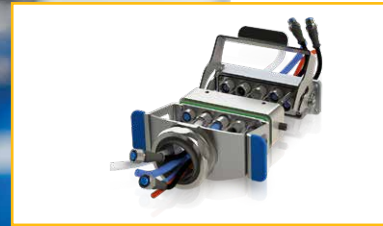


MULTILINE ADAPTIVE + E PROGRAM

Individually compiled coupling in premium quality



MULTILINE CONFIGURATOR
CREATE YOUR OWN MULTILINE ON
KONFIGURATOR.EISELE.EU







EISELE IS QUALITY MADE IN GERMANY

Over 30 patents, more than 8,000 standard articles, and 2,000 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.

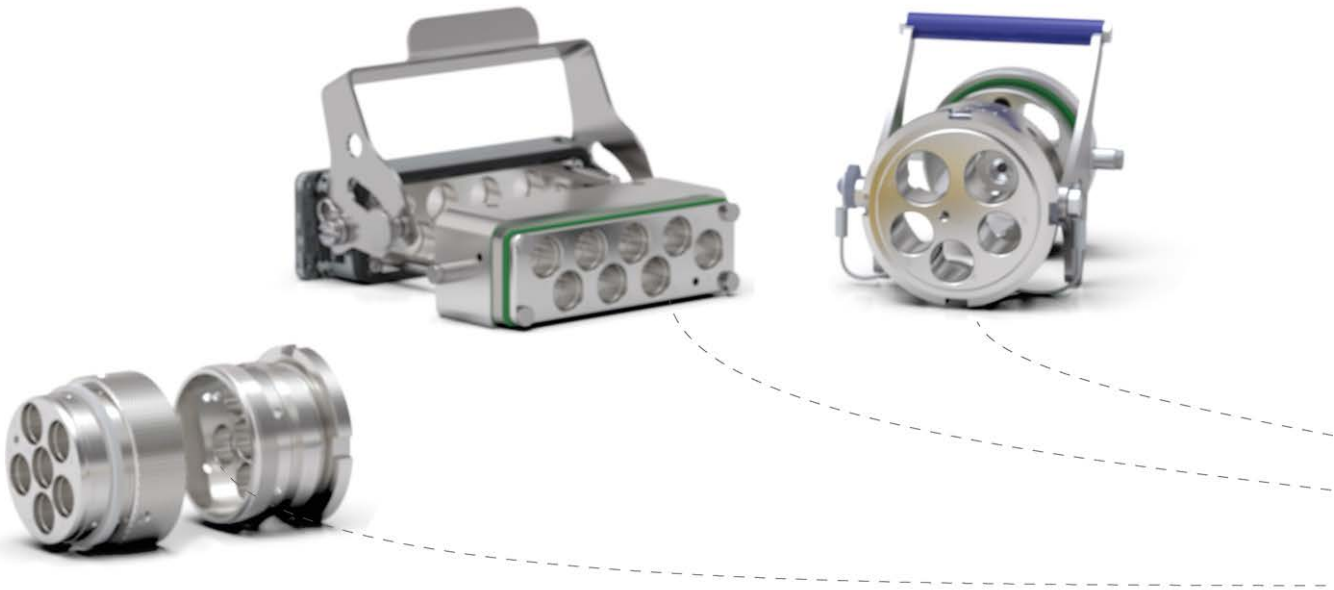
Our company is loyal to its philosophy and its roots. Germany is the place where we find our highly qualified employees – the workforce responsible for our company's output. With a manufacturing depth of almost 100%, and stock being kept at the production site itself, we can optimally supply our customers, 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: 2015 – 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. Since 2014 Eisele is certified regarding the international economic standard DIN EN ISO 14001:2015.



EISELE MULTILINE ADAPTIVE + E

The **modular connection solution**
for all connections

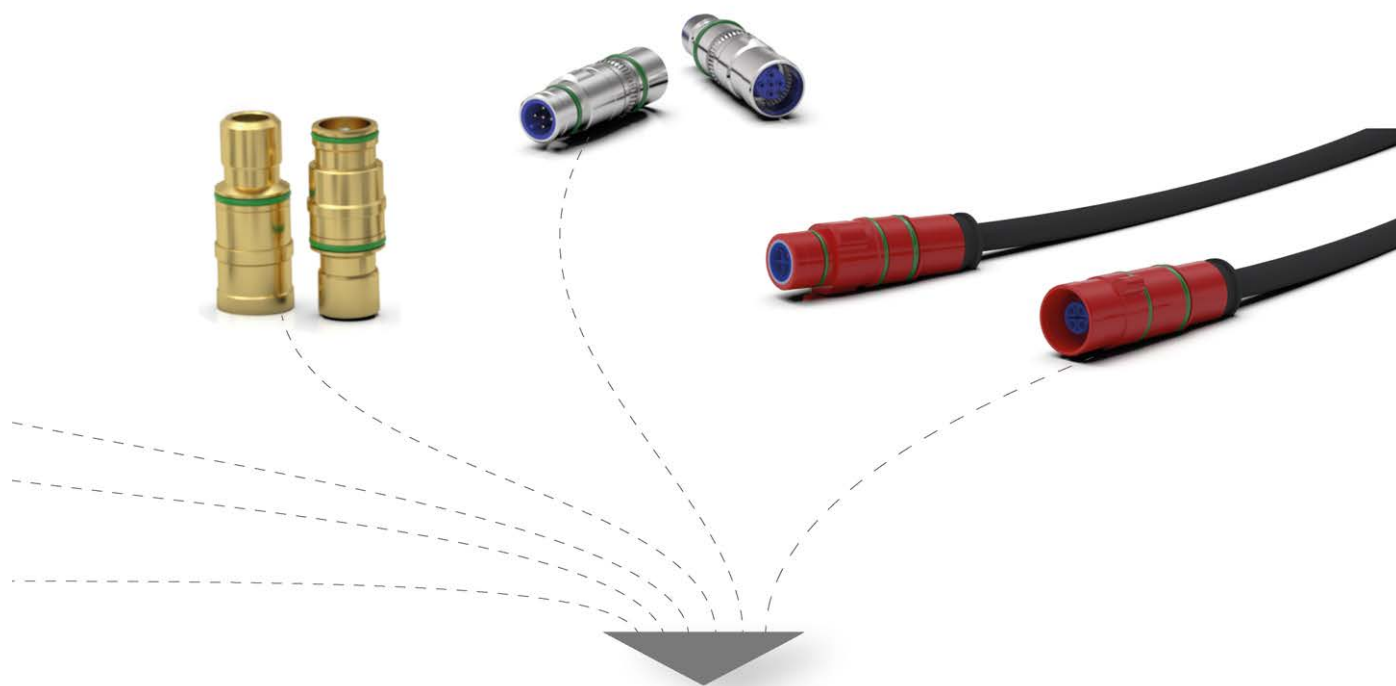


Our individually configurable connection system **MULTILINE ADAPTIV + E** provides everything you need in a connection: premium quality materials, easy assembly, a highly reliable connection and no leaks.

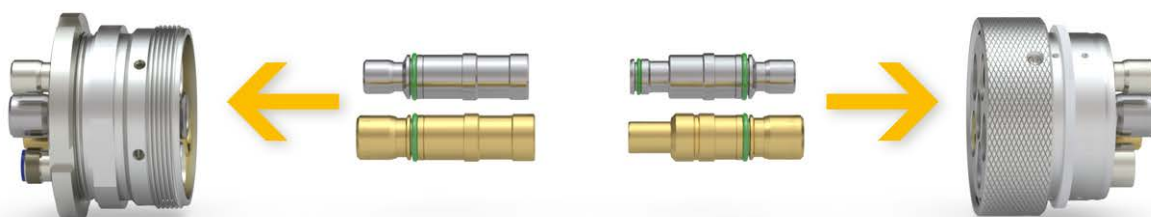
A completely modular kit system with adaptive inserts ensures that exactly the connections required for a particular application can be combined in one multiple connector. All single components are mutually compatible. These features make our **MULTILINE ADAPTIV + E** unique:

- +** Innovative **modular kit system as solution for industry 4.0:**
One interface to combine compressed air, gases, liquids, electrical wiring and electronic signals
- +** The **completely tool-free assembly with one click** guarantees **easy handling**
- +** **Easy tool change** during machine changeover
- +** No soldering and crimping thanks to the **M12 connector**
- +** Safe handling as there is **no danger of confusion**
- +** **Cost savings** due to optimization of setup and maintenance costs
- +** **AREAS OF APPLICATION:** food production – medical technology - robotics – pharmaceutical industry - industrial automation

 **PREMIUM QUALITY**
MADE IN GERMANY



All media **with one click**



MULTILINE CONFIGURATOR

With our **MULTILINE CONFIGURATOR** you can easily create your own individual **MULTILINE** for your application.

Visit us at konfigurator.eisele.eu



Client Applications

Systems for direct room air humidification



Handling, durability and hygiene are important criteria in direct room systems for room air humidification. Together with Eisele, **Condair Systems GmbH** has developed an individual multiple connector for the simple, error-free and quick exchange of air humidification containers during maintenance.

Image source: Condair Systems GmbH

Client Applications

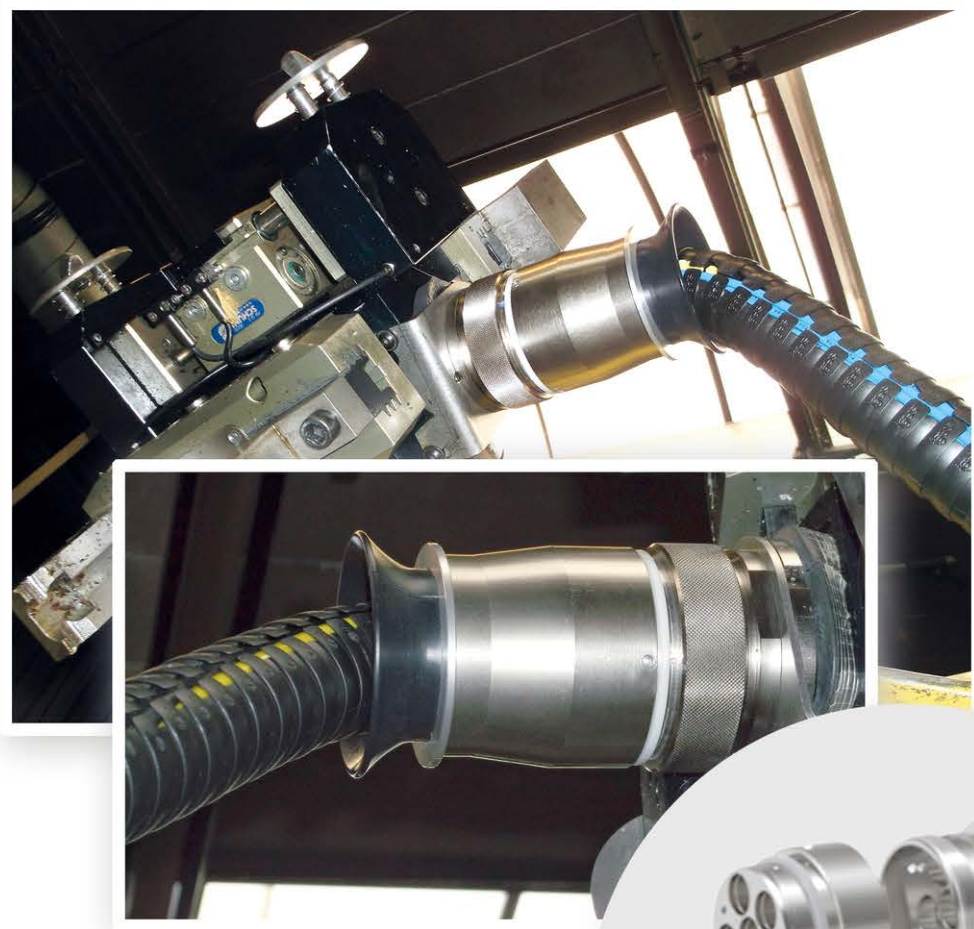
Painting plants for laboratory



Painting applications require robust connections that are not susceptible to contamination and are easy to use. The company **Oerter GmbH & Co. KG** was looking for a multiple connector which, for reasons of corrosion protection, is made completely of stainless steel, simultaneously connects lines for compressed air as well as for paints and solvents and contains solvent-resistant seals made of FFKM. The adaptive inserts met all the requirements for the automatic painting machines.

Image source: Oerter GmbH & Co. KG

Drive systems for agricultural technology



The production of three-point tractor mounts for implements and machines without separate axles is one of the core competences of **Walterscheid GmbH**. Eight-axis robots, whose grippers have to execute extreme angular movements during the process, carry out removal of the hooks in the fully automated line. In the past, this caused twisted and defective supply cables and tubes. For an optimal connection between the robot and the gripper head, the decision-makers at **Walterscheid** finally chose the multiple connectors from Eisele.

Image source: Walterscheid GmbH

Client Applications

Systems for automated surface treatment



SHL AG designs and implements innovative workpiece-guided systems, among other things. These work with a feed system that feeds the workpieces into the work area by a six-axis industrial robot. With the aid of a gripper system, the robot grips the workpiece and guides it through the processing stations until the grinding, polishing and/or deburring process is completed. In the search for an optimum connection at the interface between pneumatics and electrics, the responsible persons at **SHL AG** came across Eisele.

Image source: SHL AG

Note

Please note for the use of dezincification resistant brass:

Stress corrosion:

- With chloride or ammonia filled water the use of brass is not recommended.

Electrical corrosion:

Please assure that the system does not contain large potential differences if you use brass connectors. Large potential differences will create a galvanic cell. The use of brass is in these cases not recommended.

As a supplier of high-quality connection solutions we offer specially tailored connections and tubes to your specific application.

The user is responsible for the right selection of the material.

Content overview

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A+E

Individually compiled coupling

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EISELE **MULTILINE****Accessories**

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ACC

Ideal supplement to the MULTILINE

**Plastic tubes**

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PE, PA, PU, PU-H, ProWeld, PTFE, FEP, PFA, PVDF

Technical information

65

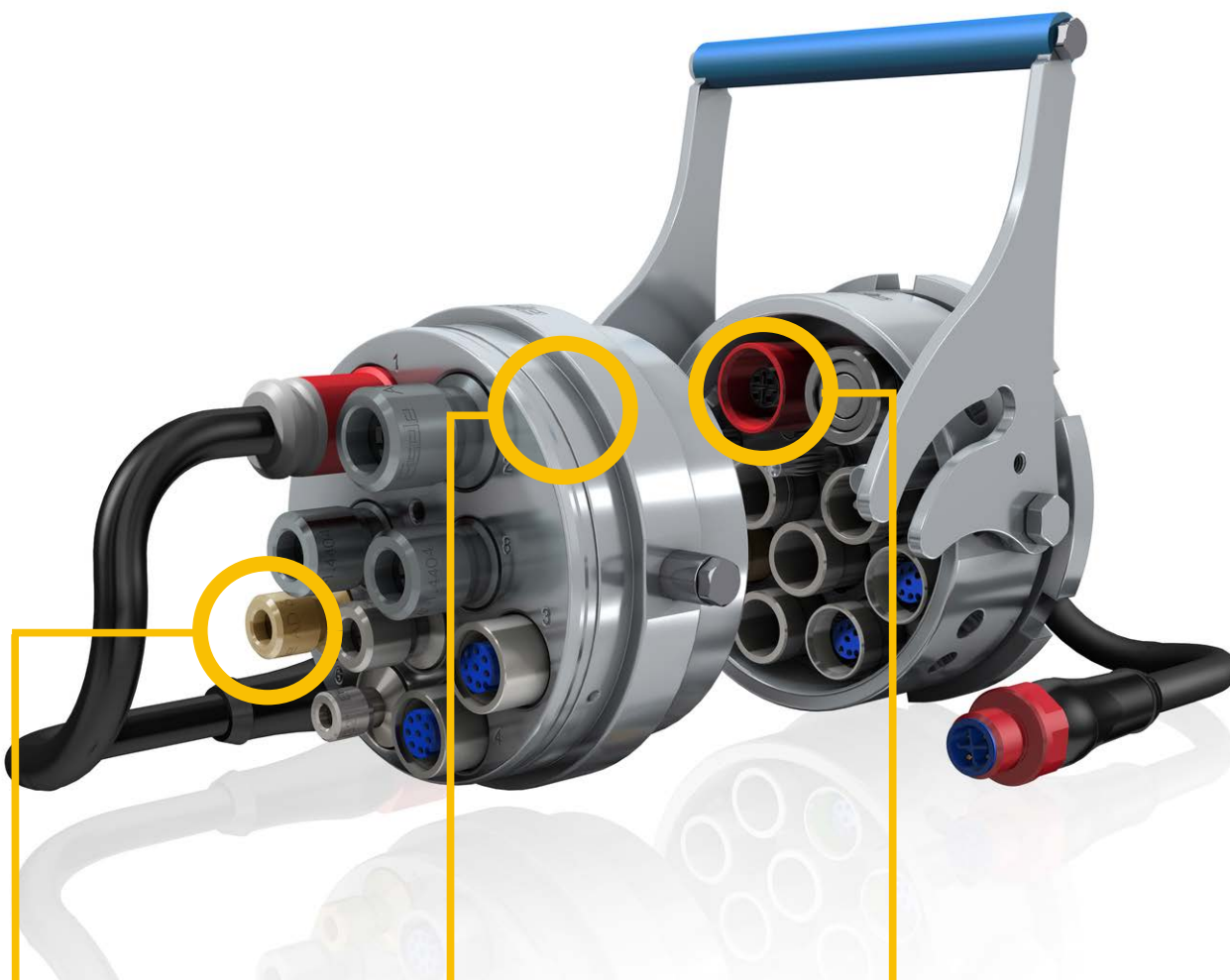
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EISELE **MULTILINE**

MULTILINE Adaptive + E

A+E



Diversity of variants

- Individually configurable connection
- With or without shut-off, optionally also drip-free
- Different materials and tube sizes can be combined
- Various media can be combined with electrical & electronic signals

High-quality craftsmanship

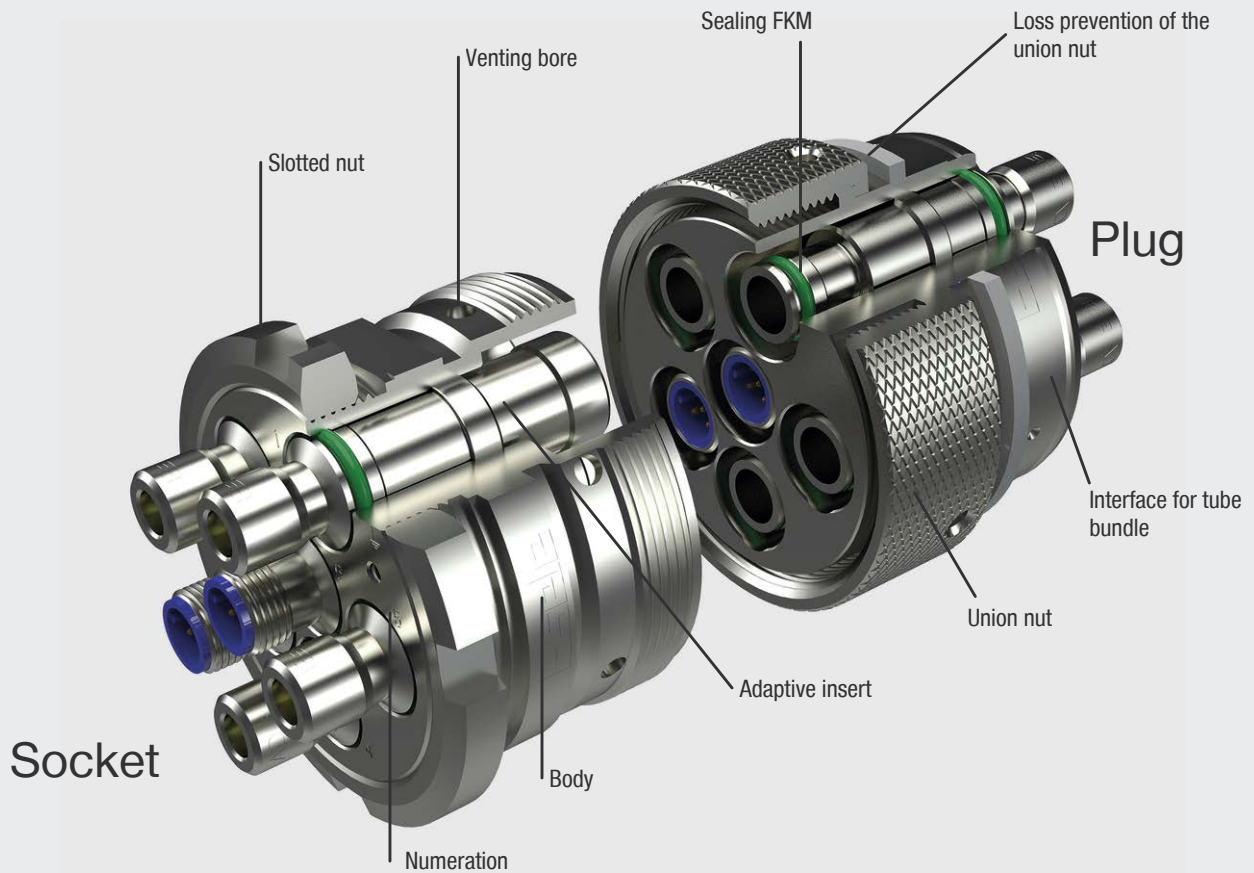
- Solid metal housing
- Bulkhead stuffing box
- Exclusive design
- With patented release sleeve to protect the system against penetration by dirt

Time and space saving

- Compact construction
- Patented modular plug-type fittings
- Hole pattern prevents incorrect connections
- Fast and easy handling

Accessories such as protective caps, tube bundles, mounting brackets and colour-coded sleeves are available in the accessories section.

