t	NW	g/piece
VT2698-0202	G1/8	OD4 (4/2)	13	5,5	32	11,5	16,6	8,5	11,1	14,2	13	3	16
VT2698-0204	G1/8	OD6 (6/4)	13	5,5	35,3	13	18,3	11	13,1	14,2	15	4,5	21
VT2698-0206	G1/8	OD8 (8/6)	13	5,5	41	16,7	21	12	16,4	15,2	17	5,5	37
VT2698-0402	G1/4	OD4 (4/2)	17	7,5	34	11,5	16,7	8,5	11,1	18,5	13	3	23
VT2698-0404	G1/4	OD6 (6/4)	17	7,5	36,2	12	18,3	11	13,1	18,5	15	4,5	27
VT2698-0406	G1/4	OD8 (8/6)	17	7,5	41,8	14,7	21	14	16,4	18,5	17	6,5	38
VT2698-0408	G1/4	OD10 (10/8)	17	7,5	48	18,8	23,6	16	18,5	18,5	18	8,5	52
VT2698-0604	G3/8	OD6 (6/4)	20	7,5	36,3	12	18,3	11	13,1	21,8	15	4,5	35
VT2698-0606	G3/8	OD8 (8/6)	20	7,5	40,3	13,2	21	14	16,4	21,8	17	6,5	45
VT2698-0608	G3/8	OD10 (10/8)	20	7,5	45	15,8	23,6	16	18,5	21,8	18	8,5	54
VT2698-0804	G1/2	OD6 (6/4)	24	9,5	39,7	13,5	18,3	11	13,1	26,2	15	4,5	55
VT2698-0806	G1/2	OD 8 (8/6)	24	9,5	43,8	14,7	21	14	16,4	26,2	17	6,5	65
VT2698-0808	G1/2	OD10 (10/8)	24	9,5	48	16,3	23,6	16	18,5	26,2	18	8,5	75

Double connector

- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

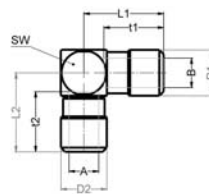


2600

Part no.	for hose A	for hose B	L1	D1	D2	NW	g/piece
VT2632-0206	OD4 (4/2)	OD8 (8/6)	33	8,6	14,6	4	18
VT2632-0406	OD6 (6/4)	OD8 (8/6)	35,5	11,5	14,5	4	20
VT2632-0408	OD6 (6/4)	OD10 (10/8)	38,5	11,5	16,5	4	26
VT2632-0608	OD8 (8/6)	OD10 (10/8)	41,5	14,5	16,5	6	30
VT2632-0811	OD10 (10/8)	OD14 (14/11)	51	16,5	22	8	49
VT2632-1112	OD14 (14/11)	OD16 (16/12)	62	22	25	11	87
VT2633-0202	OD4 (4/2)	OD4 (4/2)	26,5	8,5	8,5	2	6
VT2633-0404	OD6 (6/4)	OD6 (6/4)	32,5	11,5	11,5	4	13
VT2633-0606	OD8 (8/6)	OD8 (8/6)	38,5	14,5	14,5	6	25
VT2633-0808	OD10 (10/8)	OD10 (10/8)	44	16,5	16,5	8	33
VT2633-0909	OD12 (12/9)	OD12 (12/9)	54	20	20	9	58
VT2633-1111	OD14 (14/11)	OD14 (14/11)	59	22	22	11	71
VT2633-1212	OD16 (16/12)	OD16 (16/12)	65,5	25	25	12	92
VT2633-1515	OD20 (20/15)	OD20 (20/15)	92,2	30,5	30,5	16,5	188

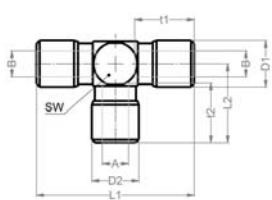
Elbow connector

- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar



Part no.	for hose A	for hose B	SW	L1	L2	D1	D2	t1	t2	NW	g/piece
VT2677-0200	OD4 (4/2)	OD4 (4/2)	9	16	16,7	8,6	8,6	12,7	12,7	2,5	10
VT2677-0400	OD6 (6/4)	OD6 (6/4)	11	20	20	11,4	11,4	15,5	15,5	4	18
VT2677-0600	OD8 (8/6)	OD8 (8/6)	14	24,5	24,5	14,6	14,6	18,5	18,5	6	37
VT2677-0608	OD8 (8/6)	OD10 (10/8)	14	27	24,5	16,6	14,6	21,3	18,5	6	39
VT2677-0800	OD10 (10/8)	OD10 (10/8)	16	28	28	16,6	16,6	21,3	21,3	8	50
VT2677-0809	OD10 (10/8)	OD12 (12/9)	16	32,5	28	19,9	16,6	26	21,3	8	58
VT2677-0811	OD10 (10/8)	OD14 (14/11)	16	36	28	21,9	16,6	28,5	21,3	8	64
VT2677-0900	OD12 (12/9)	OD12 (12/9)	20	34	34,5	19,9	19,9	26	26	9	92
VT2677-1100	OD14 (14/11)	OD14 (14/11)	22	38	37,5	21,9	21,9	28,5	28,5	11	113
VT2677-1200	OD16(16/12)	OD16(16/12)	24	42,5	42,5	24,9	24,9	32	32	12	146
VT2677-1500	OD20(20/15)	OD20(20/15)	30	70,6	78,6	30,5	30,5	44,9	44,9	14,5	302

T connector

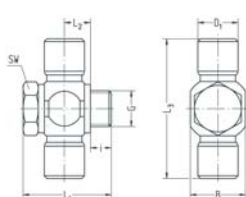


- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

2600

Part no.	for hose A	for hose B	SW	L1	L2	D1	D2	t1	t2	NW	g/piece
VT2678-0200	OD4 (4/2)	OD4 (4/2)	9	32	16,7	8,6	8,6	12,7	12,7	2,5	12
VT2678-0206	OD4 (4/2)	OD8 (8/6)	14	32	24,5	8,6	14,6	12,7	18,5	2,5	38
VT2678-0400	OD6 (6/4)	OD6 (6/4)	11	40	20	11,4	11,4	15,5	15,5	4	24
VT2678-0409	OD6 (6/4)	OD12 (12/9)	20	40	34,5	11,4	19,9	15,5	26	4	92
VT2678-0600	OD8 (8/6)	OD8 (8/6)	14	49	24,5	14,6	14,6	18,5	18,5	6	47
VT2678-0608	OD8 (8/6)	OD10 (10/8)	16	49	28	14,6	16,6	18,5	21,3	6	61
VT2678-0800	OD10 (10/8)	OD10 (10/8)	16	56	28	16,6	16,6	21,3	21,3	8	56
VT2678-0900	OD12 (12/9)	OD12 (12/9)	20	68	34,5	19,9	19,9	26	26	9	114
VT2678-1100	OD14 (14/11)	OD14 (14/11)	22	76	37,5	21,9	21,9	28,5	28,5	11	139
VT2678-1200	OD16 (16/12)	OD16 (16/12)	24	85	42,5	24,9	24,9	32	32	12	185
VT2678-1500	OD20 (20/15)	OD20 (20/15)	30	140	78,6	30,5	30,5	44,9	44,9	14,5	370

Double swivel joint

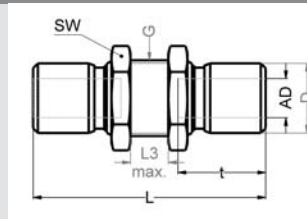


- Whitworth pipe thread DIN ISO 228
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

Part no.	G	for hose	SW	i	L1	L2	L3	B	D1	NW	g/piece
VT2638-0202K	G1/8	OD4 (4/2)	14	5,5	28,5	9,5	36,4	16	8,5	2	40
VT2638-0203K	G1/8	OD5 (5/3)	14	5,5	28,5	9,5	39	16	10,5	3	42
VT2638-0204K	G1/8	OD6 (6/4)	14	5,5	28,5	9,5	42	16	11,5	4	45
VT2638-0206K	G1/8	OD8 (8/6)	14	5,5	28,5	9,5	48	16	14,5	5,2	53
VT2638-0243K	G1/8	OD4,3 (4,3/3)	14	5,5	28,5	9,5	36,4	16	9	3	41
VT2638-0402K	G1/4	OD4 (4/2)	17	7,5	30,5	9,5	40	20	8,5	2	58
VT2638-0403K	G1/4	OD5 (5/3)	17	7,5	30,5	9,5	43	20	10,5	3	60
VT2638-0404K	G1/4	OD6 (6/4)	17	7,5	30,5	9,5	46	20	11,5	4	63
VT2638-0406K	G1/4	OD8 (8/6)	17	7,5	30,5	9,5	52	20	14,5	6	71
VT2638-0408K	G1/4	OD10 (10/8)	17	7,5	30,5	9,5	57	20	16,5	7,2	75
VT2638-0443K	G1/4	OD4,3 (4,3/3)	17	7,5	30,5	9,5	40	20	9	3	58
VT2638-0604K	G3/8	OD6 (6/4)	22	7,5	31,5	9,5	50	22	11,5	4	80
VT2638-0606K	G3/8	OD8 (8/6)	22	7,5	31,5	9,5	56	22	14,5	6	89
VT2638-0608K	G3/8	OD10 (10/8)	22	7,5	31,5	9,5	61	22	16,5	8	94
VT2638-0804K	G1/2	OD6 (6/4)	27	9	33,5	9,5	54	29	11,5	4	122
VT2638-0806K	G1/2	OD8 (8/6)	27	9	33,5	9,5	60	29	14,5	6	130
VT2638-0808K	G1/2	OD10 (10/8)	27	9	33,5	9,5	67	29	16,5	8	136

Bulkhead connector

- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

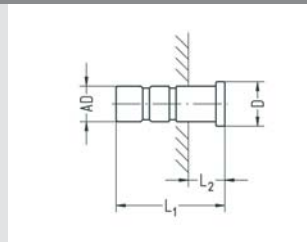


2600

Part no.	for hose	G	SW	L	L3 max.	D	t	NW	g/piece
VT2680-0202	OD4 (4/2)	M12x1	14	34	6	8,6	12,7	2,5	20
VT2680-0404	OD6 (6/4)	M14x1	17	43	8	11,4	15,5	4	37
VT2680-0606	OD8 (8/6)	M16x1	19	49	8	14,6	18,5	6	52
VT2680-0808	OD10 (10/8)	M18x1	22	56	10	16,6	21,3	8	70
VT2680-0909	OD12 (12/9)	M22x1	27	63	12	19,9	26	9	117
VT2680-1111	OD14 (14/11)	M25x1	30	66	12	21,9	28,5	11	137
VT2680-1212	OD16 (16/12)	M28x1	32	72	12	24,9	32	12	185
VT2680-1515	OD20(20/15)	M34x1	41	103	15	30,5	45	14,5	334

