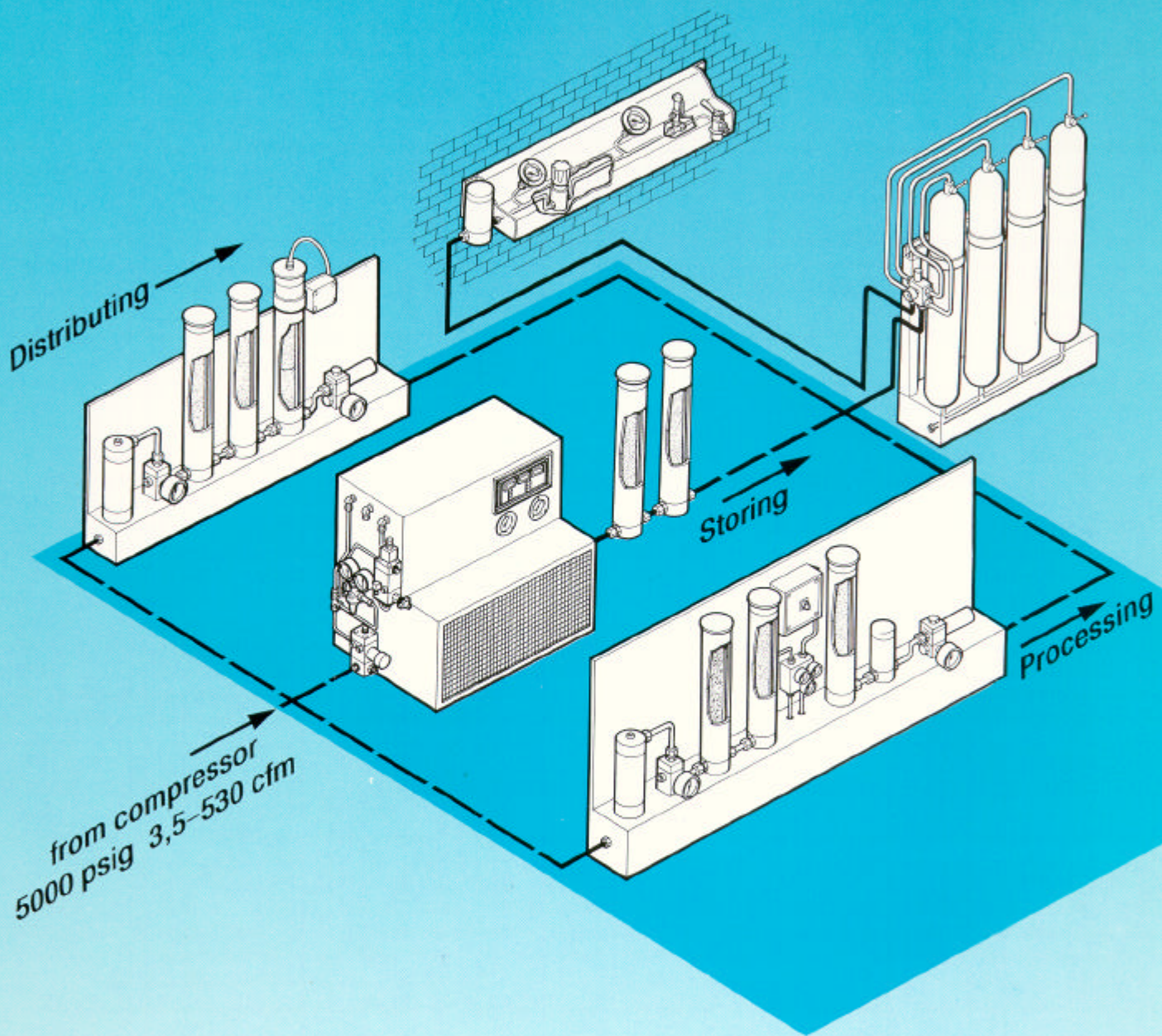


High Pressure Accessories Catalogue



Edition 8550 E/7.92

Supersedes Catalogue No. 8550 E/1.89

30 - 500 bar
500 - 7000 psig

High pressure accessories catalogue

Edition 8550 D/7.92
Revised 07/95

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1. FILLING STATIONS

1.1. GENERAL

Filling stations allow a rapid and controlled filling of breathing air vessels. Please observe the regulations for the installation of a filling station. As a rule the filling panel is not installed on the unit.

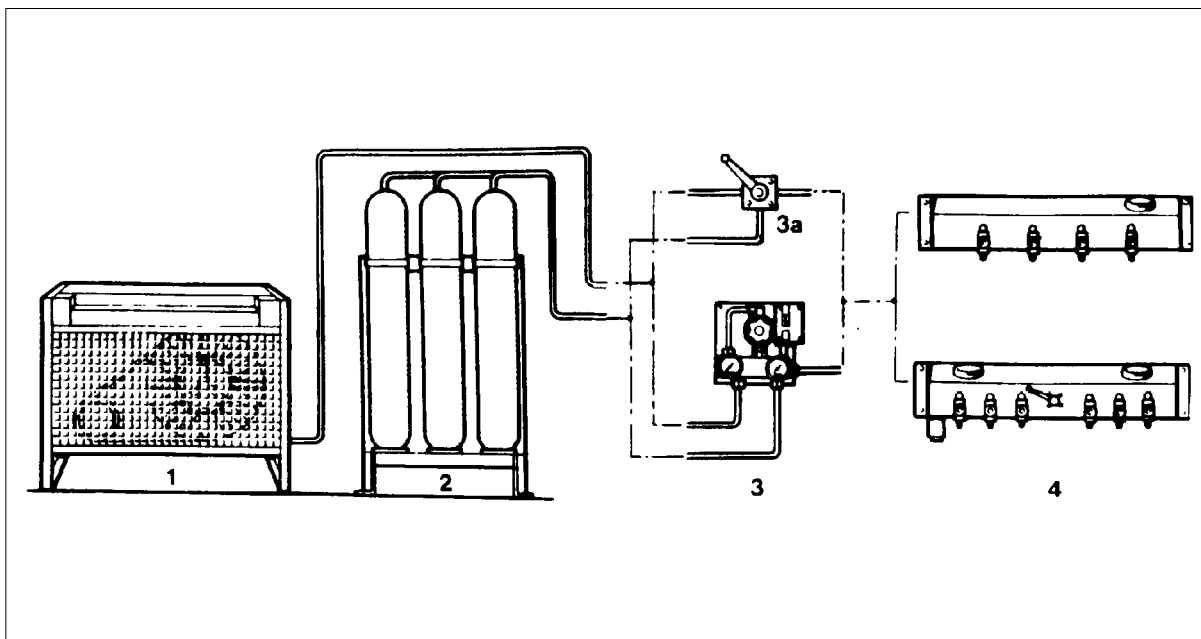


Fig. 1 Filling stations

The main components are:

- **High pressure compressor unit complete (1)** with filtration. We recommend a unit with automatic condensate drain and compressor control to make it possible to operate the unit without surveillance. (See catalogue HD 8).
- **Storage bottle rack (2)** for storing a sufficient quantity of compressed air (see chapter 2).
- **Automatic switching-over device or manual change-over valve (3)**
Only these enable storage bottles to be used to their full advantage. The automatic device consists of a pressure maintaining valve, a check valve and an integrated pressure switch for switching the compressor unit on or off. The use of this automatic device overrides the cascade filling function.
- **Change-over valve (3a)**
When the pressure in the storage bottle rack and the bottle to be filled are equalized, one must manually switch over the valve and always switch on the compressor. This operation is only recommended, if the unit is always operated by the same person.
- **Filling panel (4)**
When using either of the methods described, it is necessary that each filling valve is equipped with an integrated vent.

2. STORAGE BOTTLE RACKS

2.1. STORAGE BOTTLE RACK PN 360 BAR, VERTICAL

The storage bottle racks are designed for storage of compressed medium with almost no limit for storage capacity due to the "module" design.