Functional principle



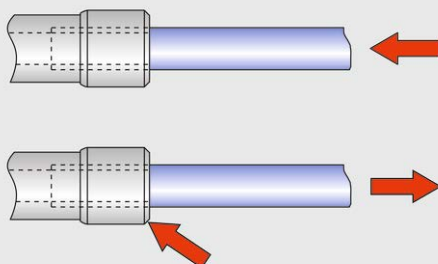
Range of application

- Tool changing
- Module changing
- Chemical equipment engineering
- Mechanical engineering
- Plant engineering
- Robots
- ...

Service conditions

- Temperature range: -4 up to 248 °F (-20 up to +120 °C)
- Working pressure -11.5 up to 348 psi (-0.8 up to 24 bar)
- Individual combination of connections
- Can be combined with M12 connectors for electrical and electronic signals
- For compressed air, gases, vacuum, coolant and liquids
- Dirt-resistant design
- Very fast and easy assembly without tools
- Flow-optimised

Handling



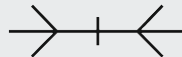
Assembly: Push tube into the connector up to the limit stop

Disassembly: Press release ring, pull out tube

Functional description of adaptive inserts

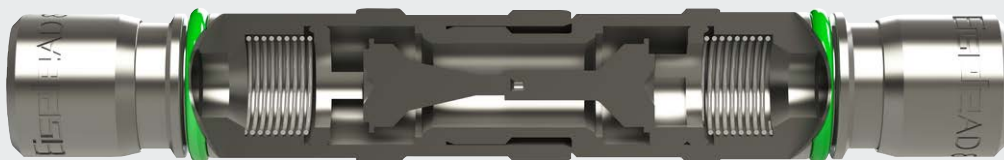
VT1821 without shut-off

Adaptive inserts **without shut-off** for non-pressurised connection and disconnection of a system. This construction ensures full flow without pressure loss.



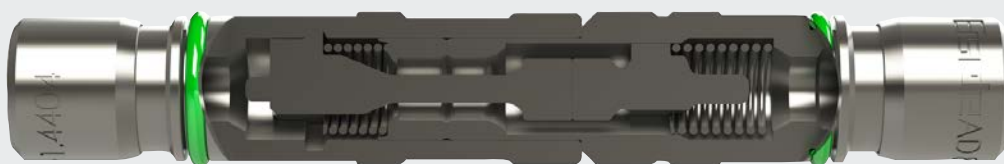
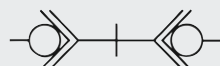
VT1820 with two-sided shut-off

Adaptive inserts with **two-sided shut-off** for connecting and disconnecting a system under pressure. In this construction the valves close during disconnection to prevent loss of pressurised medium. When connected the valves open mutually.



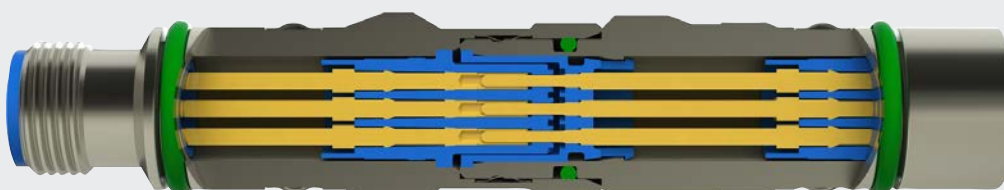
VT1825 drip-free

Drip-free adaptive inserts for connection and disconnection of a system with minimal leakage. The function is the same as the version with two-sided shut-off. The special construction of the valves and the special flat seal mechanism minimise leakage when connecting and disconnecting the fittings.

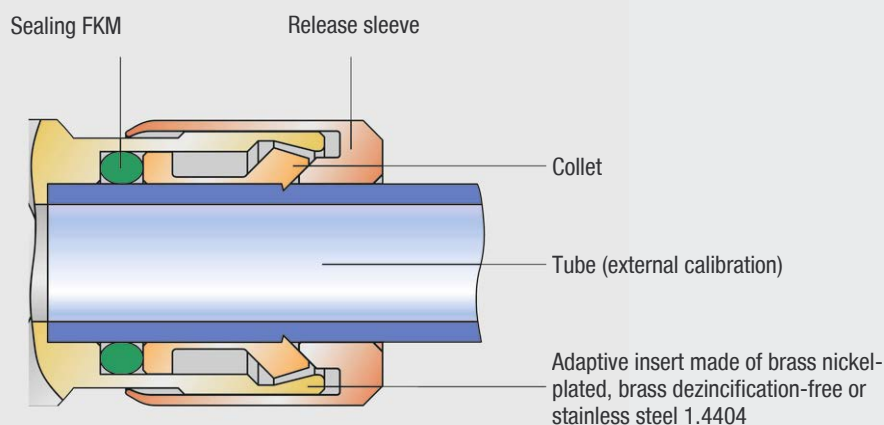


1830 and 1831 Electrics / Electronics

Electrics / Electronics adaptive inserts for signal and power transmission. Due to the connection with standardized M12 round connectors, tool-free mounting is possible. In series 1830 the connection of the M12 round connector is directly located on the base body but in series 1831 it is extended by a cable.



Functional description: 1 seal

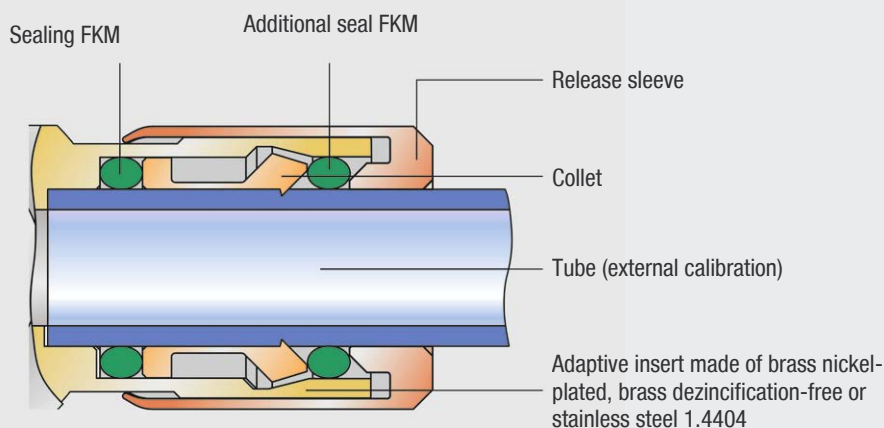


The inserted tube is held securely in the housing by an inner collet. An outer release sleeve protects the connection from impurities and enables easy disconnection of the tube without tools, even after extended use. Installation and operation are intuitive and safe.

Applications:

- In standard pressure range (-0.8 to 16 bar)
- For all standard pneumatic applications
- Other applications on request

Functional description: 2 seals




The inserted tube is held securely in the housing by an inner collet. An outer release sleeve protects the connection from impurities and enables easy disconnection of the tube without tools, even after extended use. A 2-seal system allows use of this connecting technology in areas with increased requirements. Such applications include environments in the vicinity of electrical contacts or measuring systems.

Applications:

- For applications with increased pressures (-0.85 up to 24 bar)
- For very tight bending radii
- For all standard applications with compressed air and fluids (as long as the material of the adaptive insert is sufficiently resistant)
- Other applications on request

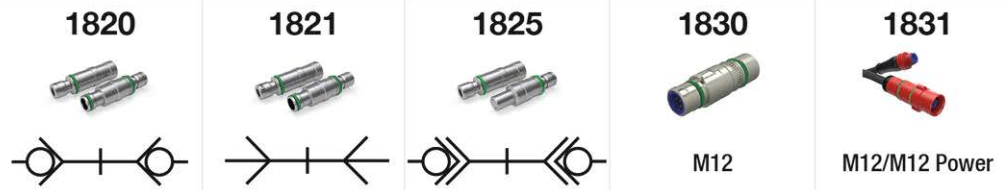
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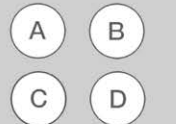
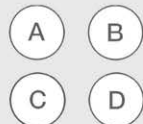


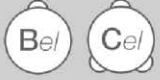
A+E

Functional principle



Function		1820	1821	1825	1830	1831
Shut-off	without		●			
	both sides	●				
Drip free				●		
Electrics/ electronics	signal/data				●	●
	coding				A B D	A
	power					●
coding						L S

Bore types

Sizes	1820	1821	1825	1830	1831
					

Media

Compressed air	●	●			
Vacuum	on request	●			
Fluids			●		
Electric power				●	●

Materials

Brass	nickel-plated	●	●		●	●
	dezincification-resistant	●	●	●		
Stainless steel	1.4404 (AISI 316L)	●	●	●		
Plastic	POM					●

Hose seal

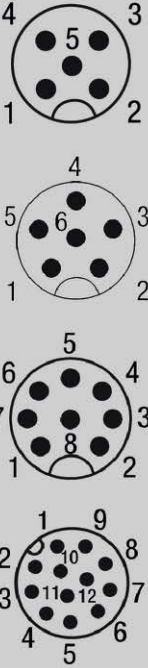
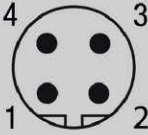
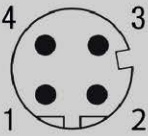

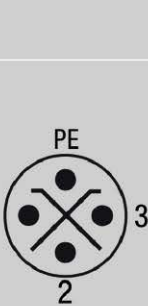
Single	●	●	●		
	0 to 16 bar (0 to 232 psi) <small>(on request: -0,8 to 16 bar (-11,5 to 232 psi))</small>	-0,8 to 16 bar (-11,5 to 232 psi)	0 to 16 bar (0 to 232 psi)		
Double	●	●	●		
	0 to 24 bar (0 to 348 psi) <small>(on request: -0,8 to 24 bar (-11,5 to 348 psi))</small>	-0,8 to 24 bar (-11,5 to 348 psi)	0 to 24 bar (0 to 348 psi)		

Tube sizes

OD4 to 14

OD4 to 10

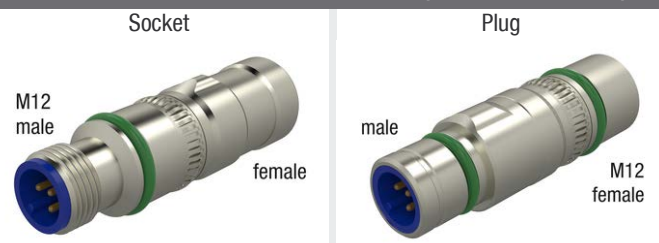
Codings

	Coding	Number of poles	Operating voltage	Operating current per contact	Application
A-coded		<ul style="list-style-type: none"> • 5-pole • 6-pole • 8-pole • 12-pole 	<ul style="list-style-type: none"> • max. 49V AC/DC • max. 30V AC/DC • max. 30V AC/DC • max. 30V AC/DC 	<ul style="list-style-type: none"> • A • 4A • 2A • 1,5A 	<ul style="list-style-type: none"> • Sensor/actuator applications • Fieldbus applications
B-coded		4-pole	max. 49V AC/DC	4A	Fieldbus applications
D-coded		4-pole	max. 49V DC	4A	Industrial Ethernet applications up to 100Mbit/s
L-coded		5-pole (4 + FE)	max.63V DC	12A	Power transmission for DC applications, e.g.: <ul style="list-style-type: none"> • decentralized field devices (I/O fieldbus module) • DC motors and drives (linear actuators, stepper motors) • power supplies
S-coded		4-pole (3 + PE)	max.600V AC	12A	Power transmission for AC applications, e.g.: <ul style="list-style-type: none"> • AC motors and drives • Frequency converter

A+E

M12 Circular connector | A-coded | 5-,6-,8-pole

NEW



- Material base body: nickel-plated brass
- Seal: FKM
- Compression gland: M12
- Temperature range: -25 to 85 °C (-13 to 185 °F)
- Shielded
- Protection IP65 and IP67 when inserted and tightened (EN 60529)
- For signal transmission

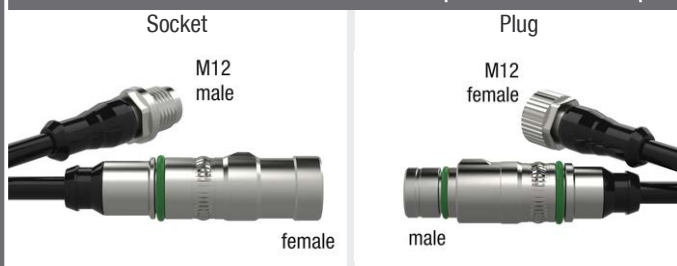
Bore type	Part no.	Design	Operating voltage	Operating current	g/piece		
	1830-A6B050000001	socket	49V AC/DC	max. 4A je Kontakt	38		
	1830-A6B050000002	plug	49V AC/DC	max. 4A je Kontakt	40		

Bore type	Part no.	Design	Operating voltage	Operating current	g/piece		
	1830-A6B060000001	socket	30V AC/DC	max. 4A je Kontakt	38		
	1830-A6B060000002	plug	30V AC/DC	max. 4A je Kontakt	40		

Bore type	Part no.	Design	Operating voltage	Operating current	g/piece		
	1830-A6B080000001	socket	30V AC/DC	max. 2A je Kontakt	38		
	1830-A6B080000002	plug	30V AC/DC	max. 2A je Kontakt	40		

M12 Circular connector | A-coded | 12-pole

NEW

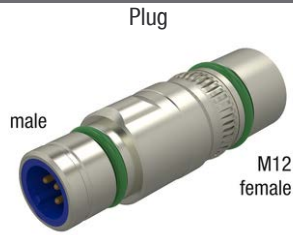
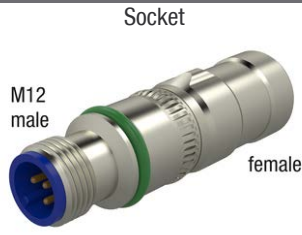


- Material base body: brass nickel-plated
- Material jacket: PVC
- Seal: FKM
- Compression gland: M12
- Temperature range: -5 to 80 °C (23 to 176 °F)
- Protection IP65 and IP67 when inserted and tightened (EN 60529)
- For signal transmission

Bore type	Part no.	Design	Cable lenght in cm	Operatin g voltage	Operating current	g/piece		
	1831-A6B120207031	socket	20	30V AC/DC	max. 1,5A je Kontakt	66		
	1831-A6B120207032	plug	20	30V AC/DC	max. 1,5A je Kontakt	66		

M12 Circular connector | B-coded | 4-pole

NEW

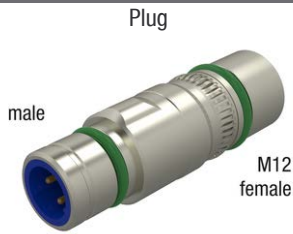


- Material base body: nickel-plated brass
- Seal: FKM
- Compression gland: M12
- Temperature range: -25 to 85 °C (-13 to 185 °F)
- Shielded
- Protection IP65 and IP67 when inserted and tightened (EN 60529)
- For data transmission

Bore type	Part no.	Design	Operating voltage	Operating current	g/piece	Male	Female
	1830-B6B040000001	socket	49V AC/DC	max. 4A je Kontakt	38		
	1830-B6B040000002	plug	49V AC/DC	max. 4A je Kontakt	40		

M12 Circular connector | D-coded | 4-pole

NEW

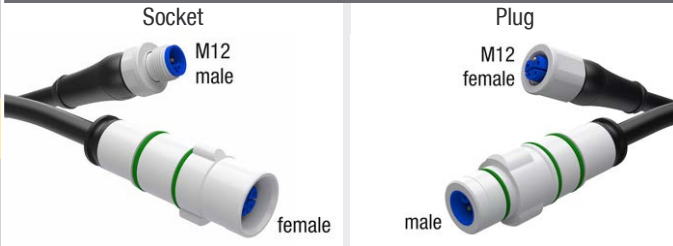


- Material base body: nickel-plated brass
- Seal: FKM
- Compression gland: M12
- Temperature range: -25 to 85 °C (-13 to 185 °F)
- Shielded
- Protection IP65 and IP67 when inserted and tightened (EN 60529)
- For data transmission


Bore type	Part no.	Design	Operating voltage	Operating current	g/piece	Male	Female
	1830-D6B040000001	socket	49V DC	max. 4A je Kontakt	38		
	1830-D6B040000002	plug	49V DC	max. 4A je Kontakt	40		

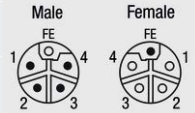
M12 Power plug | L-coded | 5-pole

NEW



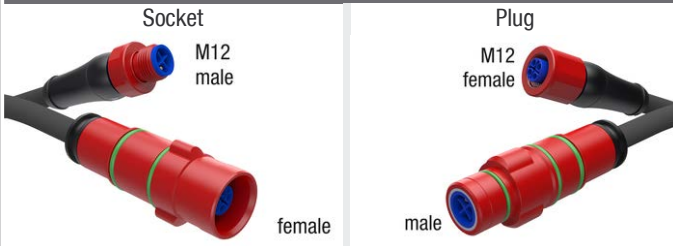
- Material base body: POM
- Material jacket: PUR
- Compression gland: M12
- Temperature range: -25 to 80 °C (-4 to 176 °F)
- Protection IP65 and IP67 when inserted and tightened (EN 60529)
- For power transmission

Bore type	Part no.	Design	Cable length in cm	Operating voltage	Operating current	g/piece
	1831-LKC05025P041	socket	25	63V DC	max. 12A je Kontakt	74
	1831-LKC05025P042	plug	25	63V DC	max. 12A je Kontakt	79




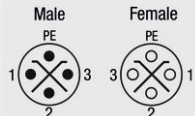
M12 Power plug | S-coded | 4-pole

NEW



- Material base body: POM
- Material jacket: PUR
- Compression gland: M12
- Temperature range: -25 to 80 °C (-4 to 176 °F)
- Protection IP65 and IP67 when inserted and tightened (EN 60529)
- For power transmission

Bore type	Part no.	Design	Cable length in cm	Operating voltage	Operating current	g/piece
	1831-SKC04025P061	socket	25	600V AC	max. 12A je Kontakt	72
	1831-SKC04025P062	plug	25	600V AC	max. 12A je Kontakt	78



Adaptor | M12 to M8 | 3-, 4-pole

NEW



- Material: PUR, Zinc die casting (matt nickel-plated)
- Adaptor: M12 (male) to M8 (female)
- Coding: A-coded
- Temperature range: -25 bis 85 °C (-13 to 185 °F)
- Protection IP65 and IP67 when inserted and tightened (EN 60529)