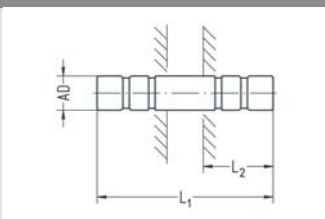
Closure plug

- **Material with media contact:** Brass, dezincification resistant
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar
- Fits all connections in the series 2400 and 2600 in the respective size



Part no.	plug AD	L1	L2	D	g/piece
2623-0200	4	19	7	5,5	2
2623-4300	4,3	19	7	5,5	2
2623-0300	5	21	7,5	7	4
2623-0400	6	21,5	6,5	8	5
2623-0600	8	24,5	6,5	10	11
2623-0800	10	28	7,5	12	19
2623-0900	12	33	7	14	32
2623-1100	14	36	7,5	16	47
2623-1200	16	38	7,5	17,8	33

Double plug

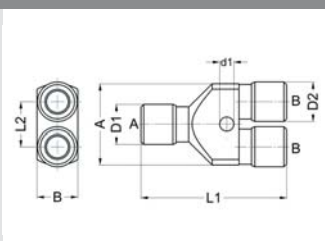


- **Material with media contact:** Brass, dezincification resistant
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar
- Fits all connections in the series 2400 and 2600 in the respective size

2600

Part no.	plug AD	L1	L2	NW	g/piece
2622-0202	4	30	12	2	2
2622-4343	4,3	30	12	3	2
2622-0303	5	35	13,5	3	3
2622-0404	6	36	15	4	4
2622-0606	8	41	18	6	7
2622-0808	10	47	20,5	8	10
2622-0909	12	60	26	10	17
2622-1111	14	64	28,5	12	21

Y connector

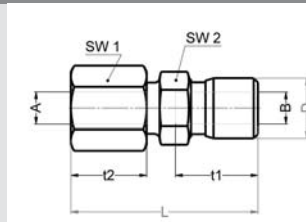


- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

Part no.	for hose A	for hose B	L1	L2	D1	D2	A	B	d1	NW	g/piece
VT2675-0202	OD4 (4/2)	OD4 (4/2)	35	11	8,5	8,5	20	10	3,2	2	13
VT2675-4302	OD4,3 (4,3/3)	OD4 (4/2)	35	11	9	8,5	20	10	3,2	2	13
VT2675-0402	OD6 (6/4)	OD4 (4/2)	37,5	11	11,5	8,5	20	10	3,2	2	17
VT2675-0404	OD6 (6/4)	OD6 (6/4)	44	13,2	11,5	11,5	25	10	4,2	4	24
VT2675-0604	OD8 (8/6)	OD6 (6/4)	46	13,2	14,5	11,5	25	12	4,2	4	32
VT2675-0606	OD8 (8/6)	OD8 (8/6)	55	16,5	14,5	14,5	30	12	5,2	6	48
VT2675-0806	OD10 (10/8)	OD8 (8/6)	55	16,5	16,5	14,5	30	17	5,2	6	46
VT2675-0808	OD10 (10/8)	OD10 (10/8)	60,5	19	16,5	16,5	35	17	5,2	8	44
VT2675-0906	OD12 (12/9)	OD8 (8/6)	59,5	16,5	20	14,5	30	21	5,2	6	68
VT2675-0908	OD12 (12/9)	OD10 (10/8)	64	19	20	16,5	35	21	5,2	8	80
VT2675-0909	OD12 (12/9)	OD12 (12/9)	72	21,8	20	20	40	21	5,2	9	106
VT2675-1108	OD14 (14/11)	OD10 (10/8)	65,5	18,4	22	16,5	35	23	5,2	8	83
VT2675-1109	OD14 (14/11)	OD12 (12/9)	73	21,8	22	20	40	23	5,2	9	116
VT2675-1111	OD14 (14/11)	OD14 (14/11)	79	23,8	22	22	45	23	5,2	11	129

Double connector, adapter for pipe/ hose

- Combination between cutting ring screw joint and plug connector
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

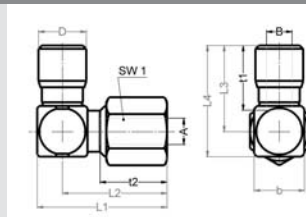


2600

Part no.	for hose A	for pipe B	SW1	SW2	L	D	t1	t2	g/piece
VT2647-0604	OD6 (6/4)	6	14	12	39	11,4	16	17	29
VT2647-0606	OD8 (8/6)	6	14	14	43	14,8	18	17	36
VT2647-0608	OD10 (10/8)	6	14	17	45	16,6	21	17	42
VT2647-0804	OD6 (6/4)	8	17	17	40	11,4	16	17	45
VT2647-0806	OD8 (8/6)	8	17	17	43	14,6	18	17	48
VT2647-0808	OD10 (10/8)	8	17	17	45	16,6	21	17	50
VT2647-1006	OD8 (8/6)	10	19	17	44	14,6	18	18	57
VT2647-1008	OD10 (10/8)	10	19	17	46	16,6	21	18	58

Elbow connector, adapter for pipe/ hose

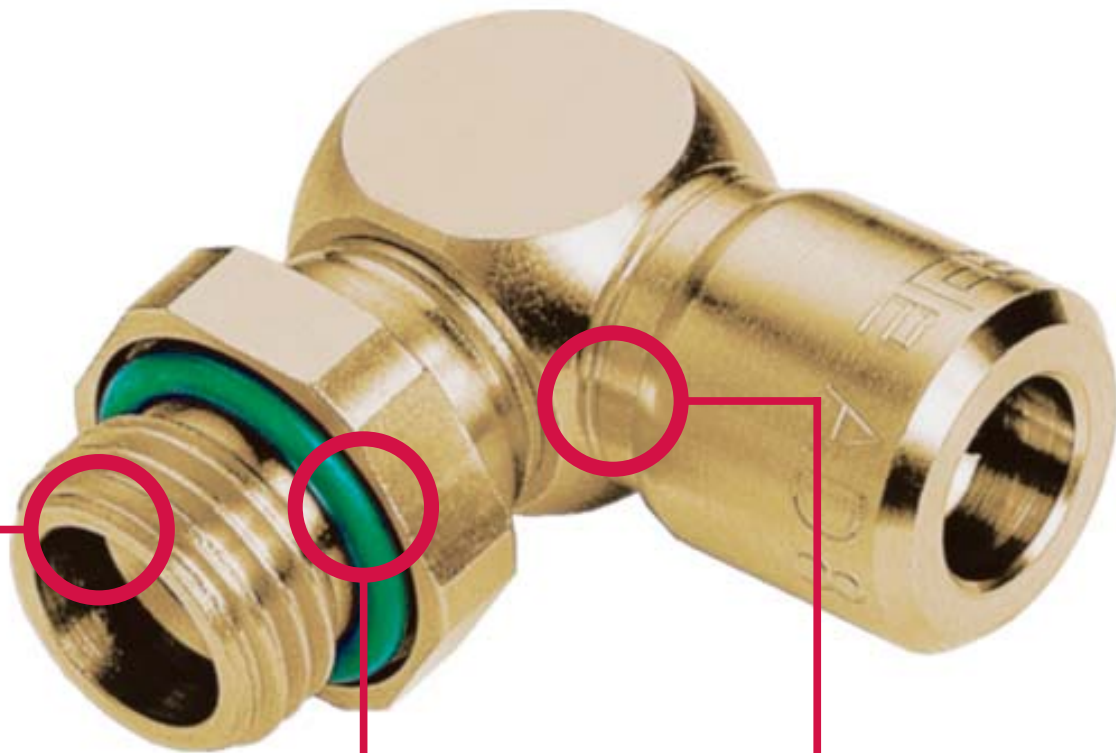
- Combination between cutting ring screw joint and plug connector
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar



Part no.	for hose A	for pipe B	SW1	L1	L2	L3	L4	t1	t2	b	D	NW	g/piece
VT2646-0604	OD6 (6/4)	6	14	32	26	20,5	26,5	16	17	12	11,4	4,5	35
VT2646-0606	OD8 (8/6)	6	14	34	27	24,5	31,5	18	17	14	14,6	6,5	46
VT2646-0608	OD10 (10/8)	6	14	36	28	28	36	21	17	16	16,6	4,5	56
VT2646-0804	OD6 (6/4)	8	17	34	27	21,5	28,5	16	17	14	11,4	4,5	50
VT2646-0806	OD8 (8/6)	8	17	34	27	24,5	31,5	18	17	14	14,6	6,5	53
VT2646-0808	OD10 (10/8)	8	17	36	28	28	36	21	17	16	16,6	6,5	63
VT2646-1006	OD8 (8/6)	10	19	38	30	25,5	33,5	18	18	16	14,6	6,5	70
VT2646-1008	OD10 (10/8)	10	19	38	29,5	28	36	21	18	16	16,6	8,5	71

Series 2400 - Plug connectors with release sleeve and 2 seals

2400



Maximum security against leakage

- two seals minimize the risk of leakage considerably
- dezincification-resistant brass, suitable for almost all applications with water
- high-quality seals made out of FPM

Sophisticated technology for all applications

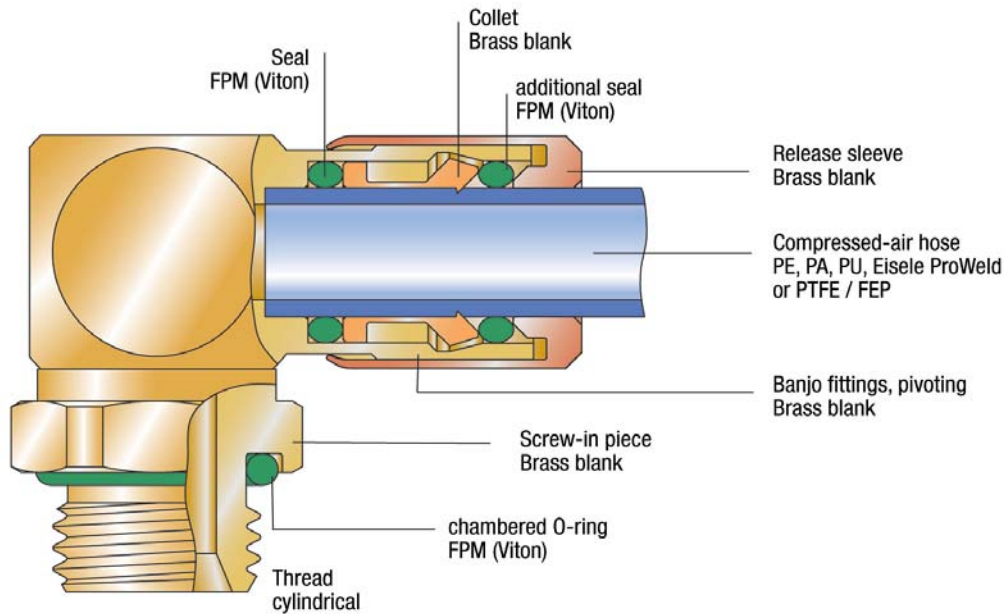
- patented system with 2 seals
- dirt-repellent release sleeve
- resistant against weld spatters
- shut-off valve optionally available
- exclusive design

Perfect for high pressures

- ideal for the use with compressed air up to 24 bar
- high pressures up to 100 bar possible by using fluids in conjunction with pipes
- full hose passage

The connector for applications with the highest requirements.