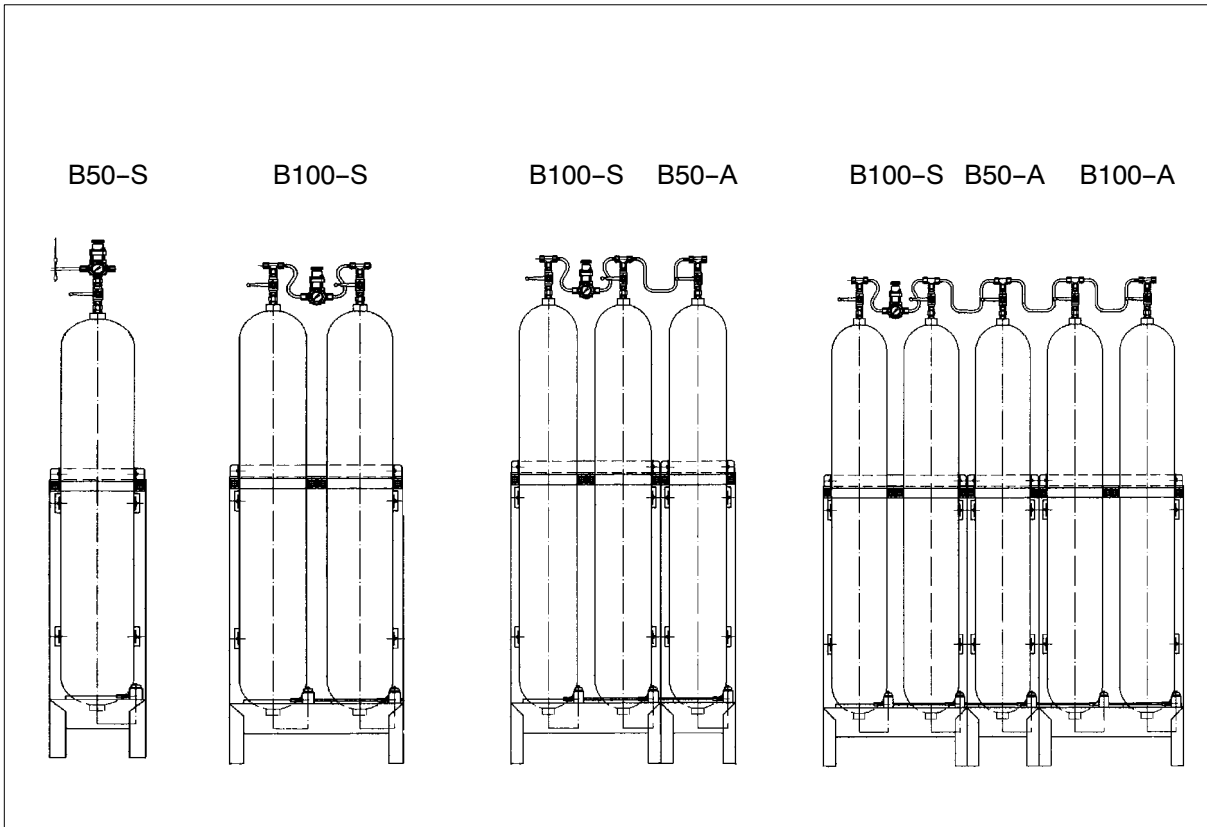


Fig. 2 Basic module and row arrangement varieties

The selection of storage modules depends on the storage volume. Storage banks consist of the following modules.

Storage volume	Modules required
50 l	1 x B 50-S
100 l	1 x B100-S
150 l	1 x B100-S + 1 x B 50-A
200 l	1 x B100-S + 1 x B100-A
250 l	1 x B100-S + 1 x B100-A + 1 x B50-A
300 l	1 x B100-S + 2 x B100-A

B50-S, B100-S: basic storage module with safety valve and pressure gauge
 B50-A, B100-A: flanged storage module without safety valve and pressure gauge

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TECHNICAL DATA

Storage volume per bottle: 50 l

Storage pressure: max. 360 bar

Safety valve: 365 bar

Pipe connection – inlet/outlet

Profile ring tube fitting DIN2353, 10S for outer tube dia 10mm

– alternative 8S for outer tube dia 8mm

Delivery scope:

- The individual modules are delivered separately and assembled on site. All necessary fittings are included in the delivery scope.
- The pressure vessels can be specified in accordance with the regulations of each country for **stationary** pressure vessels.

Order-No.	Module	Height mm	Width mm	Depth mm	Weight kg
072396	B50-S	2018	300	325	120
072398	B50-A	1991	300	325	120
072390	B100-S	1991	600	325	223
072399	B100-A	1991	600	325	223

2.2. STORAGE BOTTLE RACK PN 350 BAR, HORIZONTAL

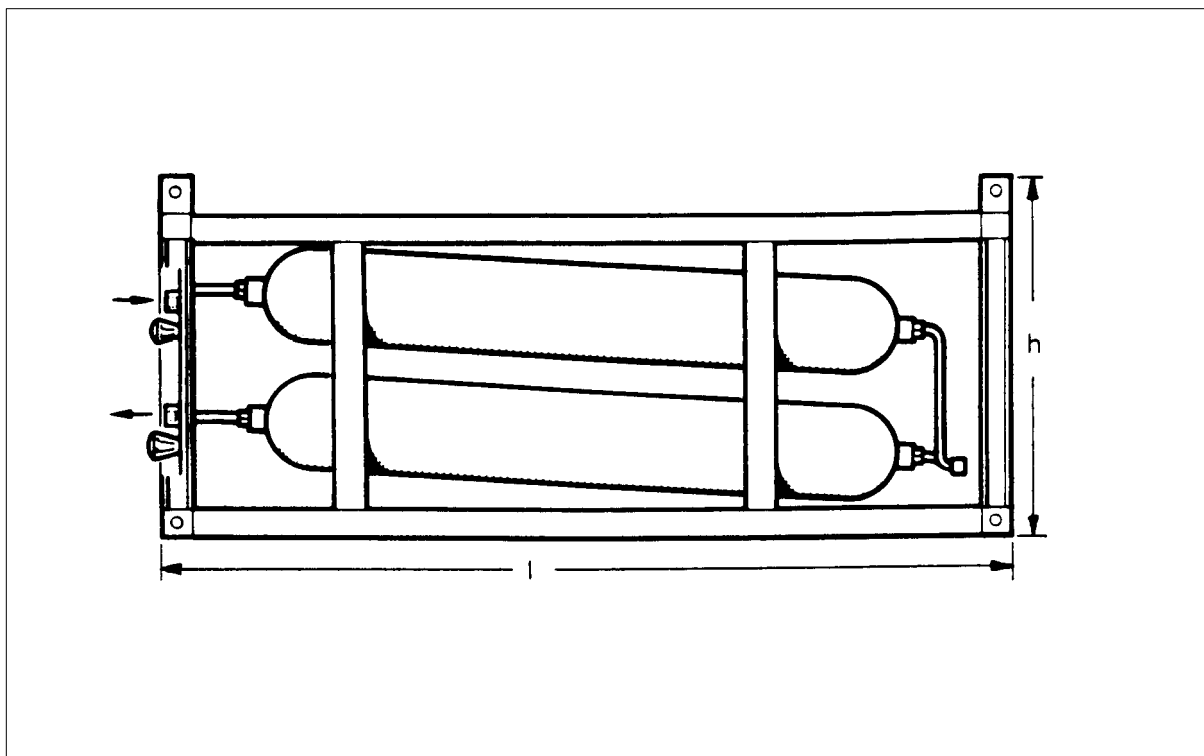


Fig. 3 Storage bottle rack PN 350 bar, horizontal

- Specially designed for Offshore and universal use.
- The pressure vessels can be specified in accordance with the regulations of each country for **stationary or portable** pressure gas vessels.
- The storage bottle racks can be stacked on top of each other (max. 4).

Order-No.	No. of vessels	Length m	Width m	Height m	Weight kg	Storage volume*	
						m ³ /350 bar	m ³ /200 bar
064787**	4 x 50 l	2.20	0.90	0.90	530**	70	40

* free air quantity

** acc. to german regulations

Delivery scope:

Complete and ready for installation; with safety valve, pressure gauge and condensate drain manifold.

(Air connection inlet and outlet – G 3/8 female)

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2.3. PRESSURE VESSEL, STATIONARY

Medium: Compressed
 air, dry;
 nitrogen and
 rare gas

Operating temperature: + 50°C
 Calculated acc. to UVV-AD instructions with
 TÜV-approval for stationary installation

Material: 34 Cr Mo 4

Surface: inside raw
 outside primer
 coating

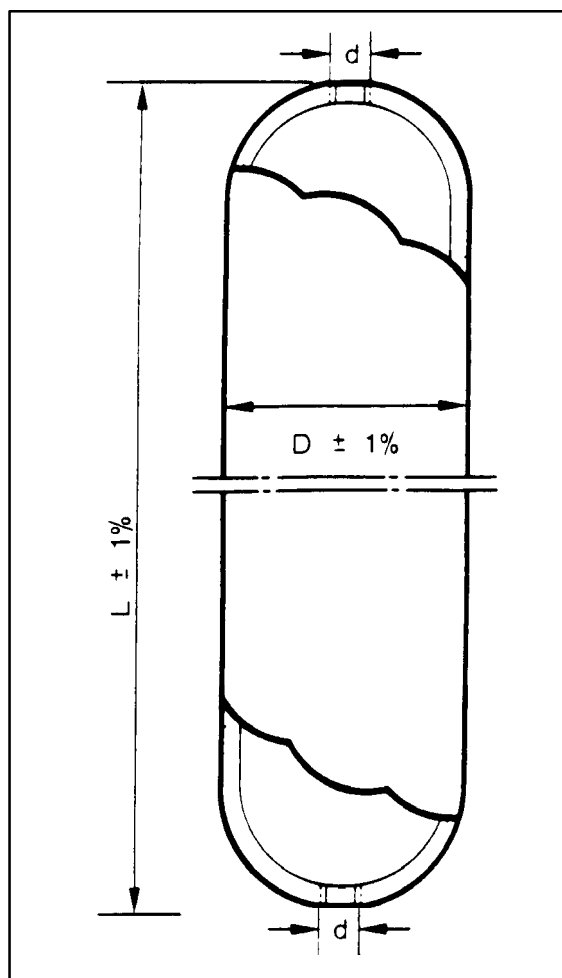


Fig. 4 Pressure vessel, stationary

Order-No.	Volume ltr.	Operat. press. bar	Test pressure bar	L mm	D mm	d	Weight* kg
N 4975	50	360	470	1600	230	G 3/4	100
N 15927	500	270	350	3950	460	G 1;1/2	800

* acc. to german regulations. Manufacturing acc. to other regulations upon request.
 Other vessel sizes also available.