Part no.	Operating voltage	Operating current	fits to round connector	g/piece					
1839-42201	50V AC/60 V DC	max. 4A je Kontakt	1830-A6B050000002	14	<table border="0"> <tr> <td>Male</td> <td>Female</td> </tr> <tr> <td></td> <td></td> </tr> </table>	Male	Female		
Male	Female								
1839-42211	50V AC/60 V DC	max. 4A je Kontakt	1830-A6B050000002	14	<table border="0"> <tr> <td>Male</td> <td>Female</td> </tr> <tr> <td></td> <td></td> </tr> </table>	Male	Female		
Male	Female								

Adaptor | M8 to M12 | 3-, 4-pole

NEW



- Material: PUR, Zinc die casting (matt nickel-plated)
- Adaptor: M8 (male) to M12 (female)
- Coding: A-coded
- Temperature range: -25 bis 85 °C (-13 to 185 °F)
- Protection IP65 and IP67 when inserted and tightened (EN 60529)

Part no.	Operating voltage	Operating current	fits to round connector	g/piece					
1839-88521	50V AC/60 V DC	max. 4A je Kontakt	1830-A6B050000001	15	<table border="0"> <tr> <td>Male</td> <td>Female</td> </tr> <tr> <td></td> <td></td> </tr> </table>	Male	Female		
Male	Female								
1839-88531	50V AC/60 V DC	max. 4A je Kontakt	1830-A6B050000001	15	<table border="0"> <tr> <td>Male</td> <td>Female</td> </tr> <tr> <td></td> <td></td> </tr> </table>	Male	Female		
Male	Female								

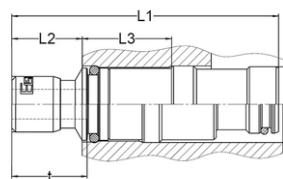
Adaptive insert without shut-off | 1 seal



Socket



Plug



- Material: brass nickel-plated
- Seals: FKM* -20 to 120 °C (-4 to 248 °F)
- Working pressure range: -0,8 to 16 bar (-11,5 to 232 psi)
- Suitable for compressed air, vacuum

*Other sealing materials on request

A+E

Bore type	Part no.	Design	for tube	L1	L2	L3	D1	t	NW	g/piece
A	VT1821-062404021	socket	OD4 (5/32")	52	11,5	18,3	12,4	12,7	3	21
	VT1821-062404022	plug	OD4 (5/32")	52	11,5	12,3	12,4	12,7	3	19
	VT1821-062404041	socket	OD6	54	13,5	18,3	12,4	15,5	4,5	22
	VT1821-062404042	plug	OD6	54	13,5	12,3	12,4	15,5	4,5	21
B	VT1821-062406021	socket	OD4 (5/32")	53	12,5	18,3	15,7	12,7	3	32
	VT1821-062406022	plug	OD4 (5/32")	53	12,5	12,3	15,7	12,7	3	29
	VT1821-062406041	socket	OD6	54	14	18,3	15,7	15,5	4,5	33
	VT1821-062406042	plug	OD6	54	14	12,3	15,7	15,5	4,5	30
	VT1821-062406631	socket	OD6,35 (1/4")	54	14	18,3	15,7	15,5	4,5	33
	VT1821-062406632	plug	OD6,35 (1/4")	54	14	12,3	15,7	15,5	4,5	30
	VT1821-062406061	socket	OD8 (5/16")	57	17	18,3	15,7	18,5	6,5	36
	VT1821-062406062	plug	OD8 (5/16")	57	17	12,3	15,7	18,5	6,5	33
C	VT1821-062408041	socket	OD6	56	15,5	18,3	19,5	15,5	4,5	50
	VT1821-062408042	plug	OD6	56	15,5	12,3	19,5	15,5	4,5	47
	VT1821-062408631	socket	OD6,35 (1/4")	56	15,5	18,3	19,5	15,5	4,5	50
	VT1821-062408632	plug	OD6,35 (1/4")	56	15,5	12,3	19,5	15,5	4,5	48
	VT1821-062408061	socket	OD8 (5/16")	58	17,5	18,3	19,5	18,5	6,5	53
	VT1821-062408062	plug	OD8 (5/16")	58	17,5	12,3	19,5	18,5	6,5	50
	VT1821-062408951	socket	OD9,5 (3/8")	60	19,5	18,3	19,5	21,3	6,5	54
	VT1821-062408952	plug	OD9,5 (3/8")	60	19,5	12,3	19,5	21,3	6,5	52
	VT1821-062408081	socket	OD10	60	19,5	18,3	19,5	21,3	8,5	54
	VT1821-062408082	plug	OD10	60	19,5	12,3	19,5	21,3	8,5	51
D	VT1821-062411061	socket	OD8 (5/16")	60	19,4	18,3	25,7	18,5	6,5	78
	VT1821-062411062	plug	OD8 (5/16")	60	19,4	12,3	25,7	18,5	6,5	75
	VT1821-062411091	socket	OD12	63	23	18,3	25,7	26	9,5	83
	VT1821-062411092	plug	OD12	63	23	12,3	25,7	26	9,5	80
	VT1821-062411111	socket	OD14	66	26	18,3	25,7	28,5	11,5	87
	VT1821-062411112	plug	OD14	66	26	12,3	25,7	28,5	11,5	84

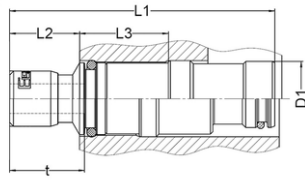
Adaptive insert without shut-off | 2 seals**



Socket



Plug



- Material: brass nickel-plated
- Seals: FKM* -20 to +120 °C (-4 to 248 °F)
- Working pressure range: -0,8 to 24 bar (-11,5 to 348 psi)
- Suitable for compressed air, vacuum

*Other sealing materials on request

A+E

Bore type	Part no.	Design	for tube	L1	L2	L3	D1	t	NW	g/piece
A	VT1821-142404021	socket	OD4 (5/32")	51	11	18,3	12,4	13,8	3	21
	VT1821-142404022	plug	OD4 (5/32")	51	11	12,3	12,4	13,8	3	19
	VT1821-142404041	socket	OD6	55	14,5	18,3	12,4	17,1	4,5	23
	VT1821-142404042	plug	OD6	55	14,5	12,3	12,4	17,1	4,5	21
B	VT1821-142406021	socket	OD4 (5/32")	52	12	18,3	15,7	13,8	3	32
	VT1821-142406022	plug	OD4 (5/32")	52	12	12,3	15,7	13,8	3	29
	VT1821-142406041	socket	OD6	54	13,4	18,3	15,7	17,1	4,5	33
	VT1821-142406042	plug	OD6	54	13,4	12,3	15,7	17,1	4,5	30
	VT1821-142406061	socket	OD8 (5/16")	58	17,6	18,3	15,7	20,3	6,5	37
	VT1821-142406062	plug	OD8 (5/16")	58	17,6	12,3	15,7	20,3	6,5	34
C	VT1821-142408041	socket	OD6	55	15	18,3	19,5	17,1	4,5	49
	VT1821-142408042	plug	OD6	55	15	12,3	19,5	17,1	4,5	44
	VT1821-142408061	socket	OD8 (5/16")	57	17	18,3	19,5	20,3	6,5	52
	VT1821-142408062	plug	OD8 (5/16")	57	17	12,3	19,5	20,3	6,5	50
	VT1821-142408081	socket	OD10	59	19	18,3	19,5	23,4	8,5	54
VT1821-142408082	plug	OD10	59	19	12,3	19,5	23,4	8,5	52	
D	VT1821-142411091	socket	OD12	65	25	18,3	25,7	28,4	9,5	85
	VT1821-142411092	plug	OD12	65	25	12,3	25,7	28,4	9,5	82
	VT1821-142411111	socket	OD14	70	30	18,3	25,7	32,3	11,5	89
	VT1821-142411112	plug	OD14	70	30	12,3	25,7	32,3	11,5	86

** on request

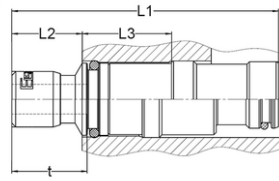
Adaptive insert without shut-off | 1 seal



Socket



Plug



- Material with media contact: brass dezincification-resistant
- Material without media contact: brass
- Seal: FKM* -20 to +120 °C (-4 to 248 °F)
- Working pressure range: -0,8 to 16 bar (-11,5 to 232 psi)
- Suitable for cooling water, fluids

*Other sealing materials on request

A+E

Bore type	Part no.	Design	for tube	L1	L2	L3	D1	t	NW	g/piece
A	VT1821-262404021	socket	OD4 (5/32")	52	11,5	18,3	12,4	12,7	3	21
	VT1821-262404022	plug	OD4 (5/32")	52	11,5	12,3	12,4	12,7	3	19
	VT1821-262404041	socket	OD6	54	13,5	18,3	12,4	15,5	4,5	22
	VT1821-262404042	plug	OD6	54	13,5	12,3	12,4	15,5	4,5	21
B	VT1821-262406021	socket	OD4 (5/32")	53	12,5	18,3	15,7	12,7	3	32
	VT1821-262406022	plug	OD4 (5/32")	53	12,5	12,3	15,7	12,7	3	29
	VT1821-262406041	socket	OD6	54	14	18,3	15,7	15,5	4,5	33
	VT1821-262406042	plug	OD6	54	14	12,3	15,7	15,5	4,5	30
	VT1821-262406631	socket	OD6,35 (1/4")	54	14	18,3	15,7	15,5	4,5	33
	VT1821-262406632	plug	OD6,35 (1/4")	54	14	12,3	15,7	15,5	4,5	30
	VT1821-262406061	socket	OD8 (5/16")	57	17	18,3	15,7	18,5	6,5	36
	VT1821-262406062	plug	OD8 (5/16")	57	17	12,3	15,7	18,5	6,5	33
C	VT1821-262408041	socket	OD6	56	15,5	18,3	19,5	15,5	4,5	50
	VT1821-262408042	plug	OD6	56	15,5	12,3	19,5	15,5	4,5	47
	VT1821-262408631	socket	OD6,35 (1/4")	56	15,5	18,3	19,5	15,5	4,5	50
	VT1821-262408632	plug	OD6,35 (1/4")	56	15,5	12,3	19,5	15,5	4,5	48
	VT1821-262408061	socket	OD8 (5/16")	58	17,5	18,3	19,5	18,5	6,5	53
	VT1821-262408062	plug	OD8 (5/16")	58	17,5	12,3	19,5	18,5	6,5	50
	VT1821-262408951	socket	OD9,5 (3/8")	60	19,5	18,3	19,5	21,3	6,5	54
	VT1821-262408952	plug	OD9,5 (3/8")	60	19,5	12,3	19,5	21,3	6,5	52
	VT1821-262408081	socket	OD10	60	19,5	18,3	19,5	21,3	8,5	54
	VT1821-262408082	plug	OD10	60	19,5	12,3	19,5	21,3	8,5	51
D	VT1821-262411091	socket	OD12	63	23	18,3	25,7	26	9,5	83
	VT1821-262411092	plug	OD12	63	23	12,3	25,7	26	9,5	80
	VT1821-262411111	socket	OD14	66	26	18,3	25,7	28,5	11,5	87
	VT1821-262411112	plug	OD14	66	26	12,3	25,7	28,5	11,5	84

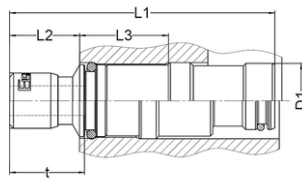
Adaptive insert without shut-off | 2 seals**



Socket



Plug



- **Material with media contact:** brass dezincification-resistant
- **Material without media contact:** brass
- Seal: FKM* -20 to +120 °C (-4 to 248 °F)
- Working pressure range: -0,8 to 24 bar (-11,5 to 348 psi)
- Suitable for cooling water, fluids

*Other sealing materials on request

A+E

Bore type	Part no.	Design	for tube	L1	L2	L3	D1	t	NW	g/piece
A	VT1821-242404021	socket	OD4 (5/32")	51	11	18,3	12,4	13,8	3	21
	VT1821-242404022	plug	OD4 (5/32")	51	11	12,3	12,4	13,8	3	19
	VT1821-242404041	socket	OD6	55	14,5	18,3	12,4	17,1	4,5	23
	VT1821-242404042	plug	OD6	55	14,5	12,3	12,4	17,1	4,5	21
B	VT1821-242406021	socket	OD4 (5/32")	52	12	18,3	15,7	13,8	3	32
	VT1821-242406022	plug	OD4 (5/32")	52	12	12,3	15,7	13,8	3	29
	VT1821-242406041	socket	OD6	54	13,4	18,3	15,7	17,1	4,5	33
	VT1821-242406042	plug	OD6	54	13,4	12,3	15,7	17,1	4,5	30
	VT1821-242406061	socket	OD8 (5/16")	58	17,6	18,3	15,7	20,3	6,5	37
	VT1821-242406062	plug	OD8 (5/16")	58	17,6	12,3	15,7	20,3	6,5	34
C	VT1821-242408041	socket	OD6	55	15	18,3	19,5	17,1	4,5	49
	VT1821-242408042	plug	OD6	55	15	12,3	19,5	17,1	4,5	44
	VT1821-242408061	socket	OD8 (5/16")	57	17	18,3	19,5	20,3	6,5	52
	VT1821-242408062	plug	OD8 (5/16")	57	17	12,3	19,5	20,3	6,5	50
	VT1821-242408081	socket	OD10	59	19	18,3	19,5	23,4	8,5	54
	VT1821-242408082	plug	OD10	59	19	12,3	19,5	23,4	8,5	52
D	VT1821-242411091	socket	OD12	65	25	18,3	25,7	28,4	9,5	85
	VT1821-242411092	plug	OD12	65	25	12,3	25,7	28,4	9,5	82
	VT1821-242411111	socket	OD14	70	30	18,3	25,7	32,3	11,5	89
	VT1821-242411112	plug	OD14	70	30	12,3	25,7	32,3	11,5	86

** on request

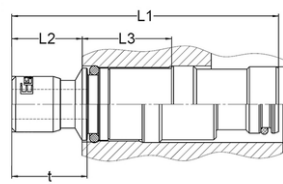
Adaptive insert without shut-off | 1 seal



Socket



Plug



- Material: stainless steel 1.4404 (AISI 316L)
- Seals: FKM* -20 to 120 °C (-4 to 248 °F)
- Working pressure range: -0,8 to 16 bar (-11,5 to 232 psi)
- Suitable for cooling water, fluids

*Other sealing materials on request

A+E

Bore type	Part no.	Design	for tube	L1	L2	L3	D1	t	NW	g/piece
A	VT1821-092404021	socket	OD4 (5/32")	52	11,5	18,3	12,4	12,7	3	19
	VT1821-092404022	plug	OD4 (5/32")	52	11,5	12,3	12,4	12,7	3	18
	VT1821-092404041	socket	OD6	54	13,5	18,3	12,4	15,5	4,5	21
	VT1821-092404042	plug	OD6	54	13,5	12,3	12,4	15,5	4,5	19
B	VT1821-092406021	socket	OD4 (5/32")	53	12,5	18,3	15,7	12,7	3	29
	VT1821-092406022	plug	OD4 (5/32")	53	12,5	12,3	15,7	12,7	3	27
	VT1821-092406041	socket	OD6	54	14	18,3	15,7	15,5	4,5	31
	VT1821-092406042	plug	OD6	54	14	12,3	15,7	15,5	4,5	28
	VT1821-092406631	socket	OD6,35 (1/4")	54	14	18,3	15,7	15,5	4,5	31
	VT1821-092406632	plug	OD6,35 (1/4")	54	14	12,3	15,7	15,5	4,5	28
	VT1821-092406061	socket	OD8 (5/16")	57	17	18,3	15,7	18,5	6,5	33
	VT1821-092406062	plug	OD8 (5/16")	57	17	12,3	15,7	18,5	6,5	30
C	VT1821-092408041	socket	OD6	56	15,5	18,3	19,5	15,5	4,5	46
	VT1821-092408042	plug	OD6	56	15,5	12,3	19,5	15,5	4,5	44
	VT1821-092408631	socket	OD6,35 (1/4")	56	15,5	18,3	19,5	15,5	4,5	47
	VT1821-092408632	plug	OD6,35 (1/4")	56	15,5	12,3	19,5	15,5	4,5	44
	VT1821-092408061	socket	OD8 (5/16")	58	17,5	18,3	19,5	18,5	6,5	49
	VT1821-092408062	plug	OD8 (5/16")	58	17,5	12,3	19,5	18,5	6,5	46
	VT1821-092408951	socket	OD9,5 (3/8")	60	19,5	18,3	19,5	21,3	6,5	50
	VT1821-092408952	plug	OD9,5 (3/8")	60	19,5	12,3	19,5	21,3	6,5	48
	VT1821-092408081	socket	OD10	60	19,5	18,3	19,5	21,3	8,5	50
	VT1821-092408082	plug	OD10	60	19,5	12,3	19,5	21,3	8,5	47
D	VT1821-092411061	socket	OD8 (5/16")	60	19,4	18,3	25,7	18,5	6,5	72
	VT1821-092411062	plug	OD8 (5/16")	60	19,4	12,3	25,7	18,5	6,5	70
	VT1821-092411091	socket	OD12	63	23	18,3	25,7	26	9,5	77
	VT1821-092411092	plug	OD12	63	23	12,3	25,7	26	9,5	74
	VT1821-092411111	socket	OD14	66	26	18,3	25,7	28,5	11,5	80
	VT1821-092411112	plug	OD14	66	26	12,3	25,7	28,5	11,5	77

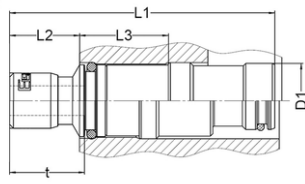
Adaptive insert without shut-off | 2 seals**



Socket



Plug



- Material: stainless steel 1.4404 (AISI 316L)
- Seals: FKM* -20 to 120 °C (-4 to 248 °F)
- Working pressure range: -0,8 to 24 bar (-11,5 to 348 psi)
- Suitable for cooling water, fluids

*Other sealing materials on request

A+E

Bore type	Part no.	Design	for tube	L1	L2	L3	D1	t	NW	g/piece
A	VT1821-172404021	socket	OD4 (5/32")	51	11	18,3	12,4	13,8	3	19
	VT1821-172404022	plug	OD4 (5/32")	51	11	12,3	12,4	13,8	3	18
	VT1821-172404041	socket	OD6	55	14,5	18,3	12,4	17,1	4,5	21
	VT1821-172404042	plug	OD6	55	14,5	12,3	12,4	17,1	4,5	20
B	VT1821-172406021	socket	OD4 (5/32")	52	12	18,3	15,7	13,8	3	30
	VT1821-172406022	plug	OD4 (5/32")	52	12	12,3	15,7	13,8	3	27
	VT1821-172406041	socket	OD6	54	13,4	18,3	15,7	17,1	4,5	31
	VT1821-172406042	plug	OD6	54	13,4	12,3	15,7	17,1	4,5	28
	VT1821-172406061	socket	OD8 (5/16")	58	17,6	18,3	15,7	20,3	6,5	35
	VT1821-172406062	plug	OD8 (5/16")	58	17,6	12,3	15,7	20,3	6,5	32
C	VT1821-172408041	socket	OD6	55	15	18,3	19,5	17,1	4,5	46
	VT1821-172408042	plug	OD6	55	15	12,3	19,5	17,1	4,5	44
	VT1821-172408061	socket	OD8 (5/16")	57	17	18,3	19,5	20,3	6,5	49
	VT1821-172408062	plug	OD8 (5/16")	57	17	12,3	19,5	20,3	6,5	46
	VT1821-172408081	socket	OD10	59	19	18,3	19,5	23,4	8,5	51
	VT1821-172408082	plug	OD10	59	19	12,3	19,5	23,4	8,5	48
D	VT1821-172411091	socket	OD12	65	25	18,3	25,7	28,4	9,5	80
	VT1821-172411092	plug	OD12	65	25	12,3	25,7	28,4	9,5	77
	VT1821-172411111	socket	OD14	70	30	18,3	25,7	32,3	11,5	83
	VT1821-172411112	plug	OD14	70	30	12,3	25,7	32,3	11,5	80