Functional principle



The collet guarantees the secure clamp of the plugged in hose. The external release sleeve protects the connector of dirt and makes it possible to release the hose without any tools. Through the patented 2-sealing system the use of this plug-in technology is also possible in areas in which leakage is not allowed. E.g. electrical contacts or measuring devices.

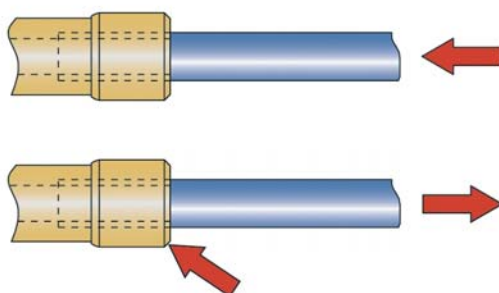
Range of application

- Cooling water systems with medium pressure from -0.95 to 24 / 100 bar
- Heat sink connections for power electronics
- Lubricating lines
- Clean Room applications on request

Service conditions

- Temperature range -20 to +120°C
- Working pressure range -0.95 to 16 bar, depending on the used hose
- suitable for vacuum
- 2-sealing system for reliable tight connections
- full hose passage
- flow-rate optimized
- dirt-repellent design
- fast assembly
- disassembly without tools possible
- Thread with chambered O-Ring

Handling

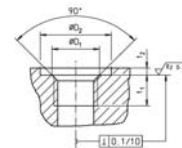


Assembly: Push hose into the connector up to the limit stop

Disassembly: Push release sleeve, pull out hose

Connection thread, cylindrical

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)	
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	

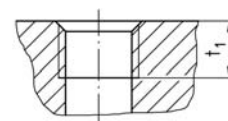


¹⁾ A counterbore is not necessary. However, the indicated values apply if a counterbore is applied.

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

Connection thread, conical

Thread	Thread depth t1 min. (mm)	Recommended torque max. (Ncm)	Thread standards
R1/8	7,4	700	Pipe thread ISO 7-1 / EN 10226-1
R1/4	11	1500	
R3/8	11,4	2200	
R1/2	15	4000	
R3/4	16,3	6000	



2400

Hoses

Hose outside diameter	Tolerance outside diameter	ProWeld 99118	PU-H 99150	PE 99004	PTFE 99001	FEP 99501
4 mm	± 0.1 mm	4/2	4/2.5	4/2	4/2	4/2
6 mm	± 0.1 mm	6/3	6/4	6/4	6/4	6/4
8 mm	± 0.15 mm	8/4, 8/5.5	8/6	8/6	8/6	8/6
10 mm	± 0.15 mm	10/6	10/7	10/8	-	-
12 mm	± 0.15 mm	12/8	12/8	-	-	-
14 mm	± 0.15 mm	14/10	-	-	-	-
16 mm	± 0.15 mm	16/11	16/11	-	-	-



Threaded connectors

starting on page 25



Straight threaded connectors

page 25



Angled threaded connectors

page 26

Plug connector

starting on page 29



T connectors

page 29



Bulkhead connectors

page 29

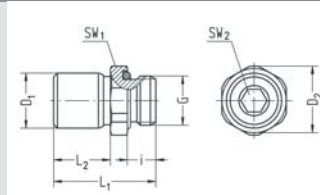
Accessories

starting on page 42

2400

Screw-in connector

- Whitworth pipe thread DIN ISO 228
- Chambered O-ring
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 24 bar ¹⁾

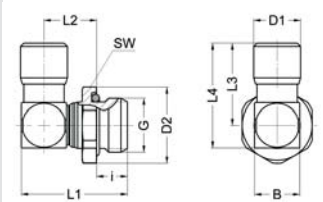


Part no.	G	for hose	SW1	SW2	i	L1	L2	D1	D2	NW	g/piece
VT2428-0202	G1/8	OD4 (4/2)	13	3	5.5	19	9,8	8,8	14.2	3	9
VT2428-0204	G1/8	OD6 (6/4)	13	5	5.5	25	15,6	11,6	14.2	4,5	12
VT2428-0206	G1/8	OD8 (8/6)	14	5	5.5	28,8	19,5	14,8	15.2	5	18
VT2428-0208	G1/8	OD10 (10/8)	15	5	5.5	33	22	16,8	16,5	5	24
VT2428-0404	G1/4	OD6 (6/4)	17	5	7.5	23,5	11,8	11,6	18.5	5	18
VT2428-0406	G1/4	OD8 (8/6)	17	6	7.5	27	15,3	14,8	18.5	6	21
VT2428-0408	G1/4	OD10 (10/8)	17	8	7.5	34	22,3	16,8	18.5	8	27
VT2428-0409	G1/4	OD12 (12/9)	20	8	7.5	39,5	24,8	20,1	21.8	8	42
VT2428-0606	G3/8	OD8 (8/6)	20	6	7.5	28	15,3	14,8	21.8	6	32
VT2428-0608	G3/8	OD10 (10/8)	20	8	7.5	30,5	17,5	16,8	21.8	8	33
VT2428-0609	G3/8	OD12 (12/9)	20	9	7.5	36,5	23,5	20,1	21.8	9	41
VT2428-0611	G3/8	OD14 (14/11)	20	10	7.5	43	27,5	22,1	21.8	11	47
VT2428-0612	G3/8	OD16 (16/12)	24	10	7.5	46	30,5	25,1	23,4	12,5	63
VT2428-0806	G1/2	OD8 (8/6)	24	6	9.5	34	18,5	14,8	26.2	6,5	48
VT2428-0808	G1/2	OD10 (10/8)	24	8	9.5	37	20,5	16,8	26.2	8,5	50
VT2428-0809	G1/2	OD12 (12/9)	24	9	9.5	39	22,5	20,1	26.2	9	55
VT2428-0811	G1/2	OD14 (14/11)	24	10	9.5	40,5	24	22,1	26.2	11	57
VT2428-0812	G1/2	OD16 (16/12)	24	12	9.5	46	30	25,1	26.2	12,5	64

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

2400

Elbow screw-in connector swiveling



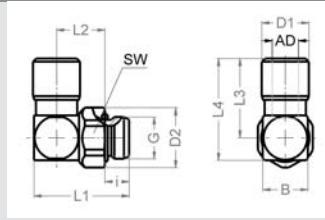
- Whitworth pipe thread DIN ISO 228
- Chambered O-ring
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 24 bar ¹⁾

Part no.	G	for hose	SW	i	L1	L2	L3	L4	B	D1	D2	t	NW	g/piece
VT2404-0202	G1/8	OD4 (4/2)	13	5,5	23	13	17,8	22,3	9	8,8	14,2	13,7	2,5	15
VT2404-0204	G1/8	OD6 (6/4)	13	5,5	26	15	22	27,5	11	11,6	14,2	17,1	4,5	23
VT2404-0206	G1/8	OD8 (8/6)	13	5,5	31,5	19	26,5	33,5	14	14,8	15,2	20,3	5,5	42
VT2404-0208	G1/8	OD10 (10/8)	13	5,5	31,5	19	29	36	14	16,8	15,2	23,3	5,5	45
VT2404-0402	G1/4	OD4 (4/2)	17	7,5	25	13	17,8	22,3	9	8,8	18,5	13,7	2,5	22
VT2404-0404	G1/4	OD6 (6/4)	17	7,5	27	14	22	27,5	11	11,6	18,5	17,1	4,5	29
VT2404-0406	G1/4	OD8 (8/6)	17	7,5	31,5	17	26,5	33,5	14	14,8	18,5	20,3	6,5	44
VT2404-0408	G1/4	OD10 (10/8)	17	7,5	36,3	20,8	29	37	16	16,8	18,5	23,3	8,5	54
VT2404-0409	G1/4	OD12 (12/9)	17	7,5	36,3	20,8	35	43	16	20,1	18,5	28,3	8,5	65
VT2404-0411	G1/4	OD14 (14/11)	17	7,5	36,3	20,8	38,5	46,5	16	22,1	18,5	31,2	8,5	71
VT2404-0604	G3/8	OD6 (6/4)	17	7,5	27	14	22	27,5	11	11,6	21,8	17,1	4,5	31
VT2404-0606	G3/8	OD8 (8/6)	17	7,5	30	15,5	26,5	33,5	14	14,8	21,8	20,3	6,5	49
VT2404-0608	G3/8	OD10 (10/8)	17	7,5	33,3	17,8	30	38	16	16,8	21,8	23,3	8,5	59
VT2404-0609	G3/8	OD12 (12/9)	17	7,5	40,3	22,8	37	47	20	20,1	21,8	28,3	8,5	97
VT2404-0611	G3/8	OD14 (14/11)	17	7,5	43,5	25	41	52	22	22,1	21,8	31,2	11	116
VT2404-0612	G3/8	OD16 (16/12)	17	7,5	46	26,5	48,3	60,3	24	25,1	23,4	36,5	12,5	154
VT2404-0804	G1/2	OD6 (6/4)	20	9,5	30,5	15,5	22	27,5	11	11,6	26,2	17,1	4,5	56
VT2404-0806	G1/2	OD8 (8/6)	20	9,5	33,5	17	26,5	33,5	14	14,8	26,2	20,3	6,5	70
VT2404-0808	G1/2	OD10 (10/8)	20	9,5	35,8	18,3	30	38	16	16,8	26,2	23,3	8,5	80
VT2404-0809	G1/2	OD12 (12/9)	20	9,5	39,8	20,3	37	47	20	20,1	26,2	28,3	9	111
VT2404-0811	G1/2	OD14 (14/11)	20	9,5	42,5	22	41	52	22	22,1	26,2	31,2	11	127
VT2404-0812	G1/2	OD16 (16/12)	20	9,5	47,5	26	48,8	60,8	24	25,1	26,2	36,5	12,5	163

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

Elbow screw-in connector lockable

- Whitworth pipe thread DIN ISO 228
- Chambered O-ring, FPM seals
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 24 bar ¹⁾
- Stiff angular shape, can be locked with jam nut