Delivery scope:

Vessel without connections and accessories.

Accessories available:

Order-N° 63484 adapter G 3/4 x G 3/8 + O-ring N 18616

Order-N° 64503 adapter G 3/4 x G 1/4 + O-ring N 18616

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3. FILLING PANEL

3.1. GENERAL

Two basic models are available: for 1 or 2 pressure ranges – see tables overleaf.

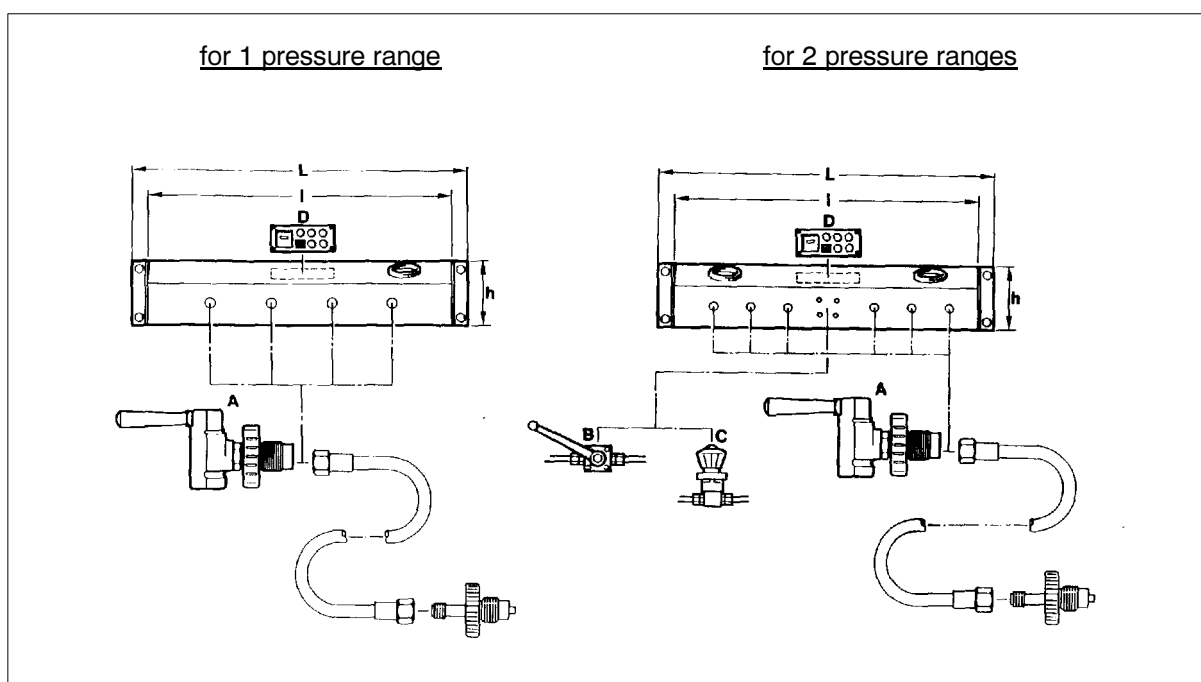


Fig. 5 Filling panels

Technical data:

Filling valve connections with	A	– max. operating pressure 350 bar, DN 3, for hose connections with M 16 x 1.5
Change-over valve vent	B	– max. operating pressure 350 bar, DN 6, with integrated
Pressure regulating valve	C	– with variable pressure from 0.1 to 280 bar
Control unit	D	– for controlling and monitoring the compressor unit

Delivery scope:

Frame complete with 2 brackets with mounting holes.
(Inlet tube: Ø 8 mm).

Panel dimensions in mm	L	l	h	depth
	1140	1100	138	310

3.2. FILLING PANELS FOR 1 PRESSURE RANGE, -KAP SERIES-

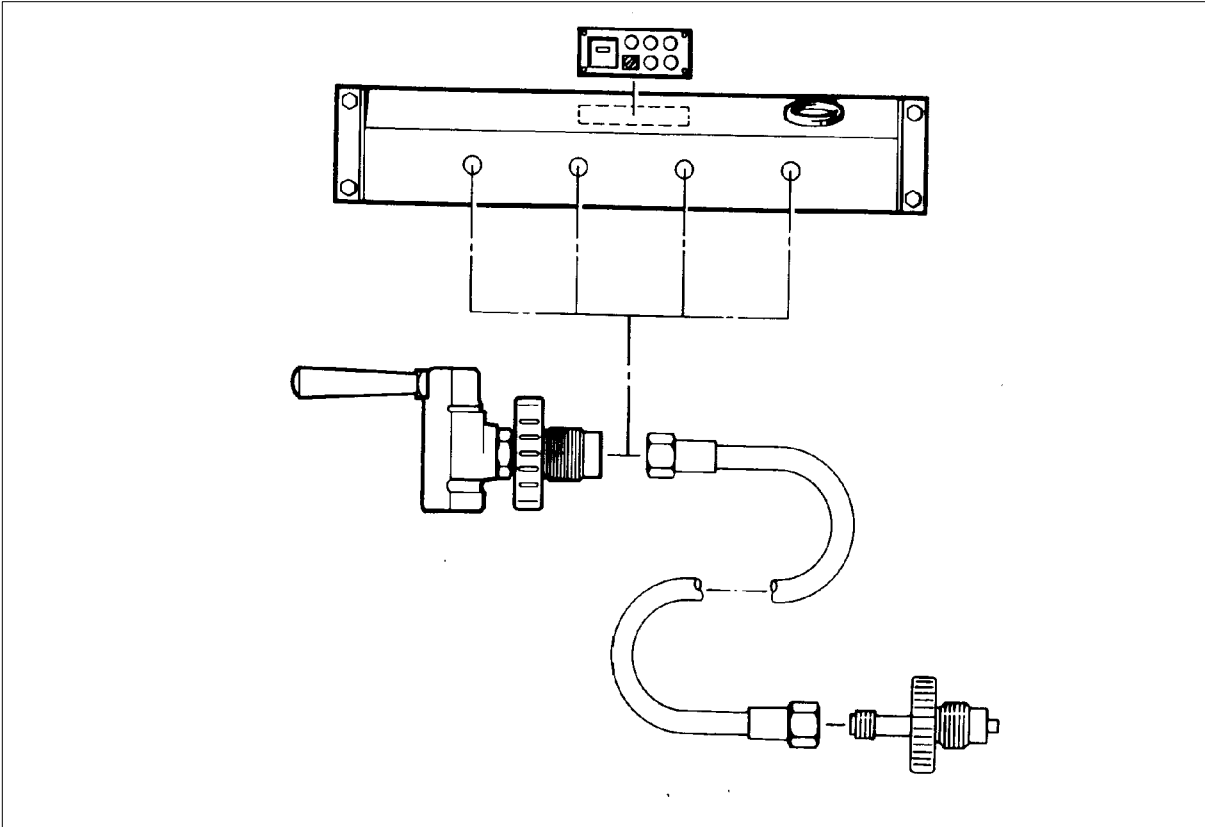


Fig. 6 Filling panel for 1 pressure range, KAP series

Order-No.	Operating press.	Description	Order-No.
068019	PN 200	4 filling valves 4 filling hoses 4 filling connections 4 ISO-filling connections 1 pressure gauge	011826 N 2817 07756 03147 N 2623
068020	PN 300	4 filling valves 4 filling hoses 4 filling connections 1 pressure gauge	011826 N 2817 010912 N 2623
073083	PN 200	with control box 4 filling valves 4 filling hoses 4 filling connections 4 ISO-filling connections 1 pressure gauge 1 COMP-TRONIC control and monitoring unit	 011826 N 2817 07756 03147 N 2623 072024

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Order-No.	Operating press.	Description	Order-No.
073084	PN 300	with control box 4 filling valves 4 filling hoses 4 filling connections 1 pressure gauge 1 COMP-TRONIC control and monitoring unit	011826 N 2817 010912 N 2623 072024
072590	PN 200	4 filling valves 4 filling hoses 4 filling connections 4 ISO-filling connections 1 pressure gauge 1 safety valve	011826 N 2817 07756 03147 N 2623 059410
072597	PN 200	4 filling valves 4 filling hoses 4 filling connections 4 ISO-filling connections 1 pressure gauge 1 safety valve 1 final pressure sensor	011826 N 2817 07756 03147 N 2623 059410 072054
072591	PN 200	with control box 4 filling valves 4 filling hoses 4 filling connections 4 ISO-filling connections 1 pressure gauge 1 COMP-TRONIC control and monitoring unit 1 safety valve 1 final pressure sensor	011826 N 2817 07756 03147 N 2623 072024 059410 072054