** on request

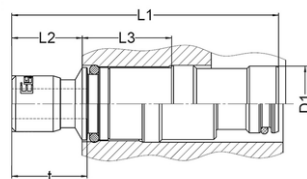
Adaptive insert with shut-off | 1 seal



Socket



Plug



- Material: brass nickel-plated
- Seal: FKM* -20 to +120 °C (-4 to 248 °F)
- Working pressure range: 0 to 16 bar (0 to 232 psi)
- Suitable for compressed air
- Vacuum version on request

*Other sealing materials on request

Bore type	Part no.	Design	for tube	L1	L2	L3	D1	t	NW	g/piece
A	VT1820-062404021	socket	OD4 (5/32")	52	11,5	18,3	12,4	12,7	3	23
	VT1820-062404022	plug	OD4 (5/32")	52	11,5	12,3	12,4	12,7	3	21
	VT1820-062404041	socket	OD6	54	13,5	18,3	12,4	15,5	4,5	24
	VT1820-062404042	plug	OD6	54	13,5	12,3	12,4	15,5	4,5	23
B	VT1820-062406021	socket	OD4 (5/32")	53	12,5	18,3	15,7	12,7	3	36
	VT1820-062406022	plug	OD4 (5/32")	53	12,4	12,3	15,7	12,7	3	33
	VT1820-062406041	socket	OD6	54	14	18,3	15,7	15,5	4,5	37
	VT1820-062406042	plug	OD6	54	14,4	12,3	15,7	15,5	4,5	34
	VT1820-062406631	socket	OD6,35 (1/4")	54	14	18,3	15,7	15,5	4,5	37
	VT1820-062406632	plug	OD6,35 (1/4")	54	14	12,3	15,7	15,5	4,5	34
	VT1820-062406061	socket	OD8 (5/16")	57	17	18,3	15,7	18,5	6,5	40
	VT1820-062406062	plug	OD8 (5/16")	57	17	12,3	15,7	18,5	6,5	37
C	VT1820-062408041	socket	OD6	56	15,5	18,3	19,5	15,5	4,5	55
	VT1820-062408042	plug	OD6	56	15,5	12,3	19,5	15,5	4,5	53
	VT1820-062408631	socket	OD6,35 (1/4")	56	15,5	18,3	19,5	15,5	4,5	56
	VT1820-062408632	plug	OD6,35 (1/4")	56	15,5	12,3	19,5	15,5	4,5	53
	VT1820-062408061	socket	OD8 (5/16")	58	17,5	18,3	19,5	18,5	6,5	59
	VT1820-062408062	plug	OD8 (5/16")	58	17,5	12,3	19,5	18,5	6,5	56
	VT1820-062408951	socket	OD9,5 (3/8")	60	19,5	18,3	19,5	21,3	6,5	60
	VT1820-062408952	plug	OD9,5 (3/8")	60	19,5	12,3	19,5	21,3	6,5	57
	VT1820-062408081	socket	OD10	60	19,5	18,3	19,5	21,3	8,5	60
	VT1820-062408082	plug	OD10	60	19,5	12,3	19,5	21,3	8,5	57
D	VT1820-062411061	socket	OD8 (5/16")	60	19,4	18,3	25,7	18,5	6,5	90
	VT1820-062411062	plug	OD8 (5/16")	60	19,4	12,3	25,7	18,5	6,5	89
	VT1820-062411091	socket	OD12	63	23	18,3	25,7	26	9,5	94
	VT1820-062411092	plug	OD12	63	23	12,3	25,7	26	9,5	94
	VT1820-062411111	socket	OD14	66	26	18,3	25,7	28,5	11	98
	VT1820-062411112	plug	OD14	66	26	12,3	25,7	28,5	11	97

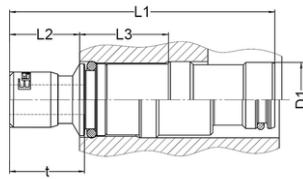
Adaptive insert with shut-off | 2 seals**



Socket



Plug



- Material: brass nickel-plated
- Seal: FKM* -20 to +120 °C (-4 to 248 °F)
- Working pressure range: 0 to 24 bar (0 to 348 psi)
- Suitable for compressed air
- Vacuum version on request

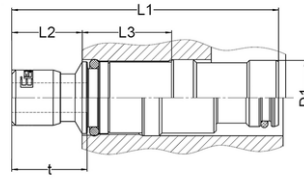
*Other sealing materials on request

A+E

Bore type	Part no.	Design	for tube	L1	L2	L3	D1	t	NW	g/piece
A	VT1820-142404021	socket	OD4 (5/32")	51	11	18,3	12,4	13,8	3	24
	VT1820-142404022	plug	OD4 (5/32")	51	11	12,3	12,4	13,8	3	23
	VT1820-142404041	socket	OD6	55	14,5	18,3	12,4	17,1	4,5	27
	VT1820-142404042	plug	OD6	55	14,5	12,3	12,4	17,1	4,5	25
B	VT1820-142406021	socket	OD4 (5/32")	52	12	18,3	15,7	13,8	3	37
	VT1820-142406022	plug	OD4 (5/32")	52	12	12,3	15,7	13,8	3	35
	VT1820-142406041	socket	OD6	54	13,4	18,3	15,7	17,1	4,5	37
	VT1820-142406042	plug	OD6	54	13,4	12,3	15,7	17,1	4,5	34
	VT1820-142406061	socket	OD8 (5/16")	58	17,6	18,3	15,7	20,3	6,5	41
	VT1820-142406062	plug	OD8 (5/16")	58	17,6	12,3	15,7	20,3	6,5	38
C	VT1820-142408041	socket	OD6	55	15	18,3	19,5	17,1	4,5	57
	VT1820-142408042	plug	OD6	55	15	12,3	19,5	17,1	4,5	55
	VT1820-142408061	socket	OD8 (5/16")	57	17	18,3	19,5	20,3	6,5	61
	VT1820-142408062	plug	OD8 (5/16")	57	17	12,3	19,5	20,3	6,5	59
	VT1820-142408081	socket	OD10	59	19	18,3	19,5	23,4	8,5	63
	VT1820-142408082	plug	OD10	59	19	12,3	19,5	23,4	8,5	61
D	VT1820-142411091	socket	OD12	65	25	18,3	25,7	28,4	9,5	102
	VT1820-142411092	plug	OD12	65	25	12,3	25,7	28,4	9,5	103
	VT1820-142411111	socket	OD14	70	30	18,3	25,7	32,3	11	106
	VT1820-142411112	plug	OD14	70	30	12,3	25,7	32,3	11	107

** on request

Adaptive insert with shut-off | 1 seal



- Material with media contact: brass dezincification-resistant
- Material without media contact: brass
- Seal: FKM* -20 to +120 °C (-4 to 248 °F)
- Working pressure range: 0 to 16 bar (0 to 232 psi)
- Suitable for cooling water, fluids
- Vacuum version on request

*Other sealing materials on request

A+E

Bore type	Part no.	Design	for tube	L1	L2	L3	D1	t	NW	g/piece
A	VT1820-262404021	socket	OD4 (5/32")	52	11,5	18,3	12,4	12,7	3	23
	VT1820-262404022	plug	OD4 (5/32")	52	11,5	12,3	12,4	12,7	3	21
	VT1820-262404041	socket	OD6	54	13,5	18,3	12,4	15,5	4,5	24
	VT1820-262404042	plug	OD6	54	13,5	12,3	12,4	15,5	4,5	23
B	VT1820-262406021	socket	OD4 (5/32")	53	12,5	18,3	15,7	12,7	3	36
	VT1820-262406022	plug	OD4 (5/32")	53	12,5	12,3	15,7	12,7	3	33
	VT1820-262406041	socket	OD6	54	14	18,3	15,7	15,5	4,5	37
	VT1820-262406042	plug	OD6	54	14	12,3	15,7	15,5	4,5	34
	VT1820-262406631	socket	OD6,35 (1/4")	54	14	18,3	15,7	15,5	4,5	37
	VT1820-262406632	plug	OD6,35 (1/4")	54	14	12,3	15,7	15,5	4,5	34
	VT1820-262406061	socket	OD8 (5/16")	57	17	18,3	15,7	18,5	6,5	40
	VT1820-262406062	plug	OD8 (5/16")	57	17	12,3	15,7	18,5	6,5	37
C	VT1820-262408041	socket	OD6	56	15,5	18,3	19,5	15,5	4,5	56
	VT1820-262408042	plug	OD6	56	15,5	12,3	19,5	15,5	4,5	53
	VT1820-262408631	socket	OD6,35 (1/4")	56	15,5	18,3	19,5	15,5	4,5	56
	VT1820-262408632	plug	OD6,35 (1/4")	56	15,5	12,3	19,5	15,5	4,5	53
	VT1820-262408061	socket	OD8 (5/16")	58	17,5	18,3	19,5	18,5	6,5	58
	VT1820-262408062	plug	OD8 (5/16")	58	17,5	12,3	19,5	18,5	6,5	55
	VT1820-262408951	socket	OD9,5 (3/8")	60	19,5	18,3	19,5	21,3	6,5	60
	VT1820-262408952	plug	OD9,5 (3/8")	60	19,5	12,3	19,5	21,3	6,5	57
	VT1820-262408081	socket	OD10	60	19,5	18,3	19,5	21,3	8,5	60
	VT1820-262408082	plug	OD10	60	19,5	12,3	19,5	21,3	8,5	57
D	VT1820-262411091	socket	OD12	63	23	18,3	25,7	26	9,5	94
	VT1820-262411092	plug	OD12	63	23	12,3	25,7	26	9,5	94
	VT1820-262411111	socket	OD14	66	26	18,3	25,7	28,5	11	98
	VT1820-262411112	plug	OD14	66	26	12,3	25,7	28,5	11	97

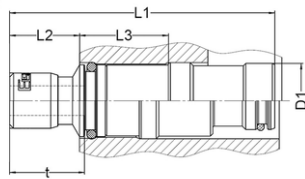
Adaptive insert with shut-off | 2 seals**



Socket



Plug



- Material with media contact: brass dezincification-resistant
- Material without media contact: brass
- Seal: FKM* -20 to +120 °C (-4 to 248 °F)
- Working pressure range: 0 to 24 bar (0 to 348 psi)
- Suitable for cooling water, fluids
- Vacuum version on request

*Other sealing materials on request

A+E

Bore type	Part no.	Design	for tube	L1	L2	L3	D1	t	NW	g/piece
A	VT1820-242404021	socket	OD4 (5/32")	51	11	18,3	12,4	13,8	3	24
	VT1820-242404022	plug	OD4 (5/32")	51	11	12,3	12,4	13,8	3	23
	VT1820-242404041	socket	OD6	55	14,5	18,3	12,4	17,1	4,5	27
	VT1820-242404042	plug	OD6	55	14,5	12,3	12,4	17,1	4,5	25
B	VT1820-242406021	socket	OD4 (5/32")	52	12	18,3	15,7	13,8	3	37
	VT1820-242406022	plug	OD4 (5/32")	52	12	12,3	15,7	13,8	3	35
	VT1820-242406041	socket	OD6	54	13,4	18,3	15,7	17,1	4,5	37
	VT1820-242406042	plug	OD6	54	13,4	12,3	15,7	17,1	4,5	34
	VT1820-242406061	socket	OD8 (5/16")	58	17,6	18,3	15,7	20,3	6,5	41
	VT1820-242406062	plug	OD8 (5/16")	58	17,6	12,3	15,7	20,3	6,5	38
C	VT1820-242408041	socket	OD6	55	15	18,3	19,5	17,1	4,5	57
	VT1820-242408042	plug	OD6	55	15	12,3	19,5	17,1	4,5	55
	VT1820-242408061	socket	OD8 (5/16")	57	17	18,3	19,5	20,3	6,5	61
	VT1820-242408062	plug	OD8 (5/16")	57	17	12,3	19,5	20,3	6,5	59
	VT1820-242408081	socket	OD10	59	19	18,3	19,5	23,4	8,5	63
	VT1820-242408082	plug	OD10	59	19	12,3	19,5	23,4	8,5	61
D	VT1820-242411091	socket	OD12	65	25	18,3	25,7	28,4	9,5	102
	VT1820-242411092	plug	OD12	65	25	12,3	25,7	28,4	9,5	103
	VT1820-242411111	socket	OD14	70	30	18,3	25,7	32,3	11	106
	VT1820-242411112	plug	OD14	70	30	12,3	25,7	32,3	11	107

** on request

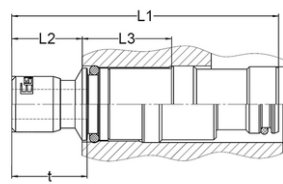
Adaptive insert with shut-off | 1 seal



Socket



Plug



- Material: stainless steel 1.4404 (AISI 316L)
- Seal: FKM* -20 to 120 °C (-4 to 248 °F)
- Working pressure range: 0 to 16 bar (0 to 232 psi)
- Suitable for cooling water, fluids
- Vacuum version on request

*Other sealing materials on request

A+E

Bore type	Part no.	Design	for tube	L1	L2	L3	D1	t	NW	g/piece
A	VT1820-092404021	socket	OD4 (5/32")	52	11,5	18,3	12,4	12,7	3	21
	VT1820-092404022	plug	OD4 (5/32")	52	11,5	12,3	12,4	12,7	3	20
	VT1820-092404041	socket	OD6	54	13,5	18,3	12,4	15,5	4,5	23
	VT1820-092404042	plug	OD6	54	13,5	12,3	12,4	15,5	4,5	21
B	VT1820-092406021	socket	OD4 (5/32")	53	12,5	18,3	15,7	12,7	3	33
	VT1820-092406022	plug	OD4 (5/32")	53	12,5	12,3	15,7	12,7	3	31
	VT1820-092406041	socket	OD6	54	14	18,3	15,7	15,5	4,5	35
	VT1820-092406042	plug	OD6	54	14	12,3	15,7	15,5	4,5	32
	VT1820-092406631	socket	OD6,35 (1/4")	54	14	18,3	15,7	15,5	4,5	35
	VT1820-092406632	plug	OD6,35 (1/4")	54	14	12,3	15,7	15,5	4,5	32
	VT1820-092406061	socket	OD8 (5/16")	57	17	18,3	15,7	18,5	6,5	37
	VT1820-092406062	plug	OD8 (5/16")	57	17	12,3	15,7	18,5	6,5	34
C	VT1820-092408041	socket	OD6	56	15,5	18,3	19,5	15,5	4,5	53
	VT1820-092408042	plug	OD6	56	15,5	12,3	19,5	15,5	4,5	50
	VT1820-092408631	socket	OD6,35 (1/4")	56	15,5	18,3	19,5	15,5	4,5	53
	VT1820-092408632	plug	OD6,35 (1/4")	56	15,5	12,3	19,5	15,5	4,5	50
	VT1820-092408061	socket	OD8 (5/16")	58	17,5	18,3	19,5	18,5	6,5	54
	VT1820-092408062	plug	OD8 (5/16")	58	17,5	12,3	19,5	18,5	6,5	51
	VT1820-092408951	socket	OD9,5 (3/8")	60	19,5	18,3	19,5	21,3	6,5	56
	VT1820-092408952	plug	OD9,5 (3/8")	60	19,5	12,3	19,5	21,3	6,5	53
	VT1820-092408081	socket	OD10	60	19,5	18,3	19,5	21,3	8,5	55
	VT1820-092408082	plug	OD10	60	19,5	12,3	19,5	21,3	8,5	52
D	VT1820-092411061	socket	OD8 (5/16")	60	19,4	18,3	25,7	18,5	6,5	83
	VT1820-092411062	plug	OD8 (5/16")	60	19,4	12,3	25,7	18,5	6,5	82
	VT1820-092411091	socket	OD12	63	23	18,3	25,7	26	9,5	87
	VT1820-092411092	plug	OD12	63	23	12,3	25,7	26	9,5	87
	VT1820-092411111	socket	OD14	66	26	18,3	25,7	28,5	11	90
	VT1820-092411112	plug	OD14	66	26	12,3	25,7	28,5	11	90

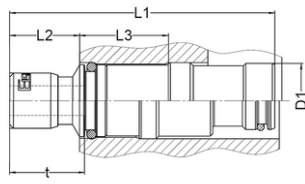
Adaptive insert with shut-off | 2 seals**



Socket



Plug



- Material: stainless steel 1.4404 (AISI 316L)
- Seals: FKM* -20 to 120 °C (-4 to 248 °F)
- Working pressure range: 0 to 24 bar (0 to 348 psi)
- Suitable for cooling water, fluids
- Vacuum version on request

*Other sealing materials on request

A+E

Bore type	Part no.	Design	for tube	L1	L2	L3	D1	t	NW	g/piece
A	VT1820-172404021	socket	OD4 (5/32")	51	11	18,3	12,4	13,8	3	21
	VT1820-172404022	plug	OD4 (5/32")	51	11	12,3	12,4	13,8	3	20
	VT1820-172404041	socket	OD6	55	14,5	18,3	12,4	17,1	4,5	23
	VT1820-172404042	plug	OD6	55	14,5	12,3	12,4	17,1	4,5	22
B	VT1820-172406021	socket	OD4 (5/32")	52	12	18,3	15,7	13,8	3	34
	VT1820-172406022	plug	OD4 (5/32")	52	12	12,3	15,7	13,8	3	31
	VT1820-172406041	socket	OD6	54	13,4	18,3	15,7	17,1	4,5	34
	VT1820-172406042	plug	OD6	54	13,4	12,3	15,7	17,1	4,5	31
	VT1820-172406061	socket	OD8 (5/16")	58	17,6	18,3	15,7	20,3	6,5	38
	VT1820-172406062	plug	OD8 (5/16")	58	17,6	12,3	15,7	20,3	6,5	36
C	VT1820-172408041	socket	OD6	55	15	18,3	19,5	17,1	4,5	52
	VT1820-172408042	plug	OD6	55	15	12,3	19,5	17,1	4,5	50
	VT1820-172408061	socket	OD8 (5/16")	57	17	18,3	19,5	20,3	6,5	55
	VT1820-172408062	plug	OD8 (5/16")	57	17	12,3	19,5	20,3	6,5	52
	VT1820-172408081	socket	OD10	59	19	18,3	19,5	23,4	8,5	56
	VT1820-172408082	plug	OD10	59	19	12,3	19,5	23,4	8,5	53
D	VT1820-172411041	socket	OD6	57	16,3	18,3	15,7	17,1	4,5	81
	VT1820-172411042	plug	OD6	57	16,3	12,3	15,7	17,1	4,5	81
	VT1820-172411091	socket	OD12	65	25	18,3	25,7	28,4	9,5	90
	VT1820-172411092	plug	OD12	65	25	12,3	25,7	28,4	9,5	90
	VT1820-172411111	socket	OD14	70	30	18,3	25,7	32,3	11	93
	VT1820-172411112	plug	OD14	70	30	12,3	25,7	32,3	11	93

** on request

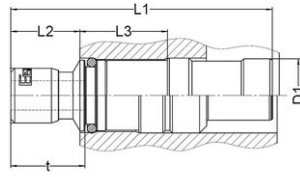
Adaptive insert drip-free | 1 seal



Socket



Plug



- Material with media contact: brass dezincification-resistant
- Material without media contact: brass
- Seal: FKM* 0 to 120 °C (32 to 248 °F)
- Working pressure range: 0 to 16 bar (0 to 232 psi)
- Coupling temperature: 0 to 50 °C (32 to 122 °F)
- Suitable for cooling water, fluids