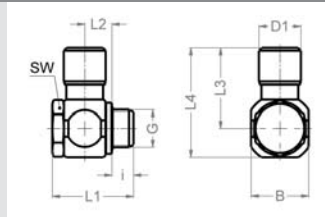
Part no.	G	for hose	SW	i	L1	L2	L3	L4	B	D1	D2	NW	g/piece
VT2440-0202	G1/8	OD4 (4/2)	13	5,5	20,5	10	16,5	21,5	10	8,6	14,2	3	17
VT2440-0204	G1/8	OD6 (6/4)	13	5,5	21,5	10,5	20	25,5	11	11,4	14,2	5	20
VT2440-0206	G1/8	OD8 (8/6)	13	5,5	24,5	12	24,5	31,5	14	14,6	14,2	5,5	34
VT2440-0208	G1/8	OD10 (10/8)	13	5,5	26,5	13	28	36	16	16,6	14,2	5,5	44
VT2440-0402	G1/4	OD4 (4/2)	17	7,5	24	11,5	16,5	21,5	10	8,6	18,5	3	24
VT2440-0404	G1/4	OD6 (6/4)	17	7,5	27	12,5	21,5	28,5	14	11,4	18,5	5	37
VT2440-0406	G1/4	OD8 (8/6)	17	7,5	27	12,5	24,5	31,5	14	14,6	18,5	6	40
VT2440-0408	G1/4	OD10 (10/8)	17	7,5	29	13,5	28	36	16	16,6	18,5	8	49
VT2440-0409	G1/4	OD12 (12/9)	17	7,5	31	14,5	33	42	18	19,9	18,5	8	73
VT2440-0606	G3/8	OD8 (8/6)	20	7,5	28	13,5	24,5	31,5	14	14,6	21,8	6	48
VT2440-0608	G3/8	OD10 (10/8)	20	7,5	30	14,5	28	36	16	16,6	21,8	8	58
VT2440-0609	G3/8	OD12 (12/9)	20	7,5	32	15,5	33	42	18	19,9	21,8	9	75
VT2440-0611	G3/8	OD14 (14/11)	20	7,5	35,5	18	36,5	46,5	20	21,9	21,8	11,5	87
VT2440-0612	G3/8	OD16 (16/12)	20	7,5	39,5	20	42,4	54,4	24	24,9	21,8	11,5	128
VT2440-0806	G1/2	OD8 (8/6)	24	9,5	31	14,5	24,5	31,5	14	14,6	26,2	6	55
VT2440-0808	G1/2	OD10 (10/8)	24	9,5	33	15,5	28	36	16	16,6	26,2	8	63
VT2440-0809	G1/2	OD12 (12/9)	24	9,5	35	16,5	33	42	18	19,9	26,2	9	95
VT2440-0811	G1/2	OD14 (14/11)	24	9,5	39	19,5	36,5	46,5	20	21,9	26,2	11,5	110
VT2440-0812	G1/2	OD16 (16/12)	24	9,5	43	21,5	42,4	54,4	24	24,9	26,2	12,5	120

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

2400

Single swivel joint

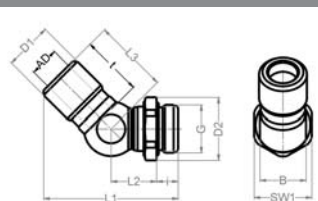
- Whitworth pipe thread DIN ISO 228
- VS seal rings
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range: -20 to +120 °C
- Working pressure range: -0,95 to 24 bar ¹⁾



Part no.	G	for hose	SW	i	L1	L2	L3	L4	B	D1	NW	g/piece
VT2434-0202K	G1/8	OD4 (4/2)	13	5,5	26,5	9,5	24,5	32,5	16	8,5	2,5	39
VT2434-0204K	G1/8	OD6 (6/4)	13	5,5	26,5	9,5	24,5	32,5	16	11,5	5	41
VT2434-0206K	G1/8	OD8 (8/6)	13	5,5	26,5	9,5	24,5	32,5	16	14,5	6	45
VT2434-0208K	G1/8	OD10 (10/8)	13	5,5	26,5	9,5	24,5	32,5	16	16,5	6	49
VT2434-0404K	G1/4	OD6 (6/4)	17	7,5	28,2	9,5	23	33	20	11,5	5	58
VT2434-0406K	G1/4	OD8 (8/6)	17	7,5	28,2	9,5	26	36	20	14,5	7	63
VT2434-0408K	G1/4	OD10 (10/8)	17	7,5	28,2	9,5	28,5	38,5	20	16,5	8	65
VT2434-0409K	G1/4	OD12 (12/9)	17	7,5	32,7	11,7	33,5	43,5	20	20	8	70

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

Elbow screw-in connector 45°, swiveling



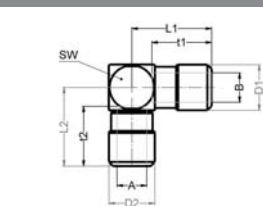
- Whitworth pipe thread DIN ISO 228
- Chambered O-ring
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 24 bar ¹⁾

2400

Part no.	G	for hose	SW1	i	L1	L2	L3	B	D1	D2	t	NW	g/piece
VT2498-0202	G1/8	OD4 (4/2)	13	5,5	31,3	11,3	16,5	8,5	8,5	14,2	13,7	2,5	14
VT2498-0204	G1/8	OD6 (6/4)	13	5,5	35,3	12,9	19	11	11,5	14,2	17,1	4,2	19
VT2498-0206	G1/8	OD8 (8/6)	14	5,5	42,8	16,6	23	14	14,5	15,2	20,3	5,5	35
VT2498-0208	G1/8	OD10 (10/8)	14	5,5	45,6	16,6	26	16	16,5	15,5	23,3	5,5	43
VT2498-0404	G1/4	OD6 (6/4)	17	7,5	35,3	10,9	19	11	11,5	18,5	17,1	4,2	23
VT2498-0406	G1/4	OD8 (8/6)	17	7,5	42,8	14,6	23	14	14,5	18,5	20,3	6,5	36
VT2498-0408	G1/4	OD10 (10/8)	17	7,5	49,7	18,8	26	16	16,5	18,5	23,3	8,5	48
VT2498-0409	G1/4	OD12 (12/9)	17	7,5	53	18,8	30,5	16	20	18,5	28,3	8,5	55
VT2498-0606	G3/8	OD8 (8/6)	20	7,5	41,3	13,1	23	14	14,5	21,8	20,3	6,5	41
VT2498-0608	G3/8	OD10 (10/8)	20	7,5	46,7	15,9	26	16	16,5	21,8	23,3	8,5	51
VT2498-0609	G3/8	OD12 (12/9)	20	7,5	54,7	18,8	32	20	20	21,8	28,3	9	77
VT2498-0611	G3/8	OD14 (14/11)	22	7,5	59,3	20,7	35	22	22	23,8	31,2	11	91
VT2498-0612	G3/8	OD16 (16/12)	24	7,5	66,1	22,2	41	24	25	26,2	36,5	12,5	110
VT2498-0806	G1/2	OD8 (8/6)	24	9,5	44,8	14,6	23	14	14,5	26,2	20,3	6,5	60
VT2498-0808	G1/2	OD10 (10/8)	24	9,5	49,2	16,3	26	16	16,5	26,2	23,3	8,5	69
VT2498-0809	G1/2	OD12 (12/9)	24	9,5	54,3	16,4	32	20	20	26,2	28,3	9	89
VT2498-0811	G1/2	OD14 (14/11)	24	9,5	58,3	17,7	35	22	22	26,2	31,2	11	101
VT2498-0812	G1/2	OD16 (16/12)	24	9,5	67,6	21,7	41	24	25	26,2	36,5	12,5	119

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

Elbow connector



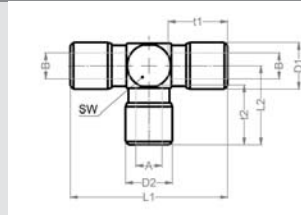
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 24 bar ¹⁾

Part no.	for hose A	for hose B	SW	L1	L2	D1	D2	t1	t2	NW	g/piece
VT2477-0200	OD4 (4/2)	OD4 (4/2)	9	16,7	16	8,5	8,5	13,7	13,7	2	10
VT2477-0400	OD6 (6/4)	OD6 (6/4)	11	20	20	11,5	11,5	17,1	17,1	4	19
VT2477-0600	OD8 (8/6)	OD8 (8/6)	14	24,5	24,5	14,5	14,5	20,3	20,3	6	37
VT2477-0800	OD10 (10/8)	OD10 (10/8)	16	28	28	16,5	16,5	23,3	23,3	8	43
VT2477-0900	OD12 (12/9)	OD12 (12/9)	20	34,5	34	20	20	28,3	28,3	9	92
VT2477-1100	OD14 (14/11)	OD14 (14/11)	22	38	38	22	22	31,2	31,2	11	112
VT2477-1200	OD16 (16/11)	OD16 (16/11)	24	42,5	42,5	25	25	36,5	36,5	12	145

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

T connector

- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 24 bar ¹⁾



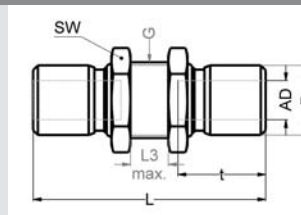
Part no.	for hose A	for hose B	SW	L1	L2	D1	D2	t1	t2	NW	g/piece
VT2478-0200	OD4 (4/2)	OD4 (4/2)	9	33,4	16	8,5	8,5	13,7	13,7	2	12
VT2478-0206	OD4 (4/2)	OD8 (8/6)	14	45	18,5	8,5	14,5	13,7	20,3	2	38
VT2478-0400	OD6 (6/4)	OD6 (6/4)	11	40	20	11,5	11,5	17,1	17,1	4	24
VT2478-0409	OD6 (6/4)	OD12 (12/9)	20	61	24,5	11,5	20	17,1	28,3	4	92
VT2478-0600	OD8 (8/6)	OD8 (8/6)	14	49	24,5	14,5	14,5	20,3	20,3	6	47
VT2478-0608	OD8 (8/6)	OD10 (10/8)	16	56	27	14,5	16,5	20,3	23,3	6	61
VT2478-0609	OD8 (8/6)	OD12 (12/9)	20	69	29,5	14,5	20	20,3	28,3	6	104
VT2478-0800	OD10 (10/8)	OD10 (10/8)	16	56	28	16,5	16,5	23,3	23,3	8	56
VT2478-0900	OD12 (12/9)	OD12 (12/9)	20	69	34	20	20	28,3	28,3	9	114
VT2478-1100	OD14 (14/11)	OD14 (14/11)	22	76	37,5	22	22	31,2	31,2	11	139
VT2478-1200	OD16 (16/11)	OD16 (16/11)	24	84,5	42,5	25	25	36,5	36,5	12	185