3.3. FILLING PANELS FOR 1 PRESSURE RANGE, -VERTICUS SERIES-

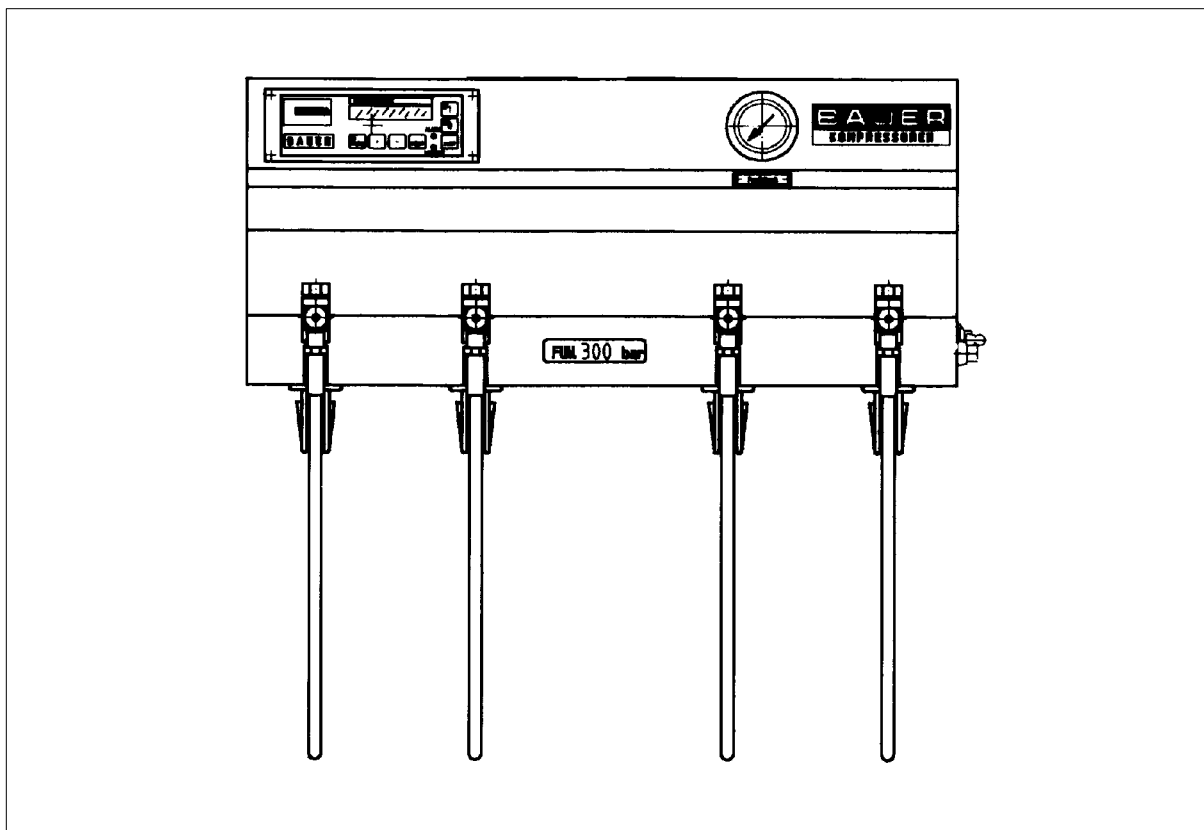


Fig. 7 Filling panel for 1 pressure range, Verticus series

Filling panels with hose connection without control unit			
Order-No.	Operating press.	Description	Order-No.
072402	PN 200	4 filling valves 4 filling hoses 4 filling connections 4 ISO-filling connections 1 pressure gauge	011826 N 2817 07756 03147 N 2623
072403	PN 300	4 filling valves 4 filling hoses 4 filling connections 1 pressure gauge	011826 N 2817 010912 N 2623

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Order-No.	Operating press.	Description	Order-No.
072405	PN 200	with final pressure sensor 4 filling valves 4 filling hoses 4 filling connections 4 ISO-filling connections 1 pressure gauge 1 safety valve 225 bar 1 final pressure sensor 220 bar	011826 N 2817 07756 03147 N 2623 059410 N 19999
072406	PN 200	with pressure regulator 4 filling valves 4 filling hoses 4 filling connections 4 ISO-filling connections 1 pressure gauge 1 pressure regulator 1 safety valve 225 bar	011826 N 2817 07756 03147 N 2623 N 21826 059410
072407	PN 300	with pressure regulator 4 filling valves 4 filling hoses 4 filling connections 1 pressure gauge 1 pressure regulator 1 safety valve 330 bar	011826 N 2817 010912 N 2623 N 21826 059410
Filling panels with direct connection without control unit			
Order-No.	Operating press.	Description	Order-No.
073554	PN 200	4 filling valves 4 ISO-filling connections 1 pressure gauge	06818 08487 N 2623
073555	PN 300	4 filling valves 1 pressure gauge	010918 N 2623
Filling panels with hose connection with control unit			
Order-No.	Operating press.	Description	Order-No.
072245	PN 200	4 filling valves 4 filling hoses 4 filling connections 4 ISO-filling connections 1 pressure gauge 1 COMP-TRONIC control and monitoring unit	011826 N 2817 07756 03147 N 2623 N 19410

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Order-No.	Operating press.	Description	Order-No.
072244	PN 300	4 filling valves 4 filling hoses 4 filling connections 1 pressure gauge 1 COMP-TRONIC control and monitoring unit	011826 N 2817 010912 N 2623 N 19410
072312	PN 200	with final pressure sensor 4 filling valves 4 filling hoses 4 filling connections 4 ISO-filling connections 1 pressure gauge 1 safety valve 225 bar 1 final pressure sensor 220 bar 1 COMP-TRONIC control and monitoring unit	011826 N 2817 07756 03147 N 2623 059410 N 19999 N 19410
072313	PN 200	with pressure regulator 4 filling valves 4 filling hoses 4 filling connections 4 ISO-filling connections 1 pressure gauge 1 pressure regulator 1 safety valve 225 bar 1 COMP-TRONIC control and monitoring unit	011826 N 2817 07756 03147 N 2623 N 21826 059410 N 19410
072314	PN 300	with pressure regulator 4 filling valves 4 filling hoses 4 filling connections 1 pressure gauge 1 pressure regulator 1 safety valve 330 bar 1 COMP-TRONIC control and monitoring unit	011826 N 2817 010912 N 2623 N 21826 059410 N 19410
Filling panels with direct connection with control unit			
Order-No.	Operating press.	Description	Order-No.
073999	PN 200	4 filling valves 1 pressure gauge 1 COMP-TRONIC control and monitoring unit	06818 N 2623 N 19410
074000	PN 300	4 filling valves 1 pressure gauge 1 COMP-TRONIC control and monitoring unit	010918 N 2623 N 19410