*Other sealing materials on request

Bore type	Part no.	Design	for tube	L1	L2	L3	D1	t	NW	g/piece
B	VT1825-262406021	socket	OD4 (5/32")	53	12,5	18,3	15,7	12,7	3	46
	VT1825-262406022	plug	OD4 (5/32")	53	12,5	12,3	15,7	12,7	3	36
	VT1825-262406041	socket	OD6	54	14	18,3	15,7	15,5	4,5	47
	VT1825-262406042	plug	OD6	54	14	12,3	15,7	15,5	4,5	38
	VT1825-262406631	socket	OD6,35 (1/4")	54	14	18,3	15,7	15,5	4,5	47
	VT1825-262406632	plug	OD6,35 (1/4")	54	14	12,3	15,7	15,5	4,5	38
	VT1825-262406061	socket	OD8 (5/16")	57	17	18,3	15,7	18,5	4,5	50
	VT1825-262406062	plug	OD8 (5/16")	57	17	12,3	15,7	18,5	4,5	41
C	VT1825-262408041	socket	OD6	56	15,5	18,3	19,5	15,5	4,5	65
	VT1825-262408042	plug	OD6	56	15,5	12,3	19,5	15,5	4,5	57
	VT1825-262408631	socket	OD6,35 (1/4")	56	15,5	18,3	19,5	15,5	4,5	65
	VT1825-262408632	plug	OD6,35 (1/4")	56	15,5	12,3	19,5	15,5	4,5	57
	VT1825-262408061	socket	OD8 (5/16")	58	17,5	18,3	19,5	18,5	6,5	68
	VT1825-262408062	plug	OD8 (5/16")	58	17,5	12,3	19,5	18,5	6,5	60
	VT1825-262408951	socket	OD9,5 (3/8")	60	19,5	18,3	19,5	21,3	6,5	69
	VT1825-262408952	plug	OD9,5 (3/8")	60	19,5	12,3	19,5	21,3	6,5	61
	VT1825-262408081	socket	OD10	60	19,5	18,3	19,5	21,3	6,5	69
	VT1825-262408082	plug	OD10	60	19,5	12,3	19,5	21,3	6,5	61

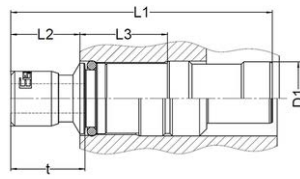
Adaptive insert drip-free | 2 seals**



Socket



Plug



- Material with media contact: brass dezincification-resistant
- Material without media contact: brass
- Seal: FKM* 0 to 120 °C (32 to 248 °F)
- Working pressure range: 0 to 24 bar (0 to 348 psi)
- Coupling temperature: 0 to 50 °C (32 to 122 °F)
- Suitable for cooling water, fluids

*Other sealing materials on request

Bore type	Part no.	Design	for tube	L1	L2	L3	D1	t	NW	g/piece
B	VT1825-242406021	socket	OD4 (5/32")	52	12	18,3	15,7	13,8	3	47
	VT1825-242406022	plug	OD4 (5/32")	52	12	12,3	15,7	13,8	3	38
	VT1825-242406041	socket	OD6	54	13,4	18,3	15,7	17,1	4,5	47
	VT1825-242406042	plug	OD6	54	13,4	12,3	15,7	17,1	4,5	38
	VT1825-242406061	socket	OD8 (5/16")	58	17,6	18,3	15,7	20,3	4,5	51
	VT1825-242406062	plug	OD8 (5/16")	58	17,6	12,3	15,7	20,3	4,5	42
C	VT1825-242408041	socket	OD6	55	15	18,3	19,5	17,1	4,5	67
	VT1825-242408042	plug	OD6	55	15	12,3	19,5	17,1	4,5	59
	VT1825-242408061	socket	OD8 (5/16")	57	17	18,3	19,5	20,3	6,5	70
	VT1825-242408062	plug	OD8 (5/16")	57	17	12,3	19,5	20,3	6,5	63
	VT1825-242408081	socket	OD10	59	19	18,3	19,5	23,4	6,5	72
	VT1825-242408082	plug	OD10	59	19	12,3	19,5	23,4	6,5	65

** on request

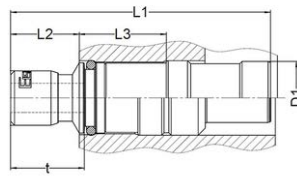
Adaptive insert drip-free | 1 seal



Socket



Plug



- Material: stainless steel 1.4404 (AISI 316L)
- Seal: FKM* -20 to 120 °C (-4 to 248 °F)
- Working pressure range: 0 to 16 bar (0 to 232 psi)
- Coupling temperature: 0 to 50 °C (32 to 122 °F)
- Suitable for cooling water, fluids

*Other sealing materials on request

A+E

Bore type	Part no.	Design	for tube	L1	L2	L3	D1	t	NW	g/piece
B	VT1825-092406021	socket	OD4 (5/32")	53	12,5	18,3	15,7	12,7	3	43
	VT1825-092406022	plug	OD4 (5/32")	53	12,5	12,3	15,7	12,7	3	33
	VT1825-092406041	socket	OD6	54	14	18,3	15,7	15,5	4,5	44
	VT1825-092406042	plug	OD6	54	14	12,3	15,7	15,5	4,5	35
	VT1825-092406631	socket	OD6,35 (1/4")	54	14	18,3	15,7	15,5	4,5	44
	VT1825-092406632	plug	OD6,35 (1/4")	54	14	12,3	15,7	15,5	4,5	35
	VT1825-092406061	socket	OD8 (5/16")	57	17	18,3	15,7	18,5	4,5	46
	VT1825-092406062	plug	OD8 (5/16")	57	17	12,3	15,7	18,5	4,5	38
C	VT1825-092408041	socket	OD6	56	15,5	18,3	19,5	15,5	4,5	60
	VT1825-092408042	plug	OD6	56	15,5	12,3	19,5	15,5	4,5	53
	VT1825-092408631	socket	OD6,35 (1/4")	56	15,5	18,3	19,5	15,5	4,5	60
	VT1825-092408632	plug	OD6,35 (1/4")	56	15,5	12,3	19,5	15,5	4,5	53
	VT1825-092408061	socket	OD8 (5/16")	58	17,5	18,3	19,5	18,5	6,5	63
	VT1825-092408062	plug	OD8 (5/16")	58	17,5	12,3	19,5	18,5	6,5	56
	VT1825-092408951	socket	OD9,5 (3/8")	60	19,5	18,3	19,5	21,3	6,5	64
	VT1825-092408952	plug	OD9,5 (3/8")	60	19,5	12,3	19,5	21,3	6,5	57
	VT1825-092408081	socket	OD10	60	19,5	18,3	19,5	21,3	6,5	64
	VT1825-092408082	plug	OD10	60	19,5	12,3	19,5	21,3	6,5	57

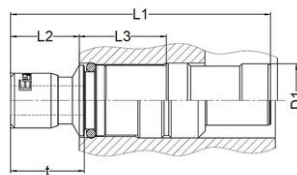
Adaptive insert drip-free | 2 seals**



Socket



Plug



- Material: stainless steel 1.4404 (AISI 316L)
- Seal: FKM* -20 to 120 °C (-4 to 248 °F)
- Working pressure range: 0 to 24 bar (0 to 348 psi)
- Coupling temperature: 0 to 50 °C (32 to 122 °F)
- Suitable for cooling water, fluids

*Other sealing materials on request

Bore type	Part no.	Design	for tube	L1	L2	L3	D1	t	NW	g/piece
B	VT1825-172406021	socket	OD4 (5/32")	52	12	18,3	15,7	13,8	3	44
	VT1825-172406022	plug	OD4 (5/32")	52	12	12,3	15,7	13,8	3	33
	VT1825-172406041	socket	OD6	54	13,4	18,3	15,7	17,1	4,5	43
	VT1825-172406042	plug	OD6	54	13,4	12,3	15,7	17,1	4,5	34
	VT1825-172406061	socket	OD8 (5/16")	58	17,6	18,3	15,7	20,3	4,5	47
	VT1825-172406062	plug	OD8 (5/16")	58	17,6	12,3	15,7	20,3	4,5	40
C	VT1825-172408041	socket	OD6	55	15	18,3	19,5	17,1	4,5	59
	VT1825-172408042	plug	OD6	55	15	12,3	19,5	17,1	4,5	53
	VT1825-172408061	socket	OD8 (5/16")	57	17	18,3	19,5	20,3	6,5	64
	VT1825-172408062	plug	OD8 (5/16")	57	17	12,3	19,5	20,3	6,5	57
	VT1825-172408081	socket	OD10	59	19	18,3	19,5	23,4	6,5	65
	VT1825-172408082	plug	OD10	59	19	12,3	19,5	23,4	6,5	58

** on request

Content overview - bodies

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Functional principle

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**Round with union nut**

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1850 - Aluminum chemically nickel-plated

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1851 - Stainless steel 1.4404 (AISI 316L)

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**Round with lever**

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1852 - Aluminum chemically nickel-plated

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1862 - Aluminum chemically nickel-plated

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**Industrial connector**

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1856 - Aluminum chemically nickel-plated

45

A+E

Functional principle



Aluminum chemical nickel-plated	●		●	●	●
Stainless steel		●			

Bore types for adaptive inserts

One bore type	●	●	●	●	
Several bore types					●
A Tube up to OD6	● 4 to 12-fold	● 4 to 12-fold			
B Tube up to OD8	● 4 to 10-fold	● 4 to 10-fold	● 4 to 10-fold	● 8-fold	● 2x to 12x
B_{el} Tube up to OD8					
C Tube up to OD10	● 4 to 6-fold	● 4 to 6-fold			● 1x to 2x
C_{el} Tube up to OD10					
D Tube up to OD14	● 4-fold	● 4-fold	● 4-fold		

Media

Fluids	●	●	●	●	●
Electrics/electronics					
B_{el} Data and signal (M12)	●	●	●	●	●
C_{el} Power (M12 Power)					●

Accessories

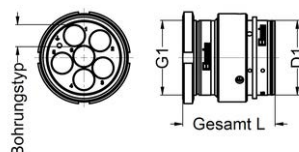
Tube bundle	 VT1850-99...	 VT1851-99...	 VT1850-99...	 1856-24505530	 VT1850-99...
Mounting bracket	 1850-95...	 1850-95...	 1852-95...		 1852-95...

Body | round with union nut

Socket



Plug



- Material: aluminum chemically nickel-plated
- Can be assembled as bulkhead
- Thread G1 suitable with selection of mounting bracket (see accessoires)
- Diameter D1 suitable for diameter D2 of tube bundle (see accessoires)
- Other sizes on request

A+E

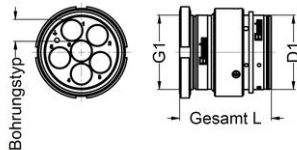
suitable bore types	Part no.	Assembly	Design	for tube	Total L	G1	D1	Drip-free (max)	Electrics / electronics	g/piece	
A	1850-040401	socket	4-fold	up to OD6	68	M34x1	-	-	-	60	
	1850-040402	plug	4-fold	up to OD6	68	-	34	-	-	78	
	1850-060401	socket	6-fold	up to OD6	68	M42X1	-	-	-	85	
	1850-060402	plug	6-fold	up to OD6	68	-	42	-	-	102	
	1850-080401	socket	8-fold	up to OD6	68	M48X1	-	-	-	142	
	1850-080402	plug	8-fold	up to OD6	68	-	48	-	-	127	
	1850-100401	socket	10-fold	up to OD6	68	M55X1	-	-	-	143	
	1850-100402	plug	10-fold	up to OD6	68	-	55	-	-	176	
	1850-120401	socket	12-fold	up to OD6	68	M55X1	-	-	-	128	
	1850-120402	plug	12-fold	up to OD6	68	-	55	-	-	149	
	B	1850-040601	socket	4-fold	up to OD8	68	M42X1	-	2x	4x	80
		1850-040602	plug	4-fold	up to OD8	68	-	42	2x	4x	95
1850-060601		socket	6-fold	up to OD8	68	M55X1	-	2x	6x	146	
1850-060602		plug	6-fold	up to OD8	68	-	55	2x	6x	180	
1850-080601		socket	8-fold	up to OD8	68	M65X1	-	2x	8x	194	
1850-080602		plug	8-fold	up to OD8	68	-	65	2x	8x	248	
Bel	1850-100601	socket	10-fold	up to OD8	68	M70X1	-	2x	10x	211	
	1850-100602	plug	10-fold	up to OD8	68	-	68	2x	10x	245	
C	1850-040801	socket	4-fold	up to OD10	68	M55X1	-	2x	-	144	
	1850-040802	plug	4-fold	up to OD10	68	-	55	2x	-	177	
	1850-060801	socket	6-fold	up to OD10	68	M65X1	-	2x	-	177	
	1850-060802	plug	6-fold	up to OD10	68	-	65	2x	-	221	
D	1850-041101	socket	4-fold	up to OD14	68	M70X1	-	-	-	199	
	1850-041102	plug	4-fold	up to OD14	68	-	68	-	-	228	

Body | round with union nut

Socket



Plug

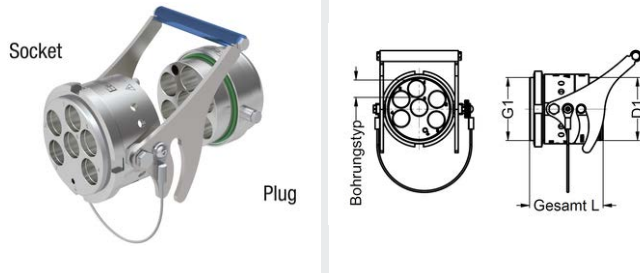


- Material: stainless steel AISI 316L (1.4404)
- Can be assembled as bulkhead
- Thread G1 suitable with selection of mounting bracket (see accessoires)
- Diameter D1 suitable for diameter D2 of tube bundle (see accessoires)
- Other sizes on request

A+E

suitable bore types	Part no.	Assembly	Design	for tube	Total L	G1	D1	Drip-free (max)	Electrics / electronics	g/piece
A	1851-040401	socket	4-fold	up to OD6	68	M34x1	-	-	-	170
	1851-040402	plug	4-fold	up to OD6	68	-	34	-	-	221
	1851-060401	socket	6-fold	up to OD6	68	M42X1	-	-	-	241
	1851-060402	plug	6-fold	up to OD6	68	-	42	-	-	289
	1851-080401	socket	8-fold	up to OD6	68	M48X1	-	-	-	403
	1851-080402	plug	8-fold	up to OD6	68	-	48	-	-	360
	1851-100401	socket	10-fold	up to OD6	68	M55X1	-	-	-	406
	1851-100402	plug	10-fold	up to OD6	68	-	55	-	-	499
	1851-120401	socket	12-fold	up to OD6	68	M55X1	-	-	-	363
	1851-120402	plug	12-fold	up to OD6	68	-	55	-	-	423
B	1851-040601	socket	4-fold	up to OD8	68	M42X1	-	2x	4x	227
	1851-040602	plug	4-fold	up to OD8	68	-	42	2x	4x	269
	1851-060601	socket	6-fold	up to OD8	68	M55X1	-	2x	6x	414
	1851-060602	plug	6-fold	up to OD8	68	-	55	2x	6x	511
Bel	1851-080601	socket	8-fold	up to OD8	68	M65X1	-	2x	8x	550
	1851-080602	plug	8-fold	up to OD8	68	-	65	2x	8x	704
C	1851-100601	socket	10-fold	up to OD8	68	M70X1	-	2x	10x	599
	1851-100602	plug	10-fold	up to OD8	68	-	68	2x	10x	695
	1851-040801	socket	4-fold	up to OD10	68	M55X1	-	2x	-	408
	1851-040802	plug	4-fold	up to OD10	68	-	55	2x	-	502
D	1851-060801	socket	6-fold	up to OD10	68	M65X1	-	2x	-	502
	1851-060802	plug	6-fold	up to OD10	68	-	65	2x	-	627
D	1851-041101	socket	4-fold	up to OD14	68	M70X1	-	-	-	565
	1851-041102	plug	4-fold	up to OD14	68	-	68	-	-	647

Body | round with lever

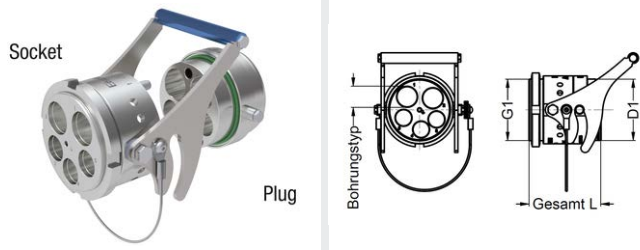


- Body material: Chemical nickel-plated aluminum
- Loose-protected knurled screw with retaining cable to secure the lever
- Can be mounted as bulkhead
- Thread G1 suitable with selection of mounting bracket (see accessories)
- Diameter D1 fits to diameter D2 of tube bundle (see accessories)
- Other sizes on request

suitable bore types	Part no.	Assembly	Design	for tube	Total L	G1	D1	Drip-free (max)	Electrics / electronics	g/piece
B	1852-040601	socket	4-fold	up to OD8	68	M48X1	-	4x	4x	291
	1852-040602	plug	4-fold	up to OD8	68	-	48	4x	4x	129
Bel	1852-060601	socket	6-fold	up to OD8	68	M58x1	-	4x	6x	342
	1852-060602	plug	6-fold	up to OD8	68	-	58	4x	6x	183
Bel	1852-080601	socket	8-fold	up to OD8	68	M65X1	-	4x	8x	376
	1852-080602	plug	8-fold	up to OD8	68	-	65	4x	8x	218
D	1852-100601	socket	10-fold	up to OD8	68	M70X1	-	4x	10x	396
	1852-100602	plug	10-fold	up to OD8	68	-	70	4x	10x	236
D	1852-041101	socket	4-fold	up to OD14	68	M70X1	-	-	-	383
	1852-041102	plug	4-fold	up to OD14	68	-	70	-	-	219

Before commissioning please read the document "Rule of interpretation and operating instructions for the Multiline 1852 and 1862", read more www.eisele.eu

Body | with lever | several types of bore



- Body material: Chemical nickel-plated aluminum
- Loose-protected knurled screw with retaining cable to secure the lever
- Can be mounted as bulkhead
- Thread G1 suitable with selection of mounting bracket (see accessories)
- Diameter D1 fits to diameter D2 of tube bundle (see accessories)
- Other sizes on request

suitable bore types	Part no.	Assembly	Design	B/Bel	C/Cel	Total L	G1	D1	Drip-free (max)	g/piece
B	1862-0002010001	socket	3-fold	2x	1x	68	M48X1	-	3x	297
	1862-0002010002	plug	3-fold	2x	1x	68	-	48	3x	138
Bel	1862-0003020001	socket	5-fold	3x	2x	68	M58x1	-	4x	339
	1862-0003020002	plug	5-fold	3x	2x	68	-	58	4x	178
Bel	1862-0004010001	socket	5-fold	4x	1x	68	M58x1	-	4x	348
	1862-0004010002	plug	5-fold	4x	1x	68	-	58	4x	192
C	1862-0005020001	socket	7-fold	5x	2x	68	M70X1	-	4x	421
	1862-0005020002	plug	7-fold	5x	2x	68	-	70	4x	275
Cel	1862-0006010001	socket	7-fold	6x	1x	68	M65x2	-	4x	382
	1862-0006010002	plug	7-fold	6x	1x	68	-	65	4x	227
Cel	1862-0007020001	socket	9-fold	7x	2x	68	M78x1	-	4x	474
	1862-0007020002	plug	9-fold	7x	2x	68	-	78	4x	340
Cel	1862-0009020001	socket	11-fold	9x	2x	68	M78x1	-	4x	446
	1862-0009020002	plug	11-fold	9x	2x	68	-	78	4x	295
Cel	1862-0012020001	socket	14-fold	12x	2x	68	M84x2	-	4x	471
	1862-0012020002	plug	14-fold	12x	2x	68	-	84	4x	318

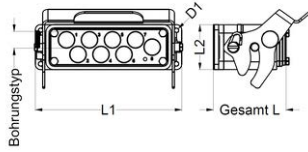
Before commissioning please read the document "Rule of interpretation and operating instructions for the Multiline 1852 and 1862", read more www.eisele.eu