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

2400

Bulkhead connector

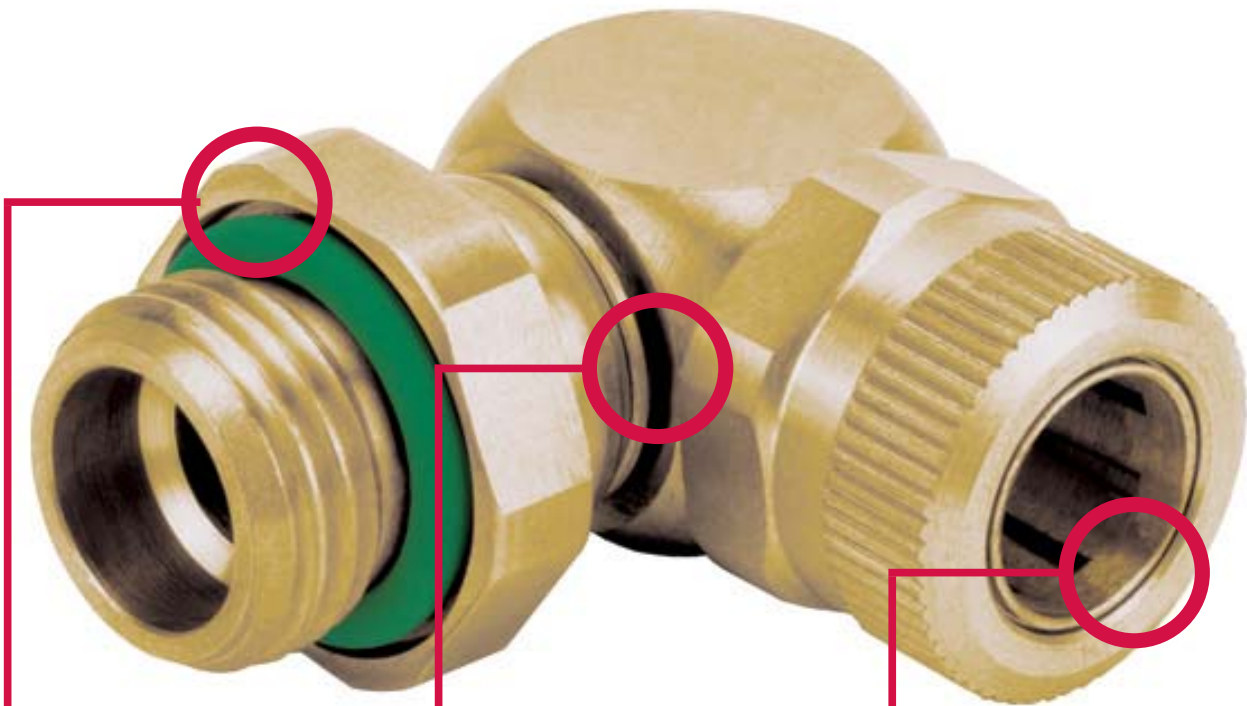
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 24 bar ¹⁾



Part no.	for hose	G	SW	L	L3 max.	D	t	NW	g/piece
VT2480-0202	OD4 (4/2)	M12x1	14	34	6	8,5	13,7	2	20
VT2480-0404	OD6 (6/4)	M14x1	17	43	8	11,5	17,1	4	37
VT2480-0606	OD8 (8/6)	M16x1	19	49	8	14,5	20,3	6	52
VT2480-0808	OD10 (10/8)	M18x1	22	56	10	16,5	23,3	8	70
VT2480-0909	OD12 (12/9)	M22x1	27	63	12	20	28,3	9	117
VT2480-1111	OD14 (14/11)	M24x1	30	66	12	22	31,2	11	137
VT2480-1212	OD16 (16/12)	M27x1	32	72	12	25	36,5	12	185

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

Series 2500 - Screw joints with larger nominal width



2500

Classical Screw joints

- patented screw joint technique with 1 seal
- dezincification-resistant brass, suitable for almost all applications with water
- high-quality seals made of FPM

Outstanding holding ability

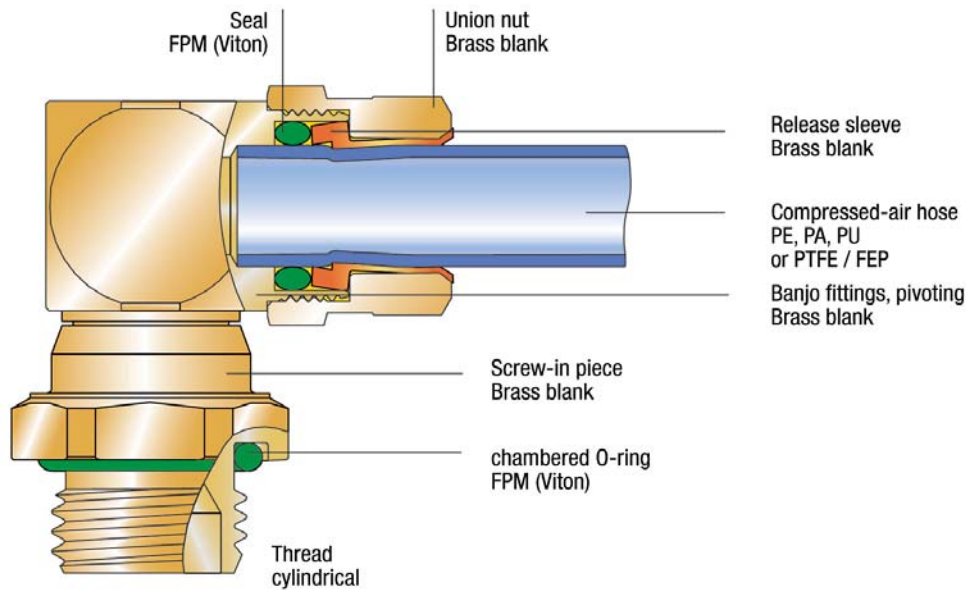
- maximum hose retention force
- Even after a long time the hose can still be released and screwed together

Intuitive handling and assembly

- full hose passage
- intuitive assembly through touchable end stop
- closed position viewable

Modern screw joints for applications with high requirements regarding the retention form.

Functional principle



The hose is plugged-in in the pre-assembled screw-joint. The collet securely holds the hose after the union nut is tightened. Even after a long time the hose can still be released and screwed together without any damage.

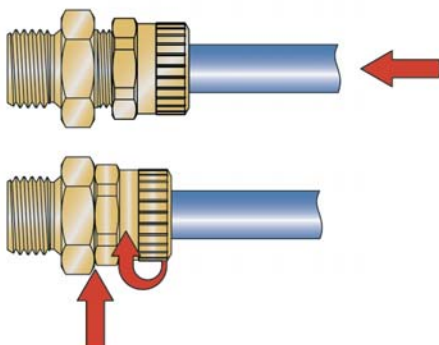
Range of application

- Connections with high requirements regarding the retention force
- Connections with hose movement
- Moveable systems with high dynamic
- Strong fluctuating pressures and pressure surges

Service conditions

- Temperature range -20 to +120°C
- Working pressure range -0.95 to 16 bar, depending on the used hose
- suitable for vacuum
- full hose passage
- flow-rate optimized
- fast assembly
- disassembly without hose damage possible
- intuitive handling through touchable end stop
- closed position is visible from the outside
- Thread with chambered O-Ring

Handling

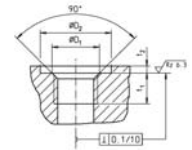


Assembly: Push hose into the connector up to the limit stop

Disassembly: Push release sleeve, pull out hose

Connection thread, cylindrical

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)	
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	

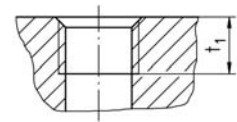


¹⁾ A counterbore is not necessary. However, the indicated values apply if a counterbore is applied.

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

Connection thread, conical

Thread	Thread depth t1 min. (mm)	Recommended torque max. (Ncm)	Thread standards
R1/8	7,4	700	Pipe thread ISO 7-1 / EN 10226-1
R1/4	11	1500	
R3/8	11,4	2200	
R1/2	15	4000	
R3/4	16,3	6000	



2500

Hoses

Hose outside diameter	Tolerance outside diameter	ProWeld 99118	PU-H 99150	PE 99004	PTFE 99001	FEP 99501
4 mm	± 0.1 mm	4/2	4/2.5	4/2	4/2	4/2
6 mm	± 0.1 mm	6/3	6/4	6/4	6/4	6/4
8 mm	± 0.15 mm	8/4, 8/5.5	8/6	8/6	8/6	8/6
10 mm	± 0.15 mm	10/6	10/7	10/8	-	-
12 mm	± 0.15 mm	12/8	12/8	-	-	-
14 mm	± 0.15 mm	14/10	-	-	-	-
16 mm	± 0.15 mm	16/11	16/11	-	-	-



Threaded connectors

starting on page 35



Straight threaded connectors

page 35



Angled threaded connectors

page 35

Plug connector

starting on page 37



Elbow connectors

page 37



T connectors

page 37



Bulkhead connectors

page 37

Pipe/ hose adapter

starting on page 38



Double screw joints

page 38



Elbow screw joints

page 38

Push-through screw joints

starting on page 38

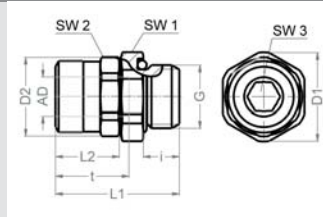
Accessories

starting on page 42

2500

Screw-in connector

- Whitworth pipe thread DIN ISO 228
- Chambered O-ring
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

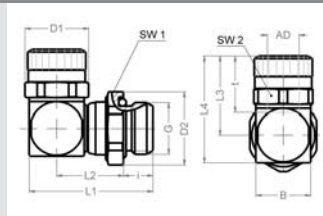


Part no.	G	for hose	SW1	SW2	SW3	i	L1	L2	D1	D2	t	NW	g/piece
VT2528-0202	G1/8	OD4 (4/2)	13	10	3	5,5	22	11,6	14,2	11,2	13	3	12
VT2528-0204	G1/8	OD6 (6/4)	13	12	4	5,5	23,8	13	14,2	13,1	15	4,5	14
VT2528-0206	G1/8	OD8 (8/6)	14	15	5	5,5	25,5	15	15,2	16,4	17	5,5	17
VT2528-0402	G1/4	OD4 (4/2)	17	10	3	7,5	24,3	11,8	18,5	11,2	13	3	19
VT2528-0404	G1/4	OD6 (6/4)	17	12	4	7,5	25,8	13	18,5	13,1	15	4,5	21
VT2528-0406	G1/4	OD8 (8/6)	17	15	6	7,5	27,5	15	18,5	16,4	17	6,5	24
VT2528-0408	G1/4	OD10 (10/8)	17	17	8	7,5	28,8	15	18,5	18,5	18	8,5	26
VT2528-0409	G1/4	OD12 (12/9)	20	22	8	7,5	32	16,5	21,8	23,5	20	8,5	49
VT2528-0606	G3/8	OD8 (8/6)	20	15	6	7,5	27,5	15	21,8	16,4	17	6,5	30
VT2528-0608	G3/8	OD10 (10/8)	20	17	8	7,5	28	15	21,8	18,5	18	8,5	32
VT2528-0609	G3/8	OD12 (12/9)	22	22	8	7,5	32	16,5	23,8	23,5	20	8,5	59
VT2528-0611	G3/8	OD14 (14/11)	22	24	10	7,5	33,2	17,7	23,8	25,5	21,7	10,5	60
VT2528-0808	G1/2	OD10 (10/8)	24	17	8	9,5	31	15	26,2	18,5	18	8,5	53
VT2528-0809	G1/2	OD12 (12/9)	24	22	10	9,5	32	16,5	26,2	23,5	20	10,5	64
VT2528-0811	G1/2	OD14 (14/11)	24	24	12	9,5	33,2	17,7	26,2	25,5	21,7	12,5	65