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3.4. FILLING PANELS FOR 2 PRESSURE RANGES, -KAP SERIES-

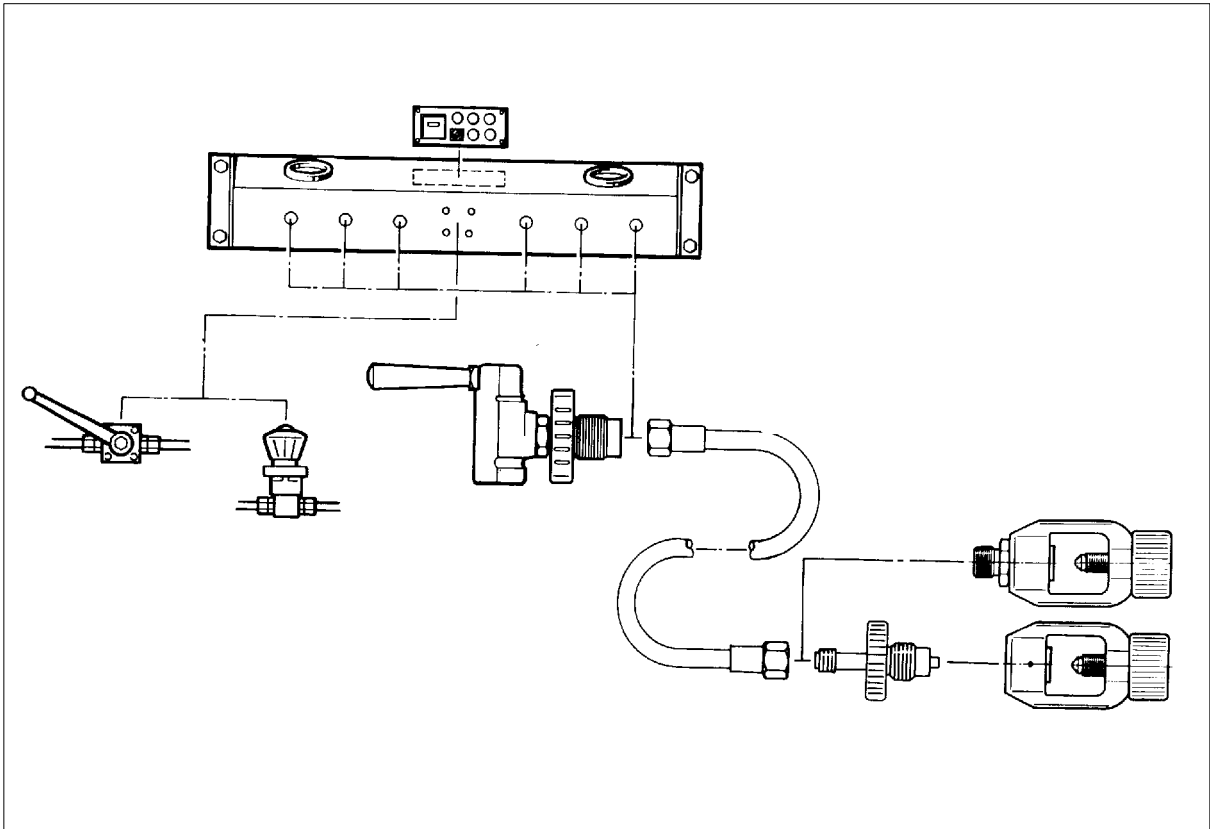


Fig. 8 Filling panel for 2 pressure ranges, KAP series

Order-No.	Operating press.	Description	Order-No.
068023	PN 200 PN 300	without control box 4 filling valves 4 filling hoses 4 filling connections PN 200 2 ISO-filling connections PN 200 2 filling connections PN 300 1 pressure gauge 1 change-over valve 1 vent valve 1 safety valve (225 bar)	011826 N 2817 07756 03147 010912 N 16169 55241 060374 059410

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Order-No.	Operating press.	Description	Order-No.
072598	PN 200 PN 300	without control box 4 filling valves 4 filling hoses 2 filling connections PN 200 2 ISO filling connections PN 200 2 filling connections PN 300 1 pressure gauge 1 change-over valve 1 vent valve 1 safety valve (225 bar) 1 final pressure sensor	011826 N 2817 07756 03147 010912 N 16169 55241 060374 059410 072054
073085	PN 200 PN 300	with control box 4 filling valves 4 filling hoses 4 filling connections PN 200 2 ISO-filling connections PN 200 2 filling connections PN 300 1 pressure gauge 1 change-over valve 1 vent valve 1 safety valve (225 bar) 1 final pressure sensor 1 COMP-TRONIC control and monitoring unit	011826 N 2817 07756 03147 010912 N 16169 55241 060374 059410 072054 072024
068025	PN 200 PN 300	without control box 4 filling valves 4 filling hoses 4 filling connections PN 200 2 ISO-filling connections PN 200 2 filling connections PN 300 1 pressure gauge 1 safety valve (225 bar) 1 pressure regulator	011826 N 2817 07756 03147 010912 N 2623 059410 N3967
073086	PN 200 PN 300	with control box and pressure regulator 4 filling valves 4 filling hoses 2 filling connections PN 200 2 ISO filling connections PN 200 2 filling connections PN 300 1 pressure gauge 1 safety valve (225 bar) 1 pressure regulator 1 COMP-TRONIC control and monitoring unit	011826 N 2817 07756 03147 010912 N 2623 059410 N 3967 072024

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3.5. FILLING PANELS FOR 2 PRESSURE RANGES, -VERTICUS SERIES-

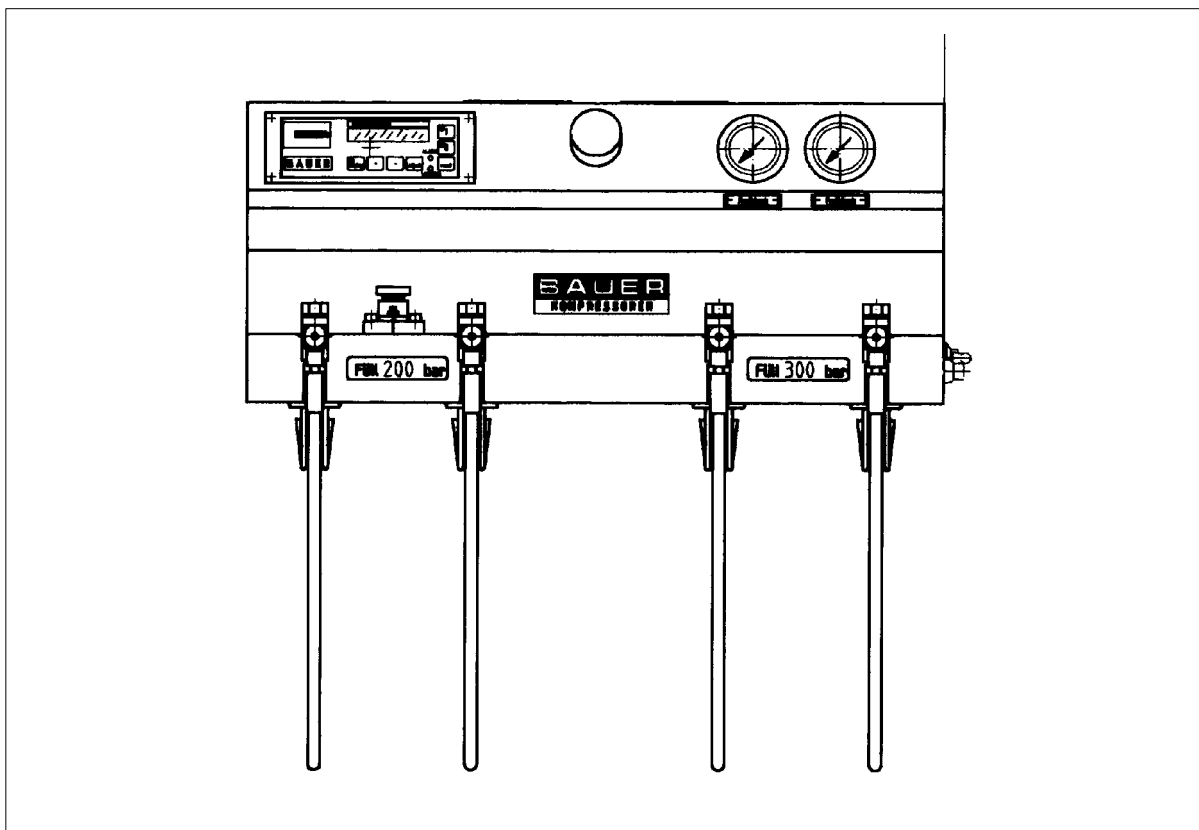


Fig. 9 Filling panel for 2 pressure ranges, Verticus series

Filling panels with hose connection without control unit			
Order-No.	Operating press.	Description	Order-No.
072404	PN 200 PN 300	4 filling valves 4 filling hoses 2 filling connections 2 ISO-filling connections 2 filling connections 1 pressure gauge 1 safety valve (225 bar) 1 final pressure sensor 220 bar 1 ball valve 1 vent valve	011826 N 2817 07756 03147 010912 N 16169 059410 N 19999 N 2624 060374

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Order-No.	Operating press.	Description	Order-No.
072408	PN 200	with pressure reducer	
	PN 300	4 filling valves 4 filling hoses 2 filling connections 2 ISO-filling connections 2 filling connections 2 pressure gauges 1 pressure reducer 1 safety valve (225 bar)	011826 N 2817 07756 03147 010912 N 2623 N 21826 059410
072409	PN 200	with 2 pressure reducers	
	PN 300	4 filling valves 4 filling hoses 2 filling connections 2 ISO-filling connections 2 filling connections 2 pressure gauges 2 pressure reducers 1 safety valve (225 bar) 1 safety valve (330 bar)	011826 N 2817 07756 03147 010912 N 2623 N 21826 059410 059410
Filling panels with direct connection without control unit			
Order-No.	Operating press.	Description	Order-No.
073997	PN 200	2 filling valves	06818
	PN 300	2 filling valves 2 ISO-filling connections 1 pressure gauge 1 safety valve (225 bar) 1 final pressure sensor 220 bar 1 ball valve 1 vent valve	010918 08487 N16169 059410 N 19999 N 2624 060374
Filling panels with hose connection with control unit			
Order-No.	Operating press.	Description	Order-No.
072053	PN 200	4 filling valves	011826
	PN 300	4 filling hoses 2 filling connections 2 ISO-filling connections 2 filling connections 1 pressure gauge 1 safety valve (225 bar) 1 final pressure sensor 220 bar 1 ball valve 1 vent valve 1 COMP-TRONIC control and monitoring unit	N 2817 07756 03147 010912 N16169 059410 N 19999 N 2624 060374 N 19410

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Order-No.	Operating press.	Description	Order-No.
072315	PN 200 PN 300	with pressure reducer 4 filling valves 4 filling hoses 2 filling connections 2 ISO filling connections 2 filling connections 2 pressure gauges 1 pressure reducer 1 safety valve (225 bar) 1 COMP-TRONIC control and monitoring unit	 011826 N 2817 07756 03147 010912 N 2623 N 21826 059410 N 19410
072316	PN 200 PN 300	with 2 pressure reducers 4 filling valves 4 filling hoses 2 filling connections 2 ISO filling connections 2 filling connections 2 pressure gauges 2 pressure reducers 1 safety valve (225 bar) 1 safety valve (330 bar) 1 COMP-TRONIC control and monitoring unit	 011826 N 2817 07756 03147 010912 N 2623 N 21826 059410 059410 N 19410
Filling panels with direct connection with control unit			
Order-No.	Operating press.	Description	Order-No.
073998	PN 200 PN 300	2 filling valves 2 filling valves 1 pressure gauge 1 safety valve (225 bar) 1 final pressure sensor (220 bar) 1 ball valve 1 vent valve 1 COMP-TRONIC control and monitoring	 06818 010918 N 16169 059410 N 19999 N 2624 060374 N 19410

4. AUTOMATIC SWITCHING DEVICE

4.1. GENERAL

With the automatic switch-over device one can guarantee a constant equal volume in the storage bottles.