Body | Industrial connector with lever

Dose



Stecker

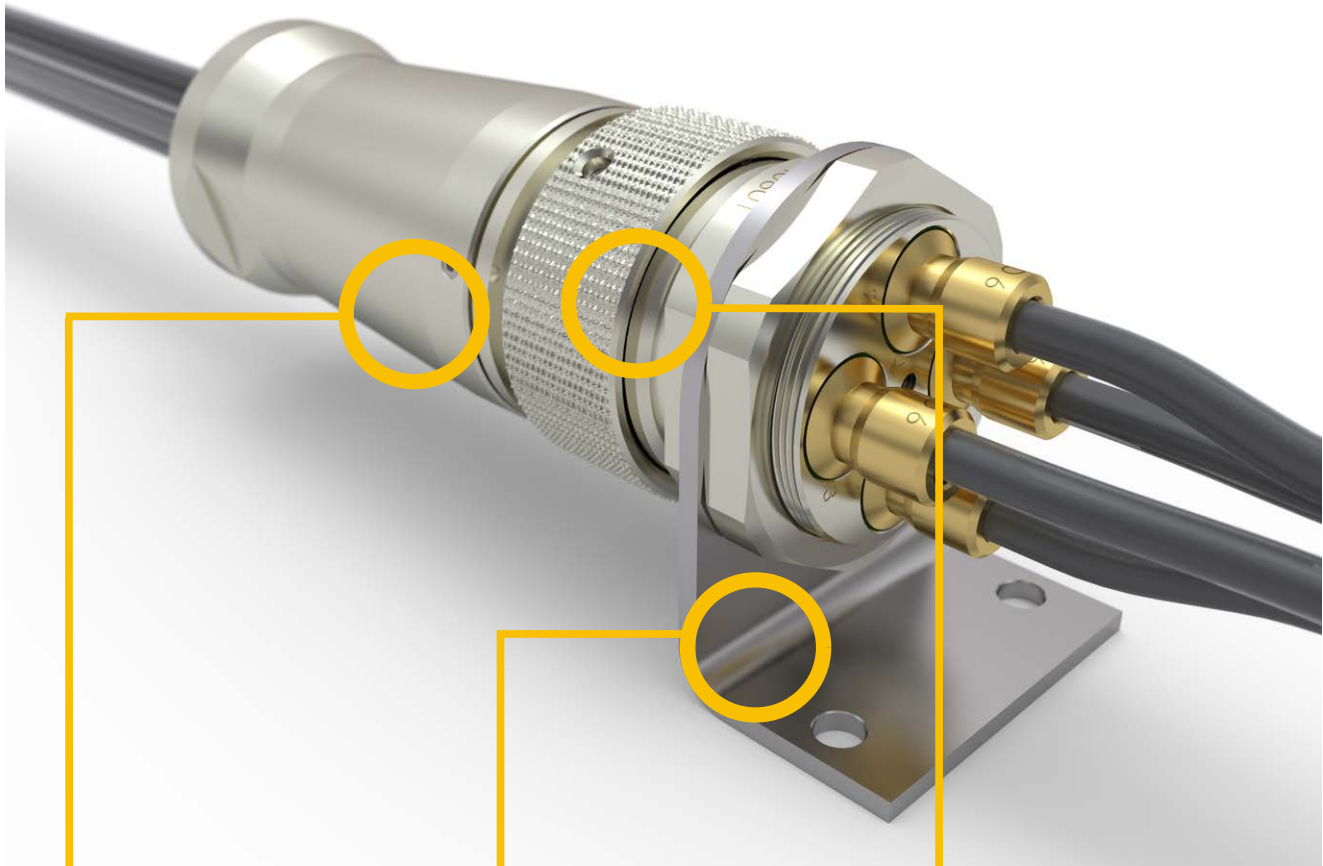


- Fits perfectly to the Eisele adaptive inserts
- Material Al nickel-plated, AISI 304 (1.4301), plastic
- Sealing FKM

A+E

suitable bore types	Artikelnummer	Assembly	Design	Total L	L1	L2	D1	Drip-free (max)	Electrics / electronics	g/piece
	1856-24080611	socket	8-fold	70	140	43	Ø4,3	2x	8x	453
	1856-24080602	plug	8-fold	70	-	-	-	2x	8x	372

Accessories



Tube bundle

- Protects coupling from dirt
- No deviation of the tube
- Strain relief of the tubes

Angle brackets

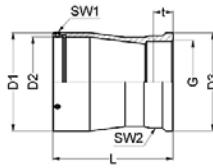
- Easy mounting to machines
- No special drilling necessary

Protection cap

- Prevents soiling in opened condition

ZUBEHÖR

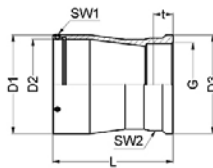
Tube bundle for body plug series 1850 + 1852 + 1862



- Material: Aluminum natural anodized
- Seal: FPM -20 to 120 °C (-4 to 248 °F)
- Will be screwed on the coupling plug
- Diameter D2 tube bundle must be equal to diameter D1 coupling

Part no.	G	D1	D2	D3	L1	t	SW1	SW2	g/piece
VT1850-990134	M25x1,5	40	34	32,5	60	12	2	30	42
VT1850-990142	M40x1,5	48	42	48	80	15	2	42	83
VT1850-990148	M40x1,5	55	48	48	80	15	2	42	105
VT1850-990155	M50x1,5	62	55	60	80	15	2	55	139
VT1850-990158	M50x1,5	65	58	60	82	15	2	55	143
VT1850-990165	M63x1,5	72	65	72	91	15	2	65	185
VT1850-990168	M63x1,5	75	68	75	91	15	2	70	218
VT1850-990170	M63x1,5	77	70	75	91	15	2	70	213

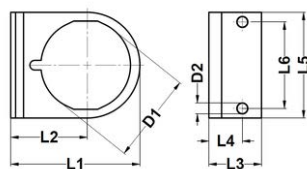
Tube bundle for body plug series 1851



- Material: stainless steel 1.4404 (AISI 316L)
- Seal: FPM -20 to 120 °C (-4 to 248 °F)
- Will be screwed on the coupling plug
- Diameter D2 tube bundle must be equal to diameter D1 coupling

Part no.	G	D1	D2	D3	L1	t	SW1	SW2	g/piece
VT1851-990134	M25x1,5	40	34	32,5	60	12	2	30	118
VT1851-990142	M40x1,5	48	42	48	80	15	2	42	236
VT1851-990148	M40x1,5	55	48	48	80	17	2	42	272
VT1851-990155	M50x1,5	62	55	60	80	15	2	55	295
VT1851-990165	M63x1,5	72	65	72	91	15	2	65	525
VT1851-990168	M63x1,5	75	68	75	91	15	2	70	618

Mounting bracket for body socket series 1850 + 1851



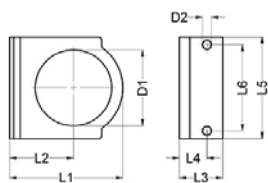
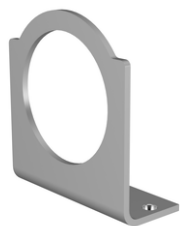
- Material: stainless steel 1.4301 (AISI 304)
- "for thread" fits to G1 of the base body

Part no.	for thread	D1	L1	L2	L3	L4	L5	L6	D2	g/piece
1850-9535	M34x1	35	58	34	33	21	44	32	6,5	57
1850-9543	M42x1	43	66	39	33	21	52	40	6,5	71
1850-9549	M48x1	49,2	71	42,5	33	21	57	45	6,5	77
1850-9556	M55x1	56,2	81	47	33	21	66	54	6,5	97
1850-9566	M65x1	66,2	91	52	33	21	77	65	6,5	117
1850-9571	M70x1	71,2	94	52	33	21	84	72	6,5	127

ACC

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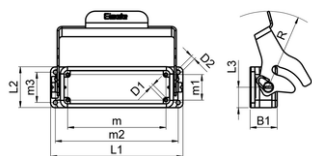
Mounting bracket for body socket series 1852 + 1862



- Material: stainless steel 1.4301 (AISI 304)
- "for thread" fits to G1 of the base body

Part no.	for thread	D1	D2	L1	L2	L3	L4	L5	L6	g/piece
1852-9548	M48x1	48,2	6,5	75,4	43,5	33	21	65	53	106
1852-9558	M58x1	58,2	6,5	86	48,5	33	21	78	66	132
1852-9565	M65x1	65,2	6,5	96,3	55,5	33	21	85	73	151
1852-9570	M70x1	70,2	6,5	102,1	58	33	21	90	78	164
1852-9578	M78x1	78,2	6,5	108,8	60	33	21	98	86	180
1852-9584	M84x1	84,2	6,5	112	60,5	33	21	104	92	185

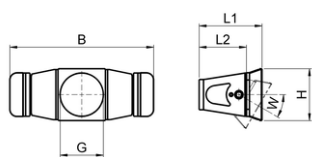
Locking lever for body socket 1856



- Material: Aluminum, stainless steel 1.4301 (AISI 304)
- Seal: FKM

Part no.	L1	L2	L3	m	m1	m2	m3	D1	D2	R	g/piece
1856-2400003	140	43	21,5	104	27	130	32	M3	Ø4,3	80	293

Tube bundle for body plug series 1856

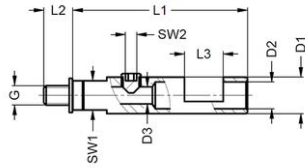


- Material: Aluminum, stainless steel 1.4301 (AISI 304), PVC
- Seal: NBR

Part no.	L1	L2	B	G	W	H	g/piece
1856-24505530	74,75	55	ca. 170	M50x1,5	30°, 60°	60	317

ACC

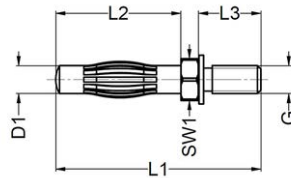
Ground bolt



- Material: Stainless steel AISI 316L, 304, A4 (1.4404, 1.4301, A4)
- Screw connection for single cores
- Functional earthing
- Is required when using electro-adaptive inserts to prevent interference signals (EMC protection)

Part no.	Nominal cross section [mm ²]	G	D1	D2	D3	L1	L2	L3	SW1	SW2	g/piece
1850-9100	2,5	M4	7,5	5,5	3,5	36	6	8	6	2	8

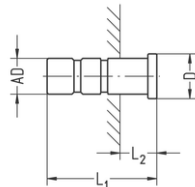
Contact plug grounding



- Material: brass nickel-plated
- Banana plug
- Functional earthing
- Is required when using electro-adaptive inserts to prevent interference signals (EMC protection)

Part no.	G	D1	L1	L2	L3	SW1	g/piece
1856-980101	M4	4	29,5	18	9	6	4

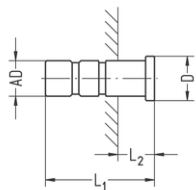
Closure plug



- Material: brass nickel-plated
- Temperature range: -20 to +120 °C (4 to 248 °F)
- Working pressure range: -0.95 to 24 bar (-14 to 348 psi)
- Fits to all connections from the programs 14, 14A and 15 in the respective size as well as for all MULTILINE couplings

Part no.	plug AD	L1	L2	D	g/piece
623-1800	3	18,5	7	6	1
623-0200	4	19	7	5,5	2
623-4300	4,3	19	7	5,5	2
623-0300	5	21	7,5	6,8	4
623-0400	6	21,5	6,5	7,8	5
623-6300	1/4" (6,3)	21,5	6,5	8	6
623-0600	8	24,5	6,5	9,8	11
623-9500	3/8" (9,5)	28	7,5	11,3	17
623-0800	10	28	7,5	11,8	19
623-0900	12	33	7	13,8	32
623-2700	1/2" (12,7)	33	7	14,5	36
623-1100	14	36	7,5	15,8	30
623-1200	16	38	7,5	17,8	38
623-1500	20	52	-	21,8	69

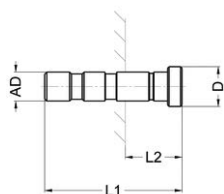
Closure plug



- Material with media contact: Brass, dezincification resistant
- Temperature range: -20 to +120 °C (-4 to 248 °F)
- Working pressure range: -0.95 to 24 bar (-14 to 348 psi)
- 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
2623-0400	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
2623-1500	20	52	-	21,8	69

Closure plug



- Material: stainless steel 1.4301/1.4307 (AISI 304/ 304L)
- Temperature range: -20 to +120 °C (-4 to 248 °F)
- Working pressure range: -0.95 to 24 bar (-14 to 348 psi)

Part no.	plug AD	L1	L2	D	g/piece
923-0200	4	19	7	5,5	2
923-0400	6	21,5	6,5	7,8	5
923-0600	8	24,5	6,5	9,8	10
923-0800	10	28	7,5	11,8	18
923-0900	12	33	7	13,8	30
923-1100	14	36	7,5	15,8	44

ACC

Color coding



- Material aluminum anodized
- Fits to MULTILINE ADAPTIV + E

Part no.	for tube	Color	g/piece
SA1394-1102	OD4	red	1
SA1394-1104	OD6	red	1
SA1394-1106	OD8	red	1
SA1394-1108	OD10	red	1
SA1394-1109	OD12	red	1
SA1394-1111	OD14	red	1
SA1394-1112	OD16	red	1
SA1394-1202	OD4	green	1
SA1394-1204	OD6	green	1
SA1394-1206	OD8	green	1
SA1394-1208	OD10	green	1
SA1394-1209	OD12	green	1
SA1394-1211	OD14	green	1
SA1394-1212	OD16	green	1
SA1394-1302	OD4	blue	1
SA1394-1304	OD6	blue	1
SA1394-1306	OD8	blue	1
SA1394-1308	OD10	blue	1
SA1394-1309	OD12	blue	1
SA1394-1311	OD14	blue	1
SA1394-1312	OD16	blue	1

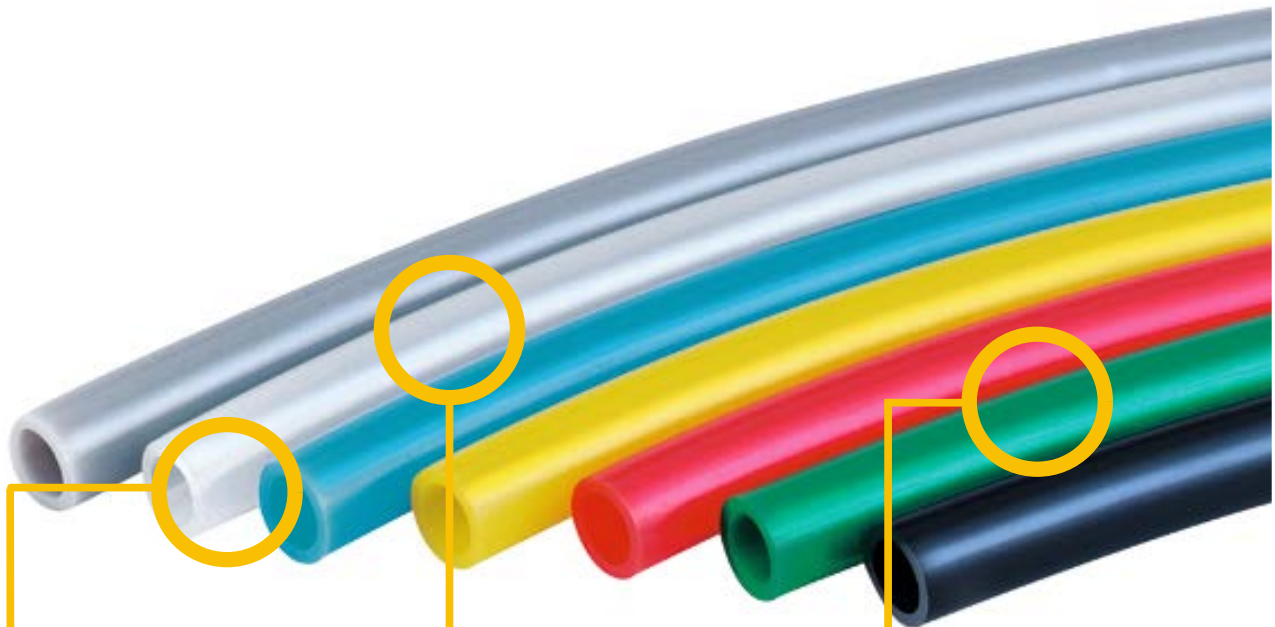
Protection cap for series 1850 + 1851



- Material: polyethylene (PE)
- protection caps compatible with socket and plug of the MULTILINE

Part no.	suitable for plug or socket 1850	suitable for plug or socket 1851
1800-97385	1850-040401	1851-040401
1800-97455	1850-040402	1851-040402
1800-97479	1850-040601	1850-040601
	1850-060401	1851-060401
1800-97505	1850-040602	1851-040602
	1850-060402	1851-060402
1800-97545	1850-080401	1851-080401
1800-97585	1850-080402	1851-080402
1800-97613	1850-040801	1851-040801
	1850-060601	1851-060601
	1850-100401	1851-100401
	1850-120401	1851-120401
1800-97679	1850-040802	1851-040802
	1850-060602	1851-060602
	1850-100402	1851-100402
	1850-120402	1851-120402
1800-97728	1850-060801	1851-060801
	1850-080601	1851-080601
1800-97740	1850-041101	1851-041101
	1850-100601	1851-100601
1800-97775	1850-060802	1851-060802
	1850-080602	1851-080602
1800-97815	1850-041102	1851-041102
	1850-100602	1851-100602

Plastic tubes



Versatile range of tubes

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

Color and code versions possible

- Tubes can be delivered in many common colors, e.g. to indicate different fluids
- Labeling of tubes for coding is also possible

Package solutions of connectors and tubes

- Secure combinations of EISELE connectors and their matching tubes
- **Very suitable for applications due to limited tolerances and a high demand for no leakage**

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

Tube types

Kind of calibration:

- Tubes for push-in fittings - external calibration, OD produced with narrow tolerances. Typical structure: single-layered, not reinforced with fabric lining.
- Tubes for spigots – internal calibration. Partly reinforced.

Kind of flexibility:

- Furthermore, a distinction is made between tubes which are resistant and nonresistant to buckling. Polyurethane tubes (e.g. PU, HYDRO Eisele, Eisele ProWeld) or PVC tubes are permanently flexible and relatively impervious to buckling! All other tubes have a clearly visible deformation (e.g. whitening) after buckling; replacement should be done.

Resistance

Tube types	Damage by weak acids/bases or water	Stress crack by polar solvents	Microbial/fungal damage	Physical radiation damage
Polyurethane (PU)	-	0	-	+*
Eisele Hydro/ProWeld	+	0	++	+
Polyamide (PA)	0/+	+	+	0
PFA	++	++	++	(UV) +

++	Excluded damage
+	Damage rarely
0	Damage occasionally
-	Damage often

*PU bilged stronger than Eisele Hydro

Temperatures

Temperature - Material



302 °F (150°C)	- PFA, PTFE (Teflon) at zero pressure up to 500 °F (260°C)
248 °F (120°C)	- FEP
212 °F (100°C)	- PA
194 °F (90°C)	- PU-Ether-based (Eisele ProWeld)
158 °F (70°C)	- PU-Ester-based (PU), NBR
140 °F (60°C)	- PE, PVC, PU-Ether-based (Eisele Hydro)
104 °F (40°C)	- PE

Working pressure

The operating pressure is obtained by dividing the burst pressure by a safety factor. Safety factors are between 2 to 4 depending on the application.

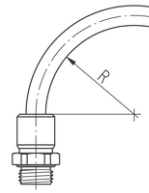
Example:

- 435 psi (30 bar) burst pressure at 20 ° C results in an operating pressure of
- 145 psi (10 bar) with a safety factor of 3,
 - 217 psi (15 bar) with a safety factor of 2

Eisele usually provides the burst pressure. Every customer can choose his required safety factor.