2500

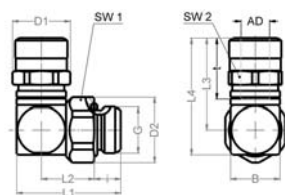
Elbow screw-in connector swiveling

- Whitworth pipe thread DIN ISO 228
- Chambered O-ring
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar



Part no.	G	for hose	SW1	SW2	i	L1	L2	L3	L4	D1	D2	t	B	NW	g/piece
VT2504-0202	G1/8	OD4 (4/2)	13	10	5,5	23	13	17	21	11,2	14,2	13	9	3	18
VT2504-0204	G1/8	OD6 (6/4)	14	12	5,5	26	15	20	25	13,1	14,2	15	11	4,5	24
VT2504-0206	G1/8	OD8 (8/6)	14	15	5,5	31,5	19	23	30	16,4	15,2	17	14	5,5	42
VT2504-0402	G1/4	OD4 (4/2)	17	10	7,5	25	13	17	21	11,2	18,5	13	9	3	24
VT2504-0404	G1/4	OD6 (6/4)	17	12	7,5	27	14	20	25	13,1	18,5	15	11	4,5	30
VT2504-0406	G1/4	OD8 (8/6)	17	15	7,5	31,5	17	23	30	16,4	18,5	17	14	6,5	43
VT2504-0408	G1/4	OD10 (10/8)	17	17	7,5	36,3	20,8	25	33	18,5	18,5	18	16	8,5	56
VT2504-0604	G3/8	OD6 (6/4)	20	12	7,5	27	14	20	25	13,1	21,8	15	11	4,5	38
VT2504-0606	G3/8	OD8 (8/6)	20	15	7,5	30	15,5	23	30	16,5,4	21,8	17	14	6,5	50
VT2504-0608	G3/8	OD10 (10/8)	20	17	7,5	33,3	17,8	25	33	18,5	21,8	18	16	8,5	59
VT2504-0609	G3/8	OD12 (12/9)	20	22	7,5	41,3	23,3	29	39,5	23,5	21,8	20	21	9	113
VT2504-0611	G3/8	OD14 (14/11)	20	24	7,5	43,5	25	31,5	43,1	25,5	21,8	21,7	22	11	126
VT2504-0808	G1/2	OD10 (10/8)	24	17	9,5	35,8	18,3	25	33	18,5	26,2	18	16	8,5	79
VT2504-0809	G1/2	OD12 (12/9)	24	22	9,5	40,8	20,8	29	39,5	23,5	26,2	20	21	9	128
VT2504-0811	G1/2	OD14 (14/11)	24	24	9,5	42,5	22	31,5	43,1	25,5	26,2	21,7	22	11	138

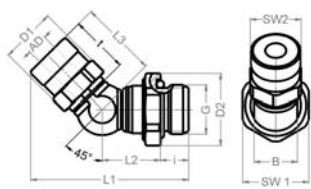
Elbow screw-in connector lockable



- Whitworth pipe thread DIN ISO 228
- Chambered O-ring
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range: -20 to +120 °C
- Working pressure range: -0.95 to 16 bar

Part no.	G	for hose	SW1	SW2	i	L1	L2	L3	L4	B	D1	D2	t	NW	g/piece
VT2540-0202	G1/8	OD4 (4/2)	13	10	5,5	21,5	11	18,5	23,5	10	11	14,2	13	3	21
VT2540-0204	G1/8	OD6 (6/4)	13	12	5,5	22,5	11,5	21,3	26,8	11	13,1	14,2	15	4,5	25
VT2540-0206	G1/8	OD8 (8/6)	13	15	5,5	26,5	14	26	33	14	16,4	14,2	17,3	5,5	41
VT2540-0208	G1/8	OD10 (10/8)	13	17	5,5	29	15,5	28	36	16	18,5	14,2	18,5	5,5	53
VT2540-0402	G1/4	OD4 (4/2)	17	10	7,5	26,5	14	18,5	23,5	10	11	18,5	13	3	33
VT2540-0404	G1/4	OD6 (6/4)	17	12	7,5	27,5	14,5	21,3	26,8	11	13,1	18,5	15	4,5	37
VT2540-0406	G1/4	OD8 (8/6)	17	15	7,5	29,5	15	26	33	14	16,4	18,5	17,3	6	51
VT2540-0408	G1/4	OD10 (10/8)	17	17	7,5	31,5	16	28	36	16	18,5	18,5	18,5	8	60
VT2540-0409	G1/4	OD12 (12/9)	17	22	7,5	33,5	17	31,5	40,5	18	23,5	18,5	20	8	90
VT2540-0606	G3/8	OD8 (8/6)	20	15	7,5	30,5	16	26	33	14	16,4	21,8	17,3	6	60
VT2540-0608	G3/8	OD10 (10/8)	20	17	7,5	32,5	17	28	36	16	18,5	21,8	18,5	8	70
VT2540-0609	G3/8	OD12 (12/9)	20	22	7,5	33,5	17	31,5	40,5	18	23,5	21,8	20	9	98
VT2540-0611	G3/8	OD14 (14/11)	20	24	7,5	35,5	18	33,7	43,7	20	25,5	21,8	21,7	11	112
VT2540-0811	G1/2	OD14 (14/11)	24	24	9,5	41,5	21	34,7	45,7	22	25,5	26,2	21,7	11	144

Elbow screw-in connector 45°, swiveling

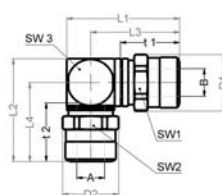


- Whitworth pipe thread DIN ISO 228
- Chambered O-ring
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range: -20 to +120 °C
- Working pressure range: -0.95 to 16 bar

Part no.	G	for hose	SW1	SW2	i	L1	L2	L3	B	D1	D2	t	NW	g/piece
VT2598-0202	G1/8	OD4 (4/2)	13	10	5,5	32	11,5	16,6	8,5	11,1	14,2	13	3	16
VT2598-0204	G1/8	OD6 (6/4)	13	12	5,5	35,3	13	18,3	11	13,1	14,2	15	4,5	21
VT2598-0206	G1/8	OD8 (8/6)	13	15	5,5	41	16,7	21	12	16,4	15,2	17	5,5	37
VT2598-0402	G1/4	OD4 (4/2)	17	10	7,5	34	11,5	16,7	8,5	11,1	18,5	13	3	23
VT2598-0404	G1/4	OD6 (6/4)	17	12	7,5	36,2	12	18,3	11	13,1	18,5	15	4,5	27
VT2598-0406	G1/4	OD8 (8/6)	17	15	7,5	41,8	14,7	21	14	16,4	18,5	17	6,5	38
VT2598-0408	G1/4	OD10 (10/8)	17	17	7,5	48	18,8	23,6	16	18,5	18,5	18	8,5	52
VT2598-0604	G3/8	OD6 (6/4)	20	12	7,5	36,3	12	18,3	11	13,1	21,8	15	4,5	35
VT2598-0606	G3/8	OD8 (8/6)	20	15	7,5	40,3	13,2	21	14	16,4	21,8	17	6,5	45
VT2598-0608	G3/8	OD10 (10/8)	20	17	7,5	45	15,8	23,6	16	18,5	21,8	18	8,5	54
VT2598-0804	G1/2	OD6 (6/4)	24	12	9,5	39,7	13,5	18,3	11	13,1	26,2	15	4,5	55
VT2598-0806	G1/2	OD 8 (8/6)	24	15	9,5	43,8	14,7	21	14	16,4	26,2	17	6,5	65
VT2598-0808	G1/2	OD10 (10/8)	24	17	9,5	48	16,3	23,6	16	18,5	26,2	18	8,5	75

Elbow connector

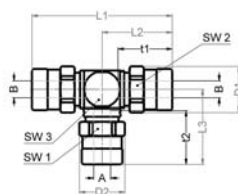
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar



Part no.	for hose A	for hose B	SW1	SW2	SW3	L1	L2	L3	L4	D1	D2	t1	t2	NW	g/piece
VT2577-0200	OD4 (4/2)	OD4 (4/2)	10	10	9	22,5	22	18	17	11	11	13	13	2,5	16
VT2577-0400	OD6 (6/4)	OD6 (6/4)	12	12	11	27	25	21	20	13,1	13,1	15	15	4,5	25
VT2577-0600	OD8 (8/6)	OD8 (8/6)	15	15	14	33	30	26	23	16,4	16,4	17	17	6,5	41
VT2577-0800	OD10 (10/8)	OD10 (10/8)	17	17	16	36	33,1	28	25,1	18,5	18,5	18,5	18,5	8,5	59
VT2577-0900	OD12 (12/9)	OD12 (12/9)	22	22	21	39,5	43,5	29	33	23,5	23,5	20	20	9,5	131
VT2577-1100	OD14 (14/11)	OD14 (14/11)	24	24	22	43,1	45,7	31,5	34,7	25,5	25,5	21,7	21,7	11,5	150

T connector

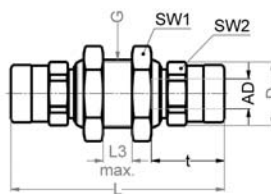
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar



Part no.	for hose A	for hose B	SW1	SW2	SW3	L1	L2	L3	L4	D1	D2	t1	t2	NW	g/piece
VT2578-0200	OD4 (4/2)	OD4 (4/2)	9	9	10	34	17	22,5	18	11	11	13	13	2,5	22
VT2578-0400	OD6 (6/4)	OD6 (6/4)	11	11	12	40	20	27	21	13,1	13,1	15	15	4,5	25
VT2578-0600	OD8 (8/6)	OD8 (8/6)	14	14	15	46	23	33	26	16,4	16,4	17	17	6,5	45
VT2578-0800	OD10 (10/8)	OD10 (10/8)	16	16	17	50,2	25,1	36	28	18,5	18,5	18,5	18,5	8,5	59
VT2578-0900	OD12 (12/9)	OD12 (12/9)	21	21	22	58	29	43,5	33	23,5	23,5	20	20	9,5	131
VT2578-1100	OD14 (14/11)	OD14 (14/11)	22	22	24	63	31,5	45,7	34,7	25,5	25,5	21,7	21,7	11,5	150

Bulkhead connector

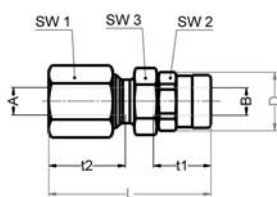
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar



Part no.	G	for hose	SW1	SW2	L	L3	D	t	NW	g/piece
VT2580-0202	14x1	OD4 (4/2)	14	10	37,2	4	11	12,8	3	26
VT2580-0404	14x1	OD6 (6/4)	17	12	44,2	6	13,1	15,1	4,5	43
VT2580-0606	16x1	OD8 (8/6)	19	15	48	6	16,4	17	6,5	58
VT2580-0808	18x1	OD10 (10/8)	22	17	51,6	7	18,5	18,5	8,5	78
VT2580-0909	24x1	OD12 (12/9)	30	22	57	9	23,5	20	9,5	164
VT2580-1111	25x1	OD8 (8/6)	30	24	59,4	9	22,5	21,7	11,5	171

2500

Double screw-joint, adapter for pipe/ hose

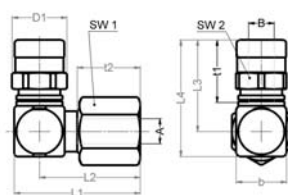


- Combination between cutting ring screw joint and plug connector
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

Part no.	for hose A	for pipe B	SW1	SW2	SW3	L	D	t1	t2	NW	g/piece
VT2547-0604	OD6 (6/4)	6	14	10	12	39	13,2	15	17	4,5	32
VT2547-0606	OD8 (8/6)	6	14	15	14	40,5	16,4	17	17	4,5	38
VT2547-0608	OD10 (10/8)	6	14	17	17	41	18,5	18,5	17	4,5	43
VT2547-0804	OD6 (6/4)	8	17	10	12	39	13,2	15	17	4,5	41
VT2547-0806	OD8 (8/6)	8	17	15	14	41	16,4	17	17	6,5	50
VT2547-0808	OD10 (10/8)	8	17	17	17	42	18,5	18,5	17	6,5	52
VT2547-1006	OD8 (8/6)	10	19	15	14	43	16,4	17	18	6,5	59
VT2547-1008	OD10 (10/8)	10	19	17	17	43	18,5	18,5	18	8,5	60

2500

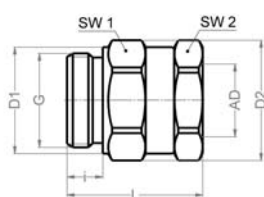
Elbow screw-joint, adapter for pipe/ hose



- Combination between cutting ring screw joint and plug connector
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

Part no.	for hose A	for pipe B	SW1	SW2	L1	L2	L3	L4	b	D1	t1	t2	NW	g/piece
VT2546-0604	OD6 (6/4)	6	14	12	30	24	21,8	27,8	12	13,2	15	15	4,5	39
VT2546-0606	OD8 (8/6)	6	14	15	32	25	26	33	14	16,4	17	15	4,5	52
VT2546-0608	OD10 (10/8)	6	17	17	34	26	28	36	16	18,5	18,5	15	4,5	63
VT2546-0804	OD6 (6/4)	8	17	12	33	26	22,8	29,8	14	13,2	15	16	4,5	54
VT2546-0806	OD8 (8/6)	8	17	15	33	26	26	33	14	16,4	17	16	6,5	59
VT2546-0808	OD10 (10/8)	8	17	17	53	27	28	36	16	18,5	18,5	16	6,5	70
VT2546-1006	OD8 (8/6)	10	19	15	36	28	27	35	16	16,4	17	16	6,5	76
VT2546-1008	OD10 (10/8)	10	19	17	36	28	28	36	16	18,5	18,5	16	8,5	78

Push-through screw joint with clamping ring

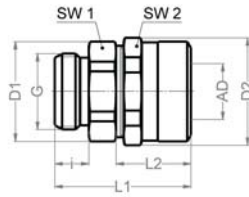


- Whitworth pipe thread DIN ISO 228
- Hold mechanism: clamping ring
- **Material:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar

Part no.	G	for hose	SW1	SW2	i	L	D1	D2	NW	g/piece
SA1547-1019	G3/4	OD19	30	30	10	38	29,8	33,7	19	124
SA1547-1020	G3/4	OD20	30	30	10	38	29,8	33,7	20	115
SA1547-1022	G3/4	OD22	30	30	10	38	29,8	33,7	22	89

Push-through screw joint with collet

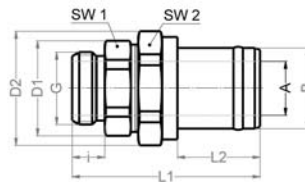
- Whitworth pipe thread DIN ISO 228
- Hold mechanism: collet
- **Material:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar



Part no.	G	for hose	SW1	SW2	i	L1	L2	D1	D2	NW	g/piece
SA1617-0608	G3/8	OD10	20	17	7,5	29	15,5	21,8	18,5	10	37
SA1617-0609	G3/8	OD12	20	22	7,5	30	16,5	21,8	23,5	12	48
SA1617-0811	G1/2	OD14	24	24	9,5	33,2	17,7	26,2	25,5	14	68

Push-through screw joint with collet and protective hose connection

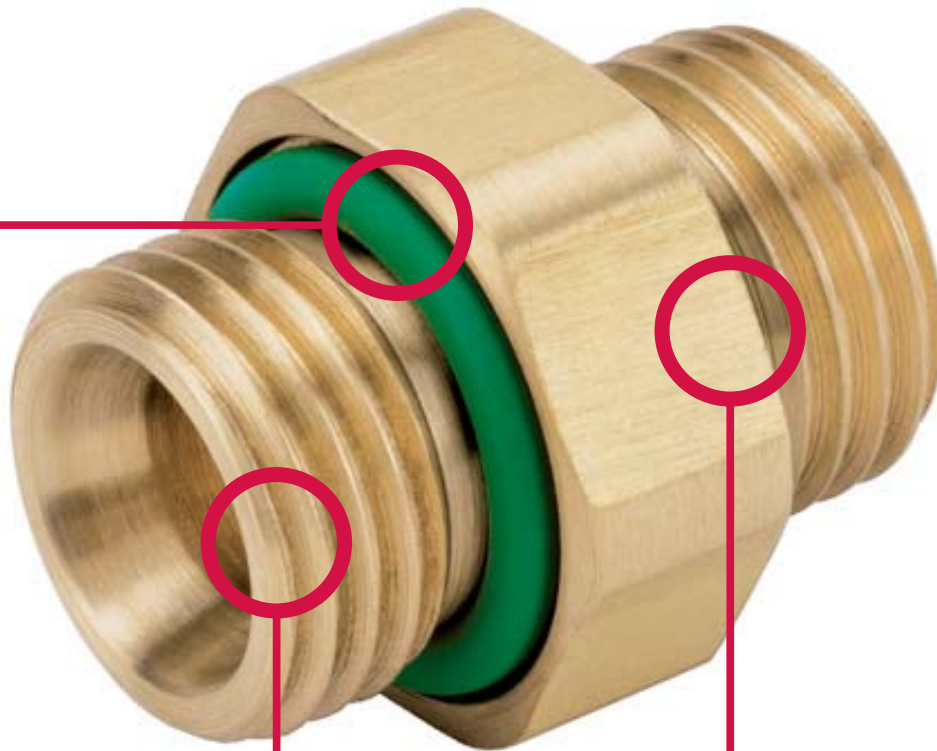
- Whitworth pipe thread DIN ISO 228
- Hold mechanism: collet or clamping ring
- Protective hose connection possible
- **Material:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar



Part no.	G	for hose A	for hose B	SW1	SW2	i	L1	L2	D1	D2	NW	g/piece
SA1616-0608	G3/8	OD10	ID18,5	20	24	7,5	40,5	19	21,8	26,2	10	55
SA1616-0609	G3/8	OD12	ID18,5	20	24	7,5	42,5	19	21,8	26,2	12	60
SA1616-0811	G1/2	OD14	ID18,5	24	24	9,5	45,2	19	26,2	26,2	14	64
SA1616-1019	G3/4	OD19	ID26	30	30	10	59	20	33,7	33,7	19	151
SA1616-1020	G3/4	OD20	ID26	30	30	10	59	20	33,7	33,7	20	140
SA1616-1022	G3/4	OD22	ID26	30	30	10	59	20	33,7	33,7	22	125
SA1616-1224	G1	OD24	ID30	36	36	12	66	25	39,7	39,7	24	204

2500

Series 2300 - Accessories for the EISELE LIQUIDLINE

**All metal
body**

- dezincification-resistant brass, suitable for almost all applications with water
- 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**

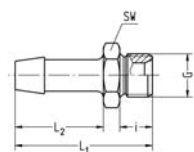
- cylindric thread as a standard
- all types of threads are possible
- customized connection solutions on request

The ideal supplement for the EISELE LIQUIDLINE connections.

ACC

EISELE LIQUIDLINE

Screw-in hose spigot

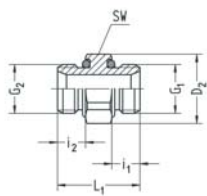


- Whitworth pipe thread DIN ISO 228
- With inner cone according to DIN EN 560
- Hose connection removable
- **Material with media contact:** Brass, dezincification resistant
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar
- Matching hose clamps Type 10 and 11

Part no.	G	for hose inside Ø	SW	i	L1	L2	NW	g/piece
2344-0204	G1/8	4	14	8	34	21	3,5	12
2344-0206	G1/8	6	14	8	34	21	4,5	12
2344-0209	G1/8	9	14	8	34	21	4,5	17
2344-0404	G1/4	4	17	10	42	27	3,5	21
2344-0406	G1/4	6	17	10	42	27	4,5	21
2344-0408	G1/4	8	17	10	42	27	6,5	23
2344-0409	G1/4	9	17	10	42	27	7,5	21
2344-0411	G1/4	11	17	10	42	27	7,5	34
2344-0413	G1/4	13	17	10	42	27	7,5	31
2344-0604	G3/8	4	19	10	43	27	3,5	31
2344-0606	G3/8	6	19	10	43	27	4,5	29
2344-0608	G3/8	8	19	10	43	27	6,5	32
2344-0609	G3/8	9	19	10	43	27	7,5	29
2344-0611	G3/8	11	19	10	43	27	10	33
2344-0613	G3/8	13	19	10	43	27	10	37
2344-0806	G1/2	6	24	12	45	27	4,5	50
2344-0808	G1/2	8	24	12	45	27	6,5	53
2344-0809	G1/2	9	24	12	45	27	7,5	50
2344-0811	G1/2	11	24	12	45	27	10	54
2344-0813	G1/2	13	24	12	45	27	11	52
2344-0814	G1/2	14	24	12	58	36	11,5	76
2344-0818	G1/2	18	24	12	58	36	13,5	90
2344-0819	G1/2	19	24	12	58	36	14,5	85
2344-1013	G3/4	13	32	16	60	36	10,5	117
2344-1019	G3/4	19	32	16	60	36	16	113
2344-1222	G1	22	41	16	62	36	20	187
2344-5002	M5	2	8	4,5	16	8	2	2
2344-5003	M5	3	8	4,5	18	10	2,2	2