4.2. FUNCTION

First the automatic switching device allows high pressure air from storage to directly fill the bottles.

When storage pressure drops and refilling is necessary, the compressor will be turned on automatically and begin to directly fill the bottles.

The 3 functions of the automatic switching device:

- **Pre-filling** from the storage bank by high pressure air until the equalization of pressure has been reached.
- **Filling** of the bottle directly by the compressor up to the filling pressure.
- **Refilling** of the storage bank up to the max. storage pressure.

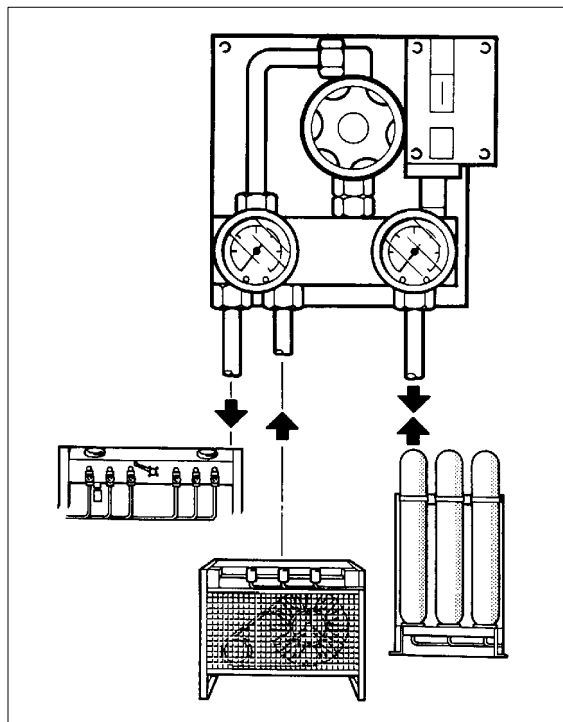


Fig. 10 Automatic switching device

The automatic device consists of a pressure maintaining valve, a check valve and an integrated pressure switch for switching the compressor unit on or off. The use of this automatic device replaces the cascade filling function.

The two pressure gauges monitor inlet and outlet pressures. The pressure switch controls the operation of the compressor unit.

Automatic switching device (Order-No. 062796)

Automatic switching device with pressure sensor (Order-No. 072862) for units with COMP-TRONIC

Technical data:

Orifice dia:	DN 4
Operating pressure:	PN 350 bar
Adjustable range of the bypass valve:	200 – 350 bar
Connections:	Inlet Ø 8 or 10 mm Exit Ø 8 or 10 mm

Delivery scope:

The unit is completely piped and ready for installation.

Automatic switching device dimensions in mm	Length	Height	Width
	400	250	150

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5. FILLING VALVES

5.1. FILLING VALVES FOR DIVERS

5.1.1. General

The filling devices are completely assembled and ready for connection to the filter system of the unit. The components can also be delivered as individual parts.

5.1.2. Standard version

Filling device PN200 (Order-No. 014355) consisting of:

- 1 Filling hose, 1 m (Order-No. N 2817)
- 1 Filling valve with pressure gauge, integrated vent and german adapter G 5/8 DIN 477 (Order-No. 071343)
- 1 International filling connection (Order-No. 08487)
- w/o pressure gauge (Order-No. 075280)

Filling device PN300 (Order-No. 014356) consisting of:

- 1 Filling hose, 1 m (Order-No. N 2817)
- 1 Filling valve with pressure gauge, integrated vent and german adapter G 5/8 DIN 477 (Order-No. 071344)
- w/o pressure gauge (Order-No. 075122)

5.1.3. Spare parts and accessories

Spare glass for pressure gauge (Order-No. N 19954)

Repair kit for filling valves for divers (Order-No. 072349)

Protective cover (Order-No. N 15985)

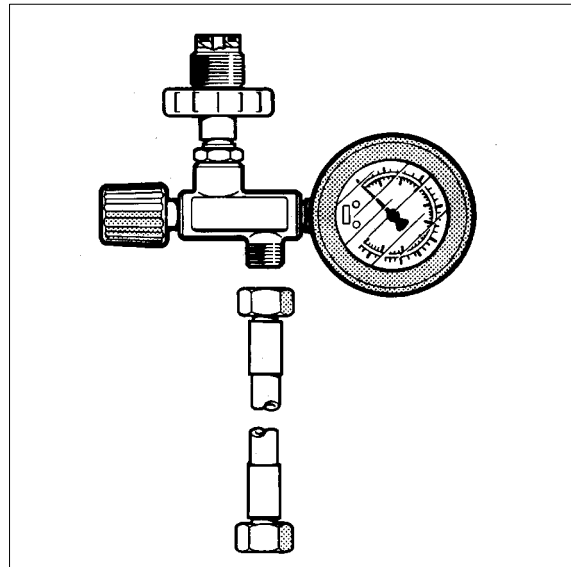


Fig. 11 Filling connection PN200

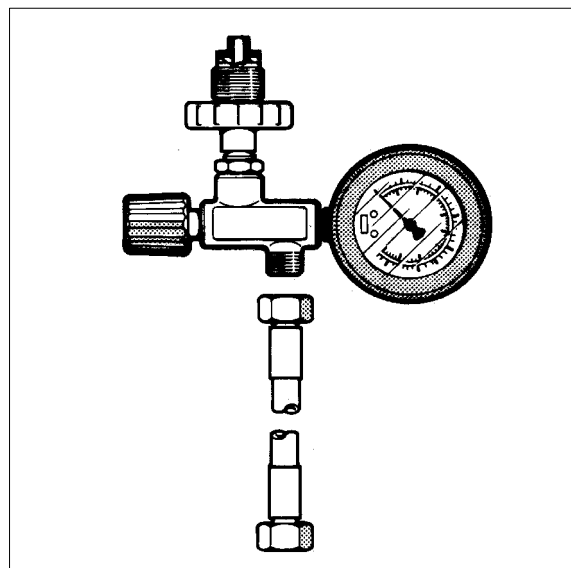


Fig. 12 Filling connection PN300

5.1.4. Individual filling valves without pressure gauges

Filling valve PN200 (Order-No. 071744)
consisting of :

- 1 Filling valve with integrated vent and german adapter G 5/8 DIN 477

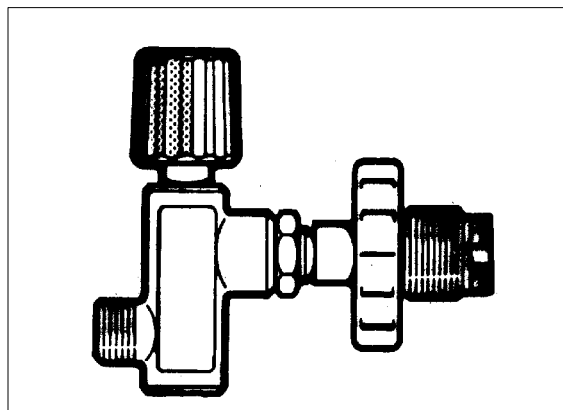


Fig. 13 Filling valve PN200

Filling valve PN300 (Order-No. 071743)
consisting of:

- 1 Filling valve with integrated vent and german connection G 5/8 DIN 477

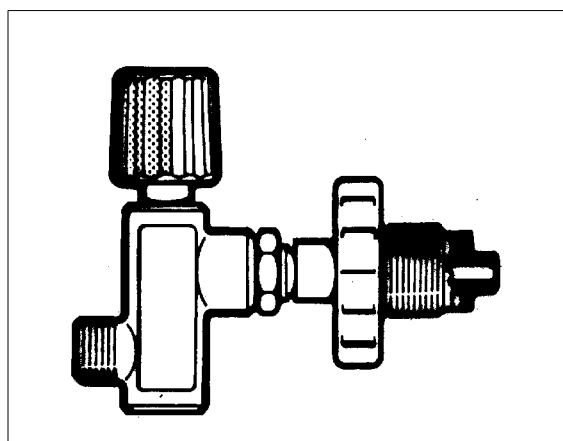


Fig. 14 Filling valve PN300

5.1.5. Distributors

Distribution fitting for a max. of 2 connections (Order-No. 073080) consisting of:

- Distributor
- Connection (Order-No. 58036)
- USIT-ring (Order-No. N4602)

1 x threaded connection M 16 x 1.5 mm female

2 x threaded connection M 16 x 1.5 mm male

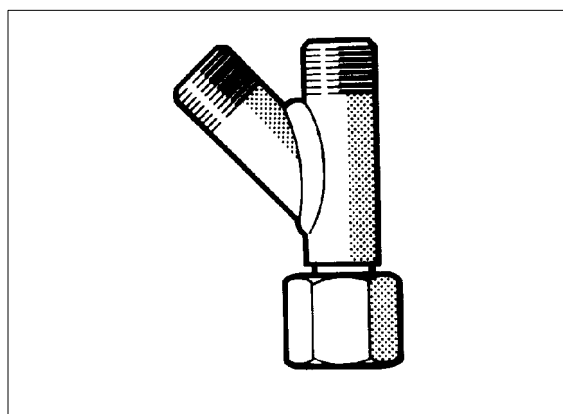


Fig. 15 Distributor, 2 connections

High Pressure Accessories Catalogue

Distribution fitting for a max. of 3 connections (Order-No. 074977) consisting of:

- Connection (Order-No. 58036)
- 4 allen screws M 6x80 (Order-No. N19543)

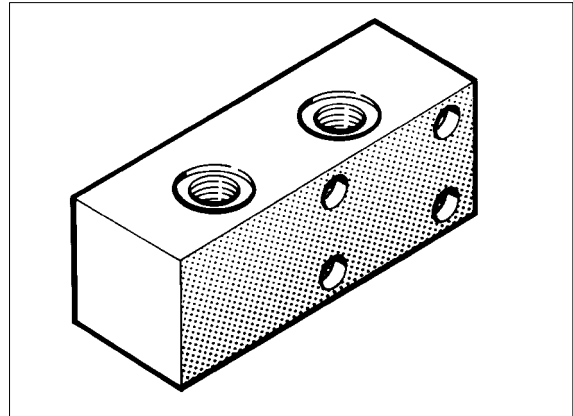


Fig. 16 Distributor, 3 connections

5.2. LEVER VALVES

5.2.1. General

The filling devices are completely assembled and ready to be mounted onto the filling panel of the unit.

Filling valve PN200 (Order-No. 06818)
consisting of:

- 1 Filling valve with integrated vent for german bottle connection G 5/8 DIN 477

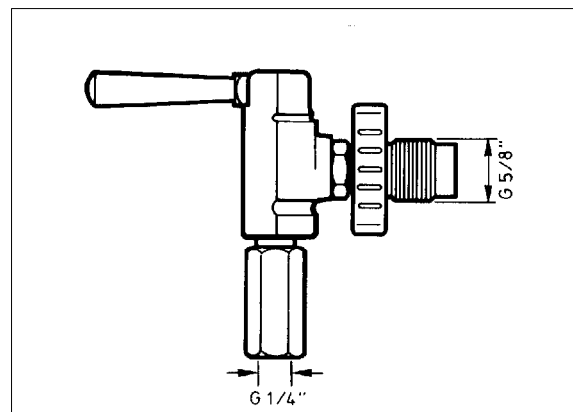


Fig. 17 Filling valve PN200

Filling valve PN300 (Order-No. 010918)
consisting of:

- 1 Filling valve with integrated vent for german bottle connection G 5/8 DIN 477

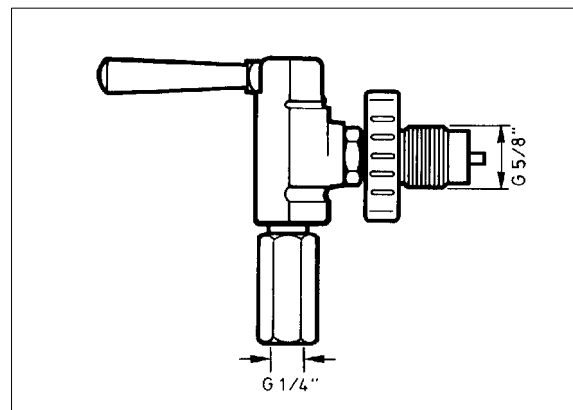


Fig. 18 Filling valve PN300

5.2.2. Spare parts and accessories

- Repair kit for lever filling valve (Order-No. N5052)
- U-bolt for filling valve (Order-No. 6942)
- Washer (Order-No. N 2862)
- Lock washer (Order-No. N 108)
- Hex. nut (Order-No. N 57)

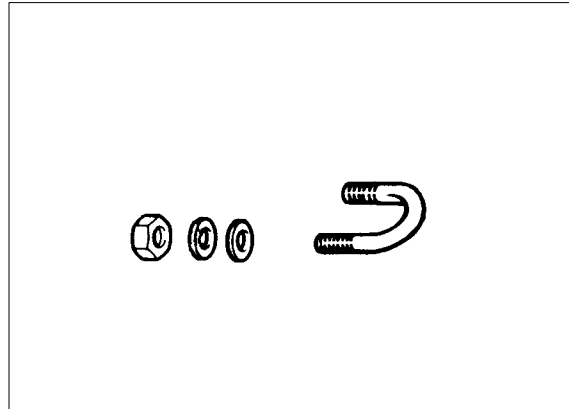


Fig. 19 U-bolt

Adapter for the coupling of the german filling valve and the high pressure connecting hose

- PN200: Order-No. 5951
- PN300: Order-No. 11255

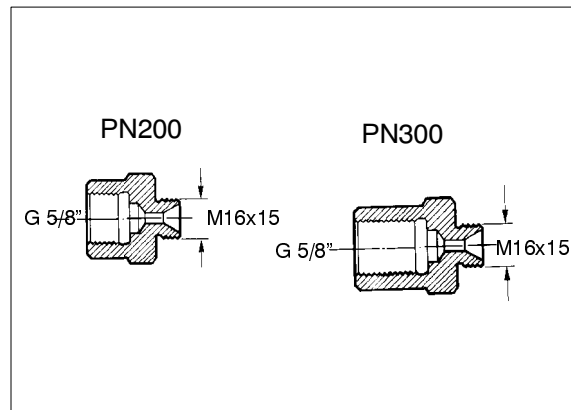


Fig. 20 Adapter

Filling valve PN200/PN300 (Order-No. 011826) consisting of:

- 1 Filling valve with integrated vent for hose connection M 16 x 1.5; air inlet connection G 1/4

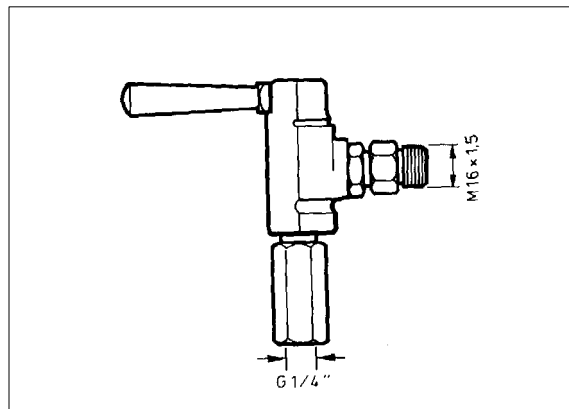


Fig. 21 Filling valve PN200/PN300

High Pressure Accessories Catalogue

Filling valve PN200/PN300 (Order-No. 07055)
consisting of:

- 1 Filling valve with integrated vent for hose connection M 16 x 1.5; air inlet connection G 3/8 tapered

Filling valve with angular output for UNIMAM-filling hose (Order-No. 074175)
consisting of:

- 1 Filling valve with integrated vent for hose connection M 16 x 1.5; air inlet connection G 3/8 tapered

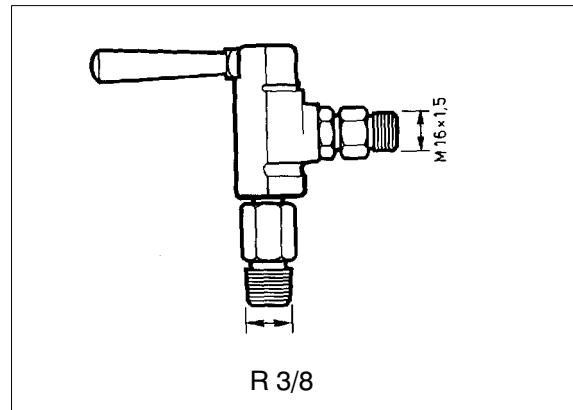


Fig. 22 Filling valve PN200/PN300

Filling valve with angular output for UNIMAM-filling hose (Order-No. 072832)
consisting of:

- 1 Filling valve with integrated vent valve for hose connection M 16 x 1.5; air inlet connection G 1/4

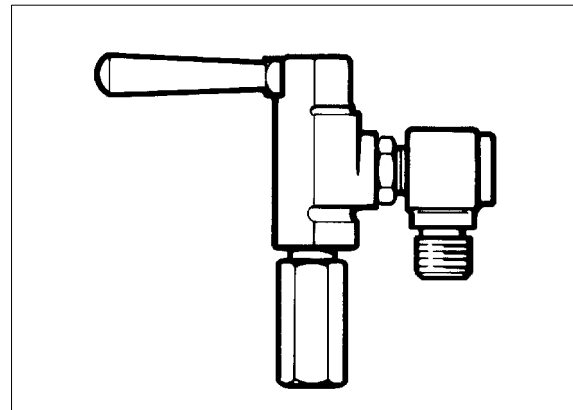


Fig. 23 Angular filling valve PN200/PN300

Angular filling connection for UNIMAM-filling hose PN300 (Order-No. 072539)
consisting of:

- 1 connecting part for hose connection M 16 x 1.5

Filling valves 011826 and 07055 can be equipped with it.