Plastic tube 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: 14 to 104°F (-10 to +40 °C)
- Free of plasticizer and halogen

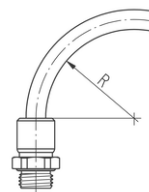


Part no.*	Outside Ø / Inside Ø	Maximum allowable working pressure at 73°F (23°C) (reference value)	min. allowable bend radius	g/m
99004-0402	4 / 2	20 bar (290,1 psi)	20	8,7
99004-4303	4,3 / 3	13 bar (188,5 psi)	20	6,9
99004-0503	5 / 3	15 bar (217,6 psi)	25	11,6
99004-0604	6 / 4	13 bar (188,5 psi)	30	14,5
99004-0806	8 / 6	8 bar (116 psi)	40	20,3
99004-1008	10 / 8	6 bar (87 psi)	60	26
99004-1209	12 / 9	9 bar (130,5 psi)	60	45,6
99004-1210	12 / 10	5 bar (72,5 psi)	85	31,9
99004-1411	14 / 11	8 bar (116 psi)	90	54,3
99004-1512	15 / 12	7 bar (101,5 psi)	90	58,7
99004-1613	16 / 13	6 bar (87 psi)	90	63

* Please add the desired tube color directly behind the part no.: 99XXX-XXXXCOLOUR – e.g. 99004-0402RED

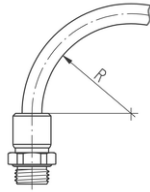
Plastic tube PA

- Made of polyamide (PA)
- Color black (red, blue, green, yellow, natural, brown, orange and grey: specify when placing order; subject to extra charge)
- External calibration; for use with Eisele plug connectors
- Temperature range: -76 to 212 °F (-60 to +100 °C)
- Suitable for vacuum
- Free of PWIS and halogen
- Suitable for fuel
- For automotive industry according to DIN 73378
- Drag chain compliant



Part no.	Outside Ø / Inside Ø	Minimum burst pressure at 68°F (20°C)	Minimum burst pressure at 140°F (60°C)	min. allowable bend radius	g/m
99005-0302	3 / 1,7	105 bar (1522,9 psi)	-	20	4,9
99005-0402	4 / 2	145 bar (2103 psi)	82 bar (1189,3 psi)	20	9,7
99005-4303	4,3 / 3	76 bar (1102,3 psi)	43 bar (623,7 psi)	20	7,7
99005-0503	5 / 3	112 bar (1624,4 psi)	64 bar (928,2 psi)	25	12,9
99005-0604	6 / 4	89 bar (1290,8 psi)	51 bar (739,7 psi)	30	16,2
99005-0805	8 / 5	93 bar (1348,9 psi)	53 bar (768,7 psi)	40	31,5
99005-0806	8 / 6	63 bar (913,7 psi)	36 bar (522,1 psi)	40	22,7
99005-0906	9 / 6	89 bar (1290,8 psi)	51 bar (739,7 psi)	45	36,1
99005-1008	10 / 8	49,5 bar (717,9 psi)	28 bar (406,1 psi)	60	29,1
99005-1209	12 / 9	63 bar (913,7 psi)	36 bar (522,1 psi)	60	51
99005-1210	12 / 10	39,5 bar (572,9 psi)	22,5 bar (326,3 psi)	85	35,6
99005-1411	14 / 11	53 bar (768,7 psi)	30 bar (435,1 psi)	80	60,7
99005-1512	15 / 12	49,5 bar (717,9 psi)	28 bar (406,1 psi)	90	65,5
99005-1613	16 / 13	46 bar (667,2 psi)	26 bar (377,1 psi)	90	70,4
99005-1814	18 / 14	51 bar (739,7 psi)	29 bar (420,6 psi)	100	103,5
99005-2016	20 / 16	49 bar (710,7 psi)	28 bar (406,1 psi)	120	116,5

Plastic tube PU

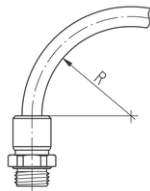


- Made of polyester-polyurethane (PU)
- Color black (red, blue, green, yellow, natural, brown, orange and grey: specify when placing order; subject to extra charge)
- External calibration; for use with Eisele plug connectors
- Temperature range: -31 to 158 °F (-35 to +70 °C)
- Free of plasticizers, PWIS, copper and PTFE
- Impervious to buckling and drag chain compliant
- Suitable for vacuum

Artikel-Nr.*	Outside Ø / Inside Ø	Minimum burst pressure at 68°F (20°C)	Minimum burst pressure at 140°F (60°C)	min. allowable bend radius	g/m
99003-0402	4 / 2,3	45 bar (652,7 psi)	24 bar (348,1 psi)	10	10
99003-0425	4 / 2,5	39 bar (565,6 psi)	23 bar (333,6 psi)	13	10
99003-4303	4,3 / 2,9	36 bar (522,1 psi)	22 bar (319,1 psi)	14	10
99003-0503	5 / 3,1	45 bar (652,7 psi)	23 bar (333,6 psi)	12	16
99003-0604	6 / 3,9	36 bar (522,1 psi)	23 bar (333,6 psi)	20	22
99003-0806	8 / 5,7	32 bar (464,1 psi)	20 bar (290,1 psi)	35	32
99003-1008	10 / 7,5	28 bar (406,1 psi)	16 bar (232,1 psi)	50	42
99003-1208	12 / 8	42 bar (609,2 psi)	26 bar (377,1 psi)	50	78
99003-1209	12 / 9	29 bar (420,6 psi)	17 bar (246,6 psi)	55	62
99003-1411	14 / 11	23 bar (333,6 psi)	15 bar (217,6 psi)	70	75
99003-1611	16 / 11	32 bar (464,1 psi)	21 bar (304,6 psi)	70	132

* Please add the desired tube color directly behind the part no.: 99XXX-XXXXCOLOUR – e.g. 99003-0402RED

Plastic tube Eisele Hydro

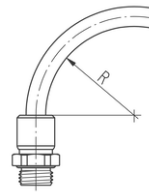


- Made of polyether-polyurethane (PU-H)
- Color imbued: black, blue, red
- External calibration; for use with Eisele plug connectors
- Temperature range: -31 to 140 °F (-35 to +60 °C)
- Free of halogen, plasticizers, PWIS, copper and PTFE
- Impervious to buckling and drag chain compliant
- Resistant 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 68°F (20°C)	Minimum burst pressure at 140°F (60°C)	min. allowable bend radius	g/m
99150-0425	4 / 2,5	33 bar (478,6 psi)	16 bar (232,1 psi)	10	8,5
99150-3925	5/32" (4/2,5)	33 bar (478,6 psi)	16 bar (232,1 psi)	10	8,5
99150-0604	6 / 4	32 bar (464,1 psi)	15 bar (217,6 psi)	10	18,3
99150-6341	1/4" (6,35/4,1)	32 bar (464,1 psi)	15,5 bar (224,8 psi)	10	22
99150-0806	8 / 6	27 bar (391,6 psi)	13 bar (188,5 psi)	21	28,7
99150-7906	5/16" (8/6)	27 bar (391,6 psi)	13 bar (188,5 psi)	21	28,7
99150-9565	3/8" (9,53/6,5)	28 bar (406,1 psi)	13,5 bar (195,8 psi)	25	46
99150-1007	10 / 7	28 bar (406,1 psi)	13 bar (188,5 psi)	28	46,5
99150-1208	12 / 8	32 bar (464,1 psi)	16 bar (232,1 psi)	33	72,9
99150-2785	1/2" (12,7/8,5)	29 bar (420,6 psi)	15,5 bar (224,8 psi)	23	84
99150-1410	14 / 10	27,1 bar (393,1 psi)	13,2 bar (191,4 psi)	33	72,9
99150-5908	5/8" (15,9/10,8)	30 bar (435,1 psi)	14,5 bar (210,3 psi)	38	133
99150-1611	16 / 11	30 bar (435,1 psi)	14 bar (203,1 psi)	38	123
99150-2014	20 / 14	28,8 bar (417,7 psi)	14 bar (203,1 psi)	-	ca. 187

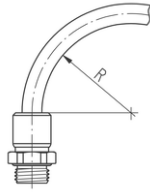
Plastic tube Eisele Hydro | translucent

- Made of polyether-polyurethane (PU-H)
- Color transparent: natural, red, blue
- External calibration; for use with Eisele plug connectors
- Temperature range -31 to 140 °F (-35 to +60 °C)
- 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 68°F (20°C)	Minimum burst pressure at 140°F (60°C)	min. allowable bend radius	g/m
99151-0425	4 / 2,5	33 bar (478,6 psi)	16 bar (232,1 psi)	10	8,5
99151-3925	5/32" (4/2,5)	33 bar (478,6 psi)	16 bar (232,1 psi)	10	8,5
99151-0604	6 / 4	32 bar (464,1 psi)	15 bar (217,6 psi)	10	18,3
99151-6341	1/4" (6,35/4,1)	32 bar (464,1 psi)	15,5 bar (224,8 psi)	10	22
99151-0806	8 / 6	27 bar (391,6 psi)	13 bar (188,5 psi)	21	28,7
99151-7906	5/16" (8/6)	27 bar (391,6 psi)	13 bar (188,5 psi)	21	28,7
99151-9565	3/8" (9,53/6,5)	28 bar (406,1 psi)	13,5 bar (195,8 psi)	25	46
99151-1007	10 / 7	28 bar (406,1 psi)	13 bar (188,5 psi)	28	46,5
99151-1208	12 / 8	32 bar (464,1 psi)	16 bar (232,1 psi)	33	72,9
99151-2785	1/2" (12,7/8,5)	29 bar (420,6 psi)	15,5 bar (224,8 psi)	23	84
99151-1410	14 / 10	27,1 bar (393,1 psi)	13,2 bar (191,4 psi)	33	72,9
99151-5908	5/8" (15,9/10,8)	30 bar (435,1 psi)	14,5 bar (210,3 psi)	38	133
99151-1611	16 / 11	30 bar (435,1 psi)	14 bar (203,1 psi)	38	123
99151-2014	20 / 14	28,8 bar (417,7 psi)	14 bar (203,1 psi)	-	ca. 187

Plastic tube Eisele ProWeld



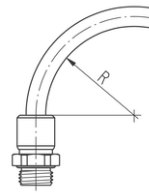
- Made of polyether-polyurethane
- Color black (red, blue, green, white)
- External calibration; for use with Eisele plug connectors
- Operating temperature: -31 to 194 °F (-35 to +90 °C)
- Suitable for compressed air, water
- Free of plasticizers, PWIS, halogen, copper and PTFE
- Impervious to buckling 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

Artikel-Nr.*	Outside Ø / Inside Ø	Minimum burst pressure at 68°F (20°C)	Minimum burst pressure at 140°F (60°C)	min. allowable bend radius	g/m
99118-0201	2 / 1	35 bar (507,6 psi)	-	-	-
99118-0302	3 / 2	45 bar (652,7 psi)	-	-	-
99118-0402	4 / 2	57 bar (826,7 psi)	40 bar (580,2 psi)	6,5	12,2
99118-3902	5/32" (4/2)	57 bar (826,7 psi)	40 bar (580,2 psi)	10	12,2
99118-4303	4,3/3	38 bar (551,1 psi)	-	-	-
99118-0603	6 / 3	57 bar (826,7 psi)	40 bar (580,2 psi)	8,5	27,5
99118-0604	6 / 4	40 bar (580,2 psi)	22 bar (319,1 psi)	12	22
99118-6343	1/4" (6,35/4,32)	41 bar (594,7 psi)	-	-	-
99118-0804	8 / 4	63 bar (913,7 psi)	37 bar (536,6 psi)	10	48,3
99118-7904	5/16" (8/4)	63 bar (913,7 psi)	37 bar (536,6 psi)	10	48,3
99118-0855	8 / 5,5	34 bar (493,1 psi)	18 bar (261,1 psi)	18	32,5
99118-7955	5/16" (8/5,5)	34 bar (493,1 psi)	18 bar (261,1 psi)	21	32,5
99118-9563	3/8" (9,53/6,35)	43 bar (623,7 psi)	-	-	-
99118-1006	10 / 6	49 bar (710,7 psi)	28 bar (406,1 psi)	15	64,5
99118-1208	12 / 8	34 bar (493,1 psi)	21 bar (304,6 psi)	24	80,8
99118-2781	1/2" (12,7/8,13)	47 bar (681,7 psi)	-	-	-
99118-1410	14 / 10	33 bar (478,6 psi)	18 bar (261,1 psi)	38	97,8
99118-1611	16 / 11	37 bar (536,6 psi)	19 bar (275,6 psi)	44	136,9
99118-2014	20 / 14	35 bar (507,6 psi)	ca. 16 bar (232,1 psi)	70	ca. 200

* Please add the desired tube color directly behind the part no.: 99XXX-XXXXCOLOUR – e.g. 99118-0402RED

Plastic tube PTFE

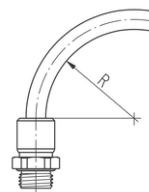
- Made of polytetrafluoroethylene (PTFE, Teflon)
- Color natural
- External calibration; for use with Eisele plug connectors
- Temperature range: -310 to 500 °F (-190 to +260 °C)
- Free of plasticizers, PWIS and copper
- Resistant to UV and solvents
- FDA compliant according to 21 CFR 177.2600
- Flame-retardant according to UL94 V0 to V2



Part no.	Outside Ø / Inside Ø	Minimum burst pressure at 68°F (20°C)	Minimum burst pressure at 122°F (50°C)	min. allowable bend radius	g/m
99001-0335	3 / 0,35	20 bar (290,1 psi)	17,5 bar (253,8 psi)	35	-
99001-0305	3 / 0,5	-	-	-	-
99001-0307	3 / 0,7	-	-	-	-
99001-0310	3 / 1	-	-	-	-
99001-0315	3 / 1,5	15 bar (217,6 psi)	13 bar (188,5 psi)	25	-
99001-0402	4 / 2	80 bar (1160,3 psi)	69 bar (1000,8 psi)	16	20,3
99001-4303	4,3 / 3	36 bar (522,1 psi)	21 bar (304,6 psi)	35	16,1
99001-0503	5 / 3	60 bar (870,2 psi)	52 bar (754,2 psi)	25	27,1
99001-0604	6 / 4	48 bar (696,2 psi)	31 bar (449,6 psi)	35	33,8
99001-0805	8 / 5	56 bar (812,2 psi)	48 bar (696,2 psi)	-	-
99001-0806	8 / 6	36 bar (522,1 psi)	31 bar (449,6 psi)	65	47,3
99001-0906	9 / 6	48 bar (696,2 psi)	31 bar (449,6 psi)	55	76
99001-1008	10 / 8	28 bar (406,1 psi)	24 bar (348,1 psi)	100	60,8
99001-1209	12 / 9	40 bar (580,2 psi)	34 bar (493,1 psi)	100	106,4
99001-1210	12 / 10	21 bar (304,6 psi)	18 bar (261,1 psi)	100	-
99001-1411	14 / 11	28 bar (406,1 psi)	18 bar (261,1 psi)	140	126,7
99001-1613	16 / 13	24 bar (348,1 psi)	21 bar (304,6 psi)	175	152

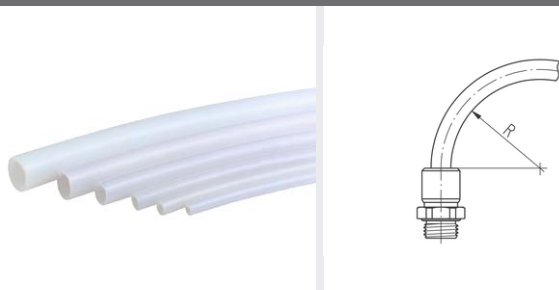
Plastic tube FEP

- Made of fluorinated ethylene-propylene copolymer (FEP)
- Color natural, transparent
- External calibration; for use with Eisele plug connectors
- Temperature range: -31 to 248 °F (-35 to +120 °C)
- Very flexible
- Free of plasticizer and copper
- 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
- Suitable for vacuum



Part no.	Outside Ø / Inside Ø	Minimum burst pressure at 68°F (20°C)	Minimum burst pressure at 140°F (60°C)	min. allowable bend radius	g/m
99501-0402	4 / 2	84 bar (1218,3 psi)	70 bar (1015,3 psi)	25	21
99501-0503	5 / 3	60 bar (870,2 psi)	52 bar (754,2 psi)	35	28
99501-0604	6 / 4	50 bar (725,2 psi)	40 bar (580,2 psi)	40	35
99501-0806	8 / 6	36 bar (522,1 psi)	29 bar (420,6 psi)	65	49
99501-0906	9 / 6	-	-	55	79
99501-1008	10 / 8	28 bar (406,1 psi)	22 bar (319,1 psi)	100	63
99501-1209	12 / 9	-	-	100	110

Plastic tube PFA



- Made of Perfluoro Alkoxyalkane (PFA)
- Color natural
- External calibration; for use with Eisele plug connectors
- Temperature range: -4 to 302 °F (-20 to +150 °C)
- Free of plasticizer and PWIS
- Resistant to UV, hydrolysis, microbes and solvents
- Stable against thermal degradation
- Resistant to weld spatter
- FDA compliant according to 21 CFR 177.2600
- Suitable for vacuum

Part no.	Outside Ø / Inside Ø	Minimum burst pressure at 68°F (20°C)	Minimum burst pressure at 140°F (60°C)	min. allowable bend radius	g/m
99221-0425	4 / 2,5	61 bar (884,7 psi)	50 bar (725,2 psi)	25	12
99221-3925	5/32" (4/2,5)	61 bar (884,7 psi)	50 bar (725,2 psi)	25	12
99221-0403	4 / 3	41 bar (594,7 psi)	34 bar (493,1 psi)	35	12
99221-0604	6 / 4	54 bar (783,2 psi)	44 bar (638,2 psi)	40	34
99221-6339	1/4" (6,35/3,9)	61 bar (884,7 psi)	50 bar (725,2 psi)	40	34
99221-0806	8 / 6	41 bar (594,7 psi)	34 bar (493,1 psi)	70	49
99221-7906	5/16 (8/6)	41 bar (594,7 psi)	34 bar (493,1 psi)	70	49
99221-0906	9 / 6	54 bar (783,2 psi)	44 bar (638,2 psi)	65	49
99221-9563	3/8" (9,53/6,38)	53 bar (768,7 psi)	42 bar (609,2 psi)	65	49
99221-1007	10 / 7	59 bar (855,7 psi)	40 bar (580,2 psi)	75	87
99221-1209	12 / 9	41 bar (594,7 psi)	34 bar (493,1 psi)	100	125
99221-1210	12 / 10	27 bar (391,6 psi)	22 bar (319,1 psi)	150	-
99221-1412	14 / 12	23 bar (333,6 psi)	17 bar (246,6 psi)	-	-
99221-1614	16 / 14	20 bar (290,1 psi)	15 bar (217,6 psi)	-	-
99221-2795	1/2" (12,7/8,5)	40 bar (580,2 psi)	33 bar (478,6 psi)	110	125

Plastic tube PVDF



- Made of Polyvinylidene fluoride (PVDF)
- Color natural
- External calibration; for use with Eisele plug connectors
- Temperature range: -40 to +150 °C (-40 to 302 °F)
- Resistant to UV
- Non flammable (according to UL94 V-0)
- Resistant to a wide range of chemicals
- Low gas permeability

Artikel-Nr.*	Outside Ø* / Inside Ø	Maximum allowable working pressure at 73°F (23°C) (reference value)	min. allowable bend radius	g/m
99401-0402	4 / 2	166 bar (2407,6 psi)	60	17
99401-0604	6 / 4	100 bar (1450,4 psi)	75	28
99401-0806	8 / 6	71 bar (1029,8 psi)	85	39
99401-1008	10 / 8	55 bar (797,7 psi)	100	50
99401-1210	12 / 10	45 bar (652,7 psi)	125	62

Tube cutter

- For compressed-air tubes with outer- \varnothing 14 mm
- Material plastic black / steel
- Packaging unit 1 piece



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

Tube cutter

- For compressed-air tubes with outer- \varnothing 22 mm
- Material zinc die-casting / steel
- Packaging unit 1 piece



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

Material properties - nickel-plated brass

What are suitable applications for brass fittings?

Nickel-plated brass fittings are used primarily with compressed air or vacuum. The convenient solid metal fittings are ideal for use in all standard pneumatic applications, especially those requiring reliable and robust solutions.

What areas of application exist?

Applications include for example industrial sectors such as woodworking or vacuum technology. Woodworking applications require robust and dirt-resistant fittings. The solid metal version is an ideal product in this case. Vacuum technology on the other hand requires an optimum seal. Eisele recommends checking the use of the fittings under the actual specific conditions.



Material properties - dezincification resistant brass

What is dezincification?

Dezincification is a long-known process that can lead to corrosion damage on cooling water fittings. In rare cases it is observed on brass components that are in constant contact with water. The colour of the corroded area changes to reddish copper, indicating that it no longer has any inherent strength.