ACC

Double nipple

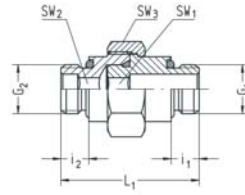


- Whitworth pipe thread DIN ISO 228
- Chambered O-ring
- With inner cone according to DIN EN 560
- Seals FPM
- **Material:** Brass, dezincification resistant
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 24 bar

Part no.	G1	G2	SW	D2	i1	i2	L1	NW	g/piece
VT2342-0202	G1/8	G1/8	13	14,2	5,5	5,5	17	5	9
VT2342-0404	G1/4	G1/4	17	18,5	7,5	7,5	22	7,5	17
VT2342-0606	G3/8	G3/8	20	21,8	7,5	7,5	22,5	10	26
VT2342-0808	G1/2	G1/2	24	26,2	9,5	9,5	27,5	12,5	48
VT2342-1010	G3/4	G3/4	32	37	10,5	10,5	34	18	99
VT2342-1212	G1	G1	41	47,4	12,5	12,5	40	22	189
VT2343-0402	G1/4	G1/8	17	18,2	7,5	5,5	20	5	16
VT2343-0604	G3/8	G1/4	20	21,8	7,5	7,5	22,5	7,5	23
VT2343-0806	G1/2	G3/8	24	26,2	9,5	7,5	25,5	10	40

Double nipple removable

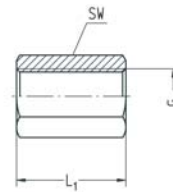
- Whitworth pipe thread DIN ISO 228
- Chambered O-ring
- Constant clearance
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- **Material without media contact:** Brass
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 16 bar



Part no.	G1	G2	SW1	SW2	SW3	i1	i2	L1	NW	M max. (Ncm)	g/piece
VT2376-0202	G1/8	G1/8	5	5	19	5,5	5,5	30	5,1	700	31
VT2376-0404	G1/4	G1/4	6	6	22	7,5	7,5	37	6,1	1500	55
VT2376-0606	G3/8	G3/8	8	8	27	7,5	7,5	39,5	8,2	2200	95
VT2376-0808	G1/2	G1/2	12	12	30	9,5	9,5	46	12,3	4000	117
VT2376-1010	G3/4	G3/4	14	14	41	10,5	10,5	59	14,3	6000	382
VT2376-1212	G1	G1	19	19	50	12,5	12,5	69	19,4	8000	530

Sleeve

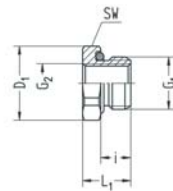
- Whitworth pipe thread DIN ISO 228
- **Material with media contact:** Brass, dezincification resistant
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 24 bar



Part no.	G	SW	L1	g/piece
2359-0100	G1/8	14	18	15
2359-0300	G1/4	17	26	28
2359-0500	G3/8	22	26	47
2359-0700	G1/2	27	30	79

Thread adapter

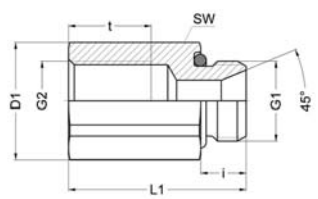
- Whitworth pipe thread DIN ISO 228
- Chambered O-ring
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 24 bar



Part no.	G1	G2	SW	D1	i	L1	g/piece
VT2370-0249	G1/8	M5	13	14,2	5,5	9,5	6
VT2370-0401	G1/4	G1/8	17	18,5	7,5	12	8
VT2370-0449	G1/4	M5	17	18,5	7,5	12	13
VT2370-0601	G3/8	G1/8	20	21,8	7,5	13	19
VT2370-0805	G1/2	G3/8	24	26,2	9,5	15,5	20
VT2370-1005	G3/4	G3/8	32	37	10,5	21	80
VT2370-1007	G3/4	G1/2	32	37	10,5	21	59
VT2370-1207	G1	G1/2	41	47,4	12,5	25	150
VT2370-1209	G1	G3/4	41	47,4	12,5	25	115

ACC

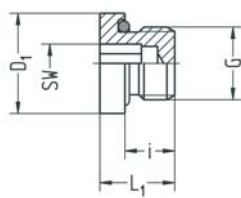
Thread adapter



- Whitworth pipe thread DIN ISO 228
- Chambered O-ring
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 24 bar

Part no.	G1	G2	SW	i	L1	t	D1	NW	g/piece
VT2366-0201	G1/8	G1/8	13	5,5	21,5	10	14,2	5	14
VT2366-0605	G3/8	G3/8	20	7,5	27,5	12	21,8	10	37
VT2366-0807	G1/2	G1/2	24	9,5	32,5	14	26,2	12,5	60
VT2366-5049	M5	M5	8	4	12,5	4,5	-	2,2	3

Closure screw



- Whitworth pipe thread DIN ISO 228
- Chambered O-ring
- With hexagon socket
- Seals FPM
- **Material with media contact:** Brass, dezincification resistant
- Temperature range -20 to +120 °C
- Working pressure range -0.95 to 24 bar

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Part no.	G	SW	i	L1	D1	g/piece
VT2323-0200	G1/8	5	5,5	9	13,9	6
VT2323-0400	G1/4	6	7,5	12	17,9	13
VT2323-0600	G3/8	8	7,5	12	21,9	20
VT2323-0800	G1/2	10	9,5	14	24,9	32
VT2323-1000	G3/4	12	10,5	16,5	31,9	70
VT2323-1200	G1	17	12,5	19	39,8	117

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

Customised connection solutions



You will find more information about the pipe/ hose adapter screw-joints on page and 38

CLIENT

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

Customised connection solutions

Screw-in connector

as a reduction for a smaller thread



Screw-in connector

as an extension



Screw-in connector

with special thread sealing



screw-in spigot

for fabric lining hose with special thread



Double nipple removable

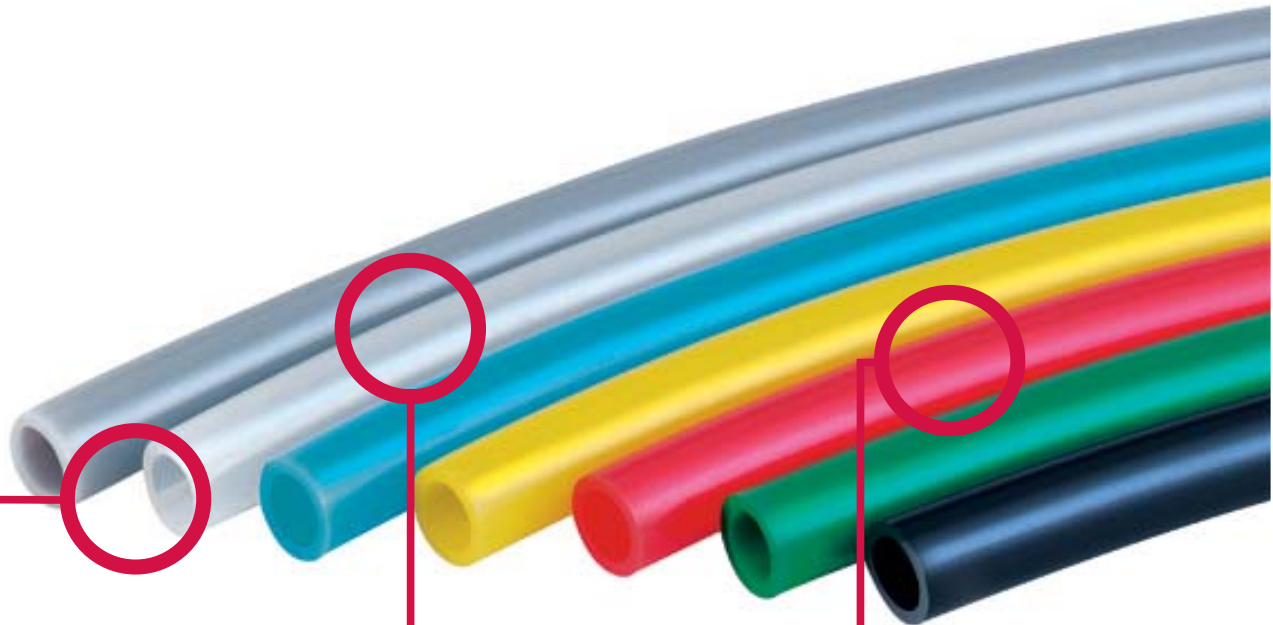
with a maximum flow



CLIENT

EISELE LIQUIDLINE

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

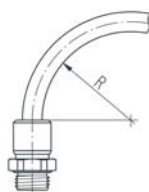
- Hoses can be delivered in many common colors, e.g. to indicate different fluids
- Labeling of hoses for coding possible too

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.

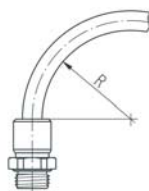
Eisele ProWeld hose



- 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	-	-

Compressed-air hose PTFE

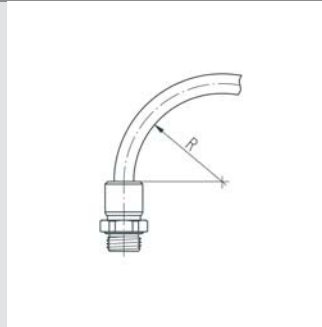


- Made of polytetrafluoroethylene (PTFE, Teflon)
- Color natural
- External calibration; for use with Eisele plug connectors
- Temperature range -190 to +260 °C
- Operating pressure = burst pressure: safety (common factor 2 to 3)
- Free of plasticizers, PWIS, copper and PTFE
- Resistant to UV and solvents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

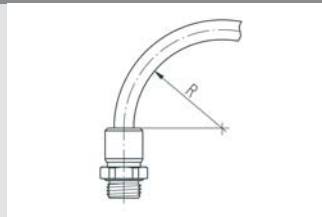
- Made of fluorinated ethylene-propylene copolymer (FEP)
- Color crystal clear
- External calibration; for use with Eisele plug connectors
- Temperature range -35 to +120 °C
- Operating pressure = burst pressure: Safety (common factor 2 to 3)
- Very flexible
- Free of plasticizer, copper and PTFE
- Flame-retardant 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

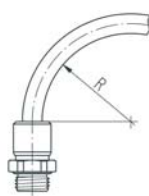
Compressed-air hose PE

- 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

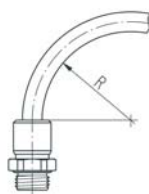
Plastic hose PU-H



- 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

Hose cutter



- 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

Hose cutter

- For compressed-air hoses with outer- $\varnothing$ 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

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§ 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 INOXLIN

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

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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.

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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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Stainless steel connection
solutions

EISELE **LIQUIDLINE**
Connections for cooling water

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media connections