Explained simply, the main alloy components of the brass dissolve: copper and zinc oxidize with water-soluble salts. The zinc is carried away by the cooling water, while the copper accumulates as a sponge-like mass. This process generally occurs only in soft water with a high chloride content with low carbonate hardness.

What is the solution offered by Eisele?

Dezincification can be prevented by the right choice of materials and proper handling of the components (compliance with tightening torques, for example). Eisele recommends using the products of the MULTILINE. They are flow-optimised and are manufactured from a special dezincification-resistant brass alloy.

Dezincification resistance is tested in accordance with ISO 6509. The MULTILINE is highly resistant in industrial water, steam, various saline solutions and many organic liquids. The material is approved by Lloyd's Register for certain components in shipbuilding. The nickel-free fittings are an economical alternative to stainless steel solutions.

The adaptive insets of the MULTILINE are also available in dezincification-resistant brass. They are used in cooling and industrial water applications, in welding technology, robot technology and lubrication systems.

What else is important to know?

The adaptive insets of the MULTILINE made of dezincification-resistant brass were developed for use in closed cooling water circuits. In some cases, stainless steel adaptive insets should be used instead. Eisele therefore recommends checking the use of the fittings under the actual specific conditions. For selection of the right materials one needs to consider not only the media used, but also the ambient conditions such as temperature and atmosphere. Stainless steel adaptive insets are necessary especially in case of pH values below 5. The same applies if ammonia or very high nitrate and chloride content is present in the medium itself, in any cleaners that are used or in the installation environment.

Please note for the use of dezincification resistant brass:

Stress corrosion:

With chloride or ammonia filled water the use of brass is not recommended.

Electrical corrosion:

Please assure that the system does not contain large potential differences if you use brass connectors. Large potential differences will create a galvanic cell. The use of brass is in these cases not recommended.



Material properties - stainless steel

What are suitable applications for stainless steel fittings?

Wherever standard materials such as plastic, brass and aluminium reach their limits in connection technology, the Eisele MULTILINE provides an economical stainless steel solution. Stainless steel features excellent protection against corrosion even with aggressive media and at high temperatures. Stainless steel connection components are therefore very durable and reliable. They can also easily be combined with all other materials. They are also easy to clean, which makes them ideal for use in the environment of hygiene-sensitive areas.

What areas of application exist?

The adaptive insets of the Eisele MULTILINE are also available in stainless steel. Applications include industrial sectors in which cross contamination or contamination with chemicals or micro-organisms must be avoided, for example in the food and pharmaceutical industries. Stainless steel is especially resistant to acidic media and aggressive cleaners.

Which materials are recommended by Eisele?

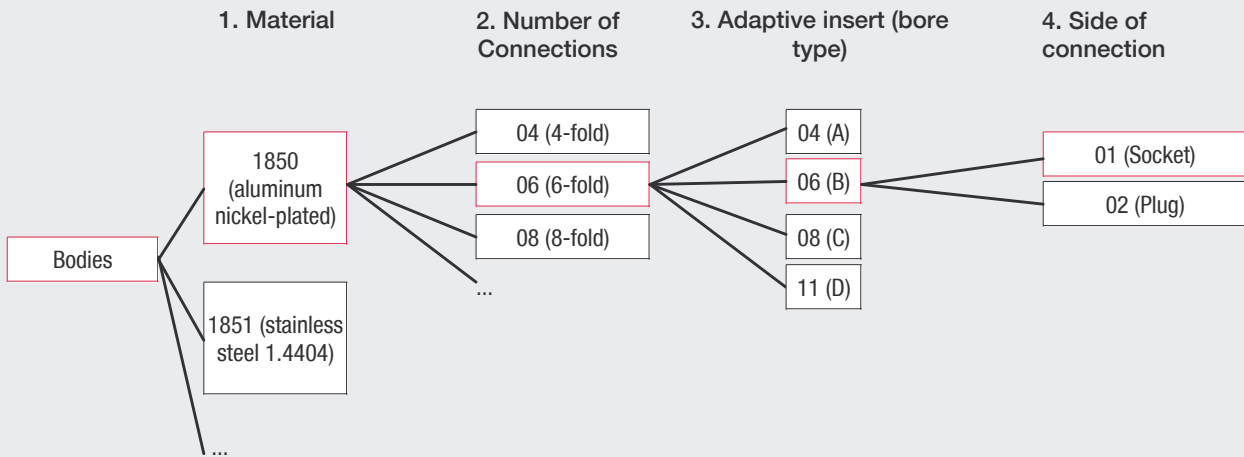
For applications with increased corrosion protection requirements we recommend use of the material AISI 316L (1.4404). The adaptive inserts of the MULTILINE are manufactured exclusively of high-grade stainless steel AISI 316L (1.4404). Eisele recommends checking the use of the fittings under the actual specific conditions. On request, we also offer FDA-compliant FKM seals.

The experts at Eisele will be glad to assist you in selecting suitable adaptive insets.



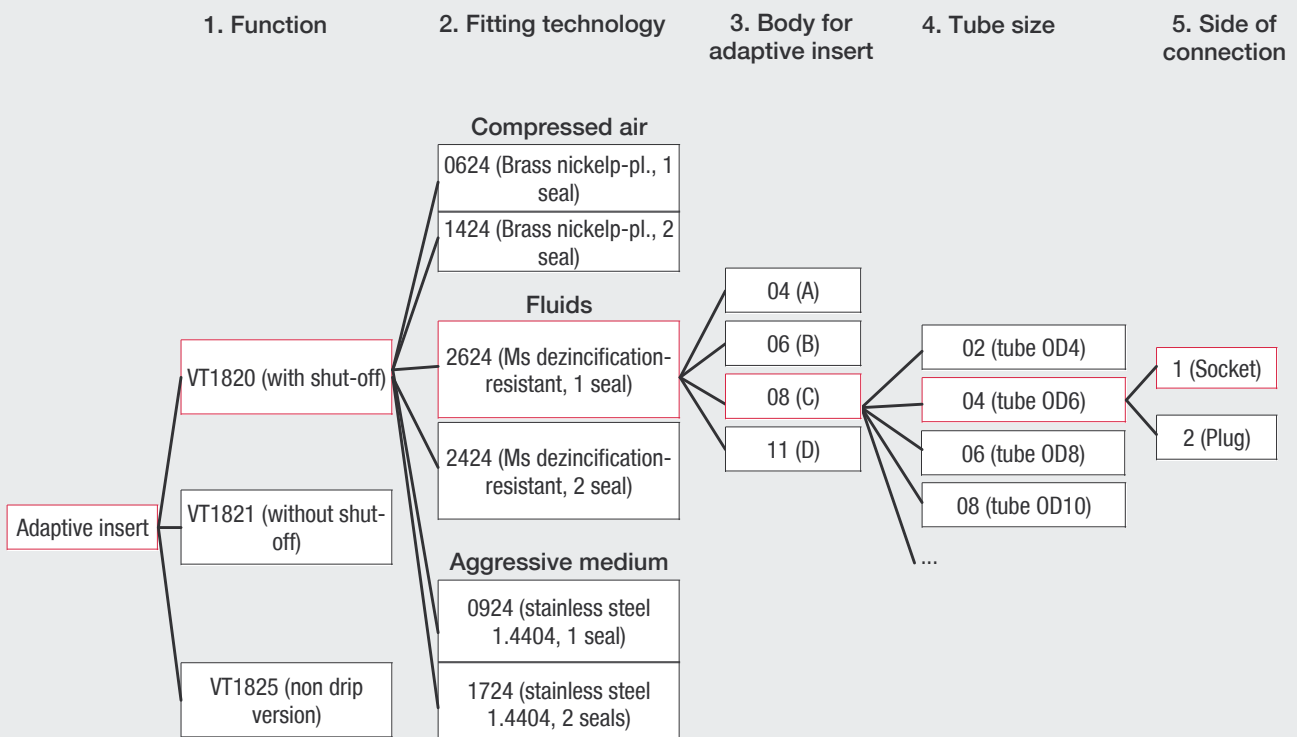
Decision diagram: Body

Example: **1850 - 06 06 01** corresponds to a connection socket made of aluminium chemically nickel-plated for 6 connections with adaptive inset size 06 (bore type B).



Decision diagram: Adaptive insert

Example: **VT1820 - 2624 08 04 1** corresponds to an adaptive insert with shut-off made of dezincification-resistant brass, for a base body with adaptive insert size 08, with a plug connector for a tube with AD6, for a socket



Additional information

Materials

Eisele manufactures and supplies in accordance to the directives 2011/65 / EU (RoHS). Possible exceptions are marked on our documents (order confirmation, delivery note, invoice).

Europe		USA		Japan
EN		AISI	ASTM (UNS)	JIS
No. / Name	Short name			
1.4301	X5CrNi18-10	304	S 30400	SUS 304
1.4305	X8CrNiS18-9	303	S 30300	SUS 303
1.4310	X10CrNi18-8	301	S 30100	SUS 301
1.4404	X2CrNiMo17-12-2	316 L	S 31603	SUS 316L
1.4571	X6CrNiMoTi17-12-2	316 Ti	S 31635	SUS 316Ti
AW-2007	AlCu4PbMgMn	-	-	-
AW-2011	AlCu6BiPb	-	-	-
AW-6082	AlSi1MgMn	-	-	-
AA 2015	AlCuMgSn	-	-	-
CW602N	CuZn36Pb2As	-	C35330	-
CW614N	CuZn39Pb3	-	C38500	C3603
CW724R	CuZn21Si3P	-	C69300	-

Notice:

Some of the metal materials we use according to EN can only be compared approximately with the other material standards (USA, Japan).

The interchangeability of the compared materials must be considered on a case-by-case basis.

Relative pressure

In the catalogue bar is used as the unit for the working pressure range.

bar	Pa	psi
-0,95	-0,95 x 10 ⁵	-13,8
-0,8	-0,8 x 10 ⁵	-11,6
0	0 x 10 ⁵	0,0
0,5	0,5 x 10 ⁵	7,3
1	1 x 10 ⁵	14,5
6	6 x 10 ⁵	87,0
10	10 x 10 ⁵	145,0
15	15 x 10 ⁵	217,6
16	16 x 10 ⁵	232,1
24	24 x 10 ⁵	348,1
25	25 x 10 ⁵	362,6
30	30 x 10 ⁵	435,1

Temperature

In the catalogue °C is used as the unit for the working temperature range.

°C	°F
-60	-76
-40	-40
-20	-4
0	32
20	68
40	104
60	140
80	176
100	212
120	248
200	392
250	482

Dimension

All information about lengths and diameters in the catalog are given in millimeters (mm). Based on the following data a conversion can be done

1 mm = 0,04 Zoll (Inch)
25,4 mm = 1 Zoll (Inch)

Reservation: The validity of these general information cannot be guaranteed.

Flow rate

For each size of the adaptive inserts the following flow rates were simulated:

VT1820-...

Article number	Tube outer diameter	Flow rate (air) [l/min]	Flow rate (water) [l/min]
VT1820-XXXXXX02X	4 (5/32")	120	1,6
VT1820-XXXXXX04X	6	450	6
VT1820-XXXXXX63X	6,35 (1/4")	580	8
VT1820-XXXXXX06X	8 (5/16")	945	12,5
VT1820-XXXXXX95X	9,53 (3/8")	1245	17
VT1820-XXXXXX08X	10	1670	23
VT1820-XXXXXX09X	12	2240	31
VT1820-XXXXXX11X	14	2655	37

VT1825-...

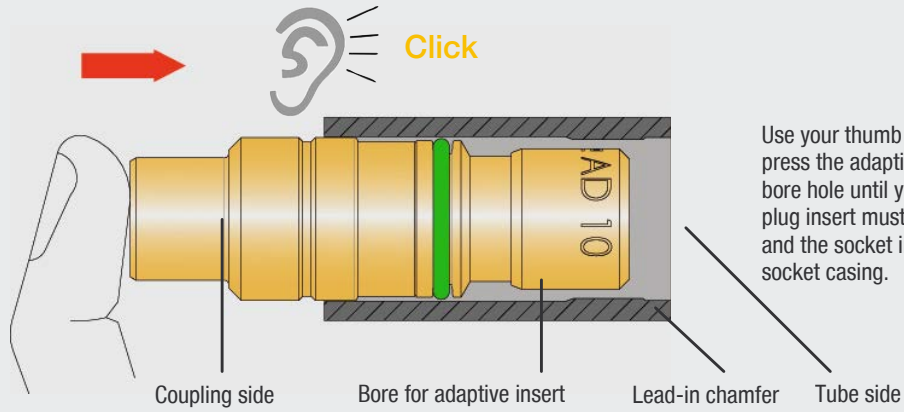
Article number	Tube outer diameter	Flow rate (water) [l/min]
VT1825-XXXXXX02X	4,00 (5/32")	1,6
VT1825-XXXXXX04X	6,00	5,5
VT1825-XXXXXX63X	6,35 (1/4")	6,0
VT1825-XXXXXX06X	8,00 (5/16")	7,5
VT1825-XXXXXX95X	9,53 (3/8")	15,5
VT1825-XXXXXX08X	10,00	19,0

Differential pressures for adaptive inserts with shut-off VT1820 -...

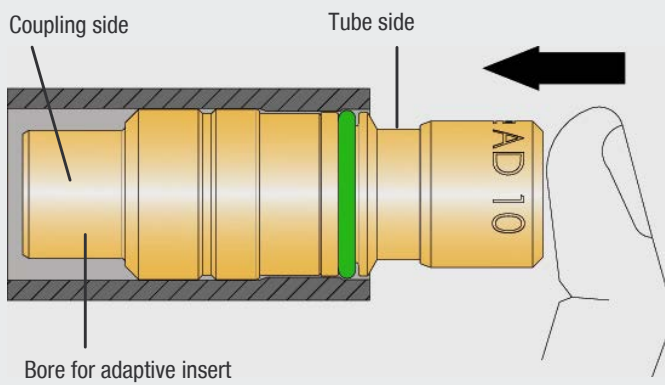
Adaptive insert with bore type	Maximum permissible differential pressure during coupling
A	8 bar (116 psi)
B	5 bar (72 psi)
C	6 bar (87 psi)
D	3 bar (43 psi)

Mounting and Dismounting of adaptive insets

Mounting



Dismounting



Socket



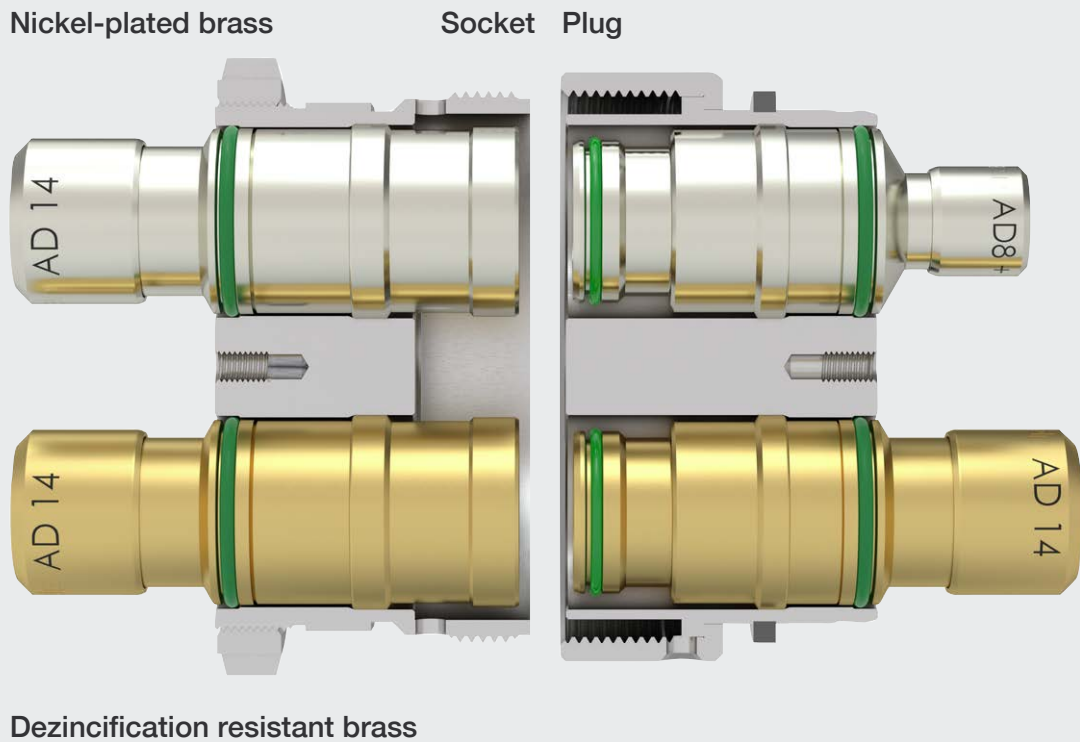
Plug



Combination of adaptive inserts with different tube sizes

Note

Adaptive inserts with different tube sizes can be combined if they have the same bore type (A, B, C, D) and the same function (without shut-off, with shut-off, drip-free). There is **no need of a separate tube reduction** that extends the total length of the coupling.



Example for the combination of different tubes

	Socket, for tube:	Plug, for tube:
Brass nickel-plated, above	OD14	OD8
Brass dezincification-resistant, below	OD14	OD14

Type designation	Page
A	
Adaptive inset non-drip, 1 seal	36-37
Adaptive inset non-drip, 2 seals	36-37
Adaptive inset with shut-off 1 seal	30,32,34
Adaptive inset with shut-off, 1 seal	34
Adaptive inset with shut-off, 2 seals	31,33,35
Adaptive inset without shut-off, 1 seal	24,26,28
Adaptive inset without shut-off, 2 seals	25,27,29
B	
Body plug	42-43
Body socket	42-43
C	
Circular connector M12	20-21
Closure plug	50-51
Color coding	52
I	
Industrial connector plug	45
Industrial connector socket with mounting handle	45
P	
Plastic tube Eisele Hydro	58-59
Plastic tube Eisele ProWeld	60
Plastic tube FEP	61
Plastic tube PA	57
Plastic tube PE	57
Plastic tube PFA	62
Plastic tube PTFE	61
Plastic tube PU	58
Plastic tube PVDF	62
T	
Tube cutter	63

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SA1394-1104	52	VT1820-092408631	34	VT1820-242408081	33
SA1394-1106	52	VT1820-092408632	34	VT1820-242408082	33
SA1394-1108	52	VT1820-092408951	34	VT1820-242411091	33
SA1394-1109	52	VT1820-092408952	34	VT1820-242411092	33
SA1394-1111	52	VT1820-092411061	34	VT1820-242411111	33
SA1394-1112	52	VT1820-092411062	34	VT1820-242411112	33
SA1394-1202	52	VT1820-092411091	34	VT1820-262404021	32
SA1394-1204	52	VT1820-092411092	34	VT1820-262404022	32
SA1394-1206	52	VT1820-092411111	34	VT1820-262404041	32
SA1394-1208	52	VT1820-092411112	34	VT1820-262404042	32
SA1394-1209	52	VT1820-142404021	31	VT1820-262406021	32
SA1394-1211	52	VT1820-142404022	31	VT1820-262406022	32
SA1394-1212	52	VT1820-142404041	31	VT1820-262406041	32
SA1394-1302	52	VT1820-142404042	31	VT1820-262406042	32
SA1394-1304	52	VT1820-142406021	31	VT1820-262406061	32
SA1394-1306	52	VT1820-142406022	31	VT1820-262406062	32
SA1394-1308	52	VT1820-142406041	31	VT1820-262406631	32
SA1394-1309	52	VT1820-142406042	31	VT1820-262406632	32
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VT1820-062411062	30	VT1820-172408062	35	VT1821-062406632	24
VT1820-062411091	30	VT1820-172408081	35	VT1821-062408041	24
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VT1820-092404022	34	VT1820-172411092	35	VT1821-062408082	24
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VT1820-092408062	34	VT1820-242408042	33	VT1821-092404042	28
VT1820-092408081	34	VT1820-242408061	33	VT1821-092406021	28

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VT1821-092406041	28	VT1821-242406021	27	VT1825-262408041	36
VT1821-092406042	28	VT1821-242406022	27	VT1825-262408042	36
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