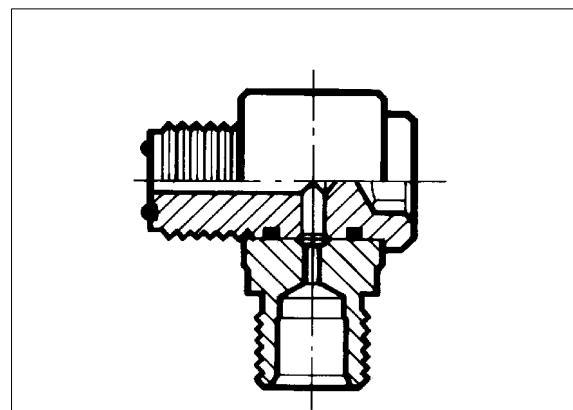


Fig. 24 Angular filling connection

6. BOTTLE CONNECTIONS

International filling adapter PN200 (Order-No. 03147) consisting of:

- Handwheel, yoke, insert, coupling with male thread M 16 x 1.5 and O-ring

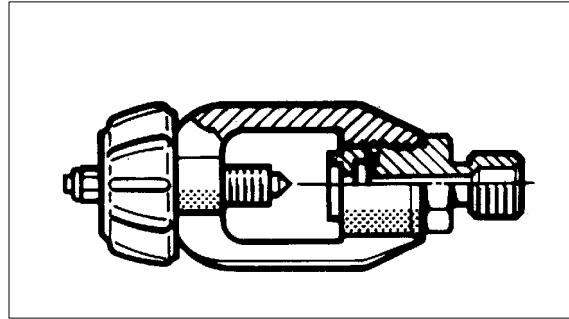


Fig. 25 Filling adapter PN200

International filling adapter PN200 (Order-No. 08487) consisting of:

- Handwheel, yoke with female thread G 5/8 and insert

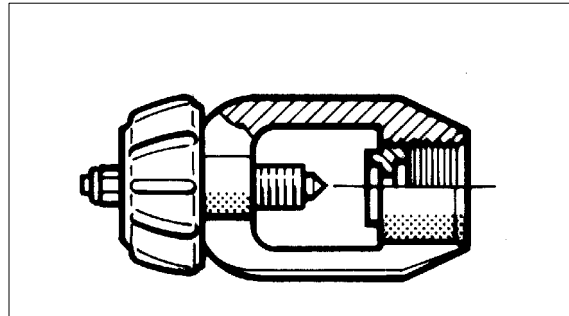


Fig. 26 Filling adapter PN200

German filling adapter PN200 (Order-No. 07756) consisting of:

- Filling adapter with male thread M 16 x 1.5, adapter G 5/8, O-ring

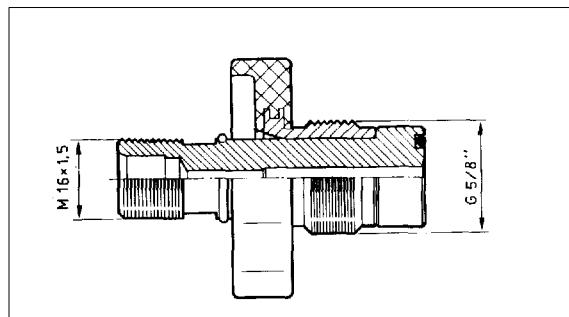


Fig. 27 Filling adapter PN200

German filling adapter PN300 (Order-No. 010912) consisting of:

- Filling adapter with male thread M 16 x 1.5, adapter G 5/8, O-ring

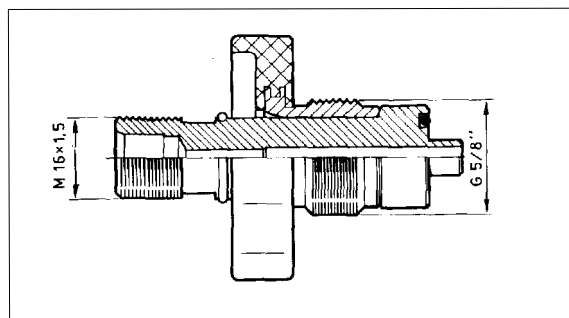


Fig. 28 Filling adapter PN300

High Pressure Accessories Catalogue

7. SHUT OFF VALVES

7.1. GENERAL

High pressure ball valves have little or no restriction to allow for a very high flow rate. The gaskets are suited for oilfree and dry air. The handle shows the ON – OFF position and is easy to actuate. The selector is included in the delivery scope. Medium temperature: from -20°C to $+100^{\circ}\text{C}$

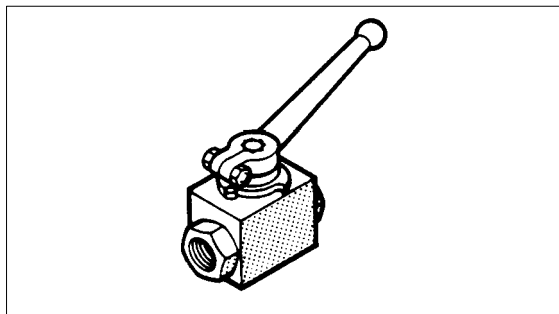


Fig. 29 Two-way valve

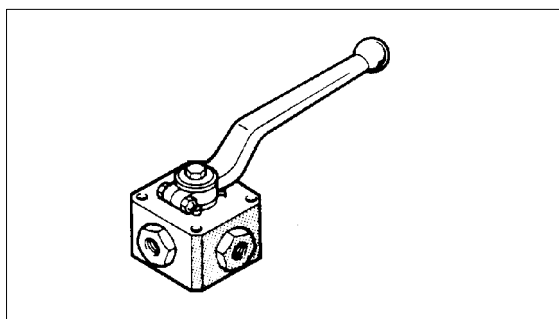


Fig. 30 Three-way and four-way valves

Order-No.	Ball valve	Type of connect.	Thread	Orifice dia. mm	bar	L mm	W mm	Repair kits
N 2624	2-way valve	A	G 1/4	6	500	50	25	N 6484
N 4215	2-way valve	A	G 3/8	10	500	60	30	
N 4027	2-way valve	A	G 1/2	12	500	75	35	
N 16236	2-way valve	B	M 20 x 1.5	8	500	75	25	
N 3045	3-way valve with L-Bore	A	G 1/4	6	400	82	70	N 6485
52241	4-way valve with X-Bore	A	G 1/4	6	400	70	55	N 6486
N 3352	4-way valve with X-Bore	A	G 1/8	3	400	55	45	N 6452

7.1.1. Spare parts and accessories:

Mounting bracket for two-way valve 1/4
(Order-No. 12546)

Mounting bracket for two-way valve 3/8
(Order-No. 69055)

Repair kits: See table on previous page for order nos.

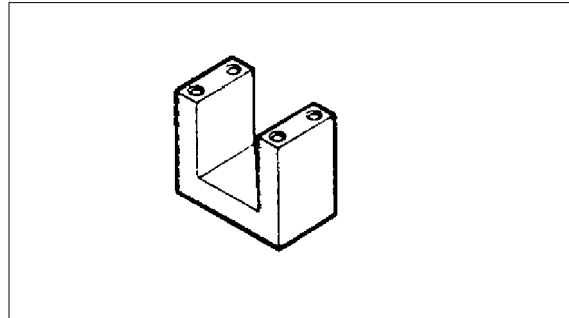


Fig. 31 Mounting bracket for 2-way valve

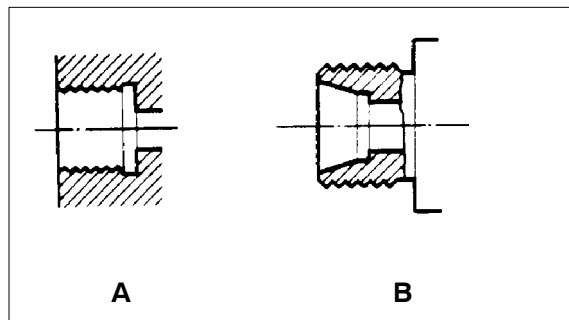


Fig. 32 Type of connection

High Pressure Accessories Catalogue

8. VENTING VALVES

8.1. For mounting in the main air stream

Bleed valve with pressure gauge (Order-No. 64566)

- Bleed valve
- pressure gauge
- Inlet and outlet G 3/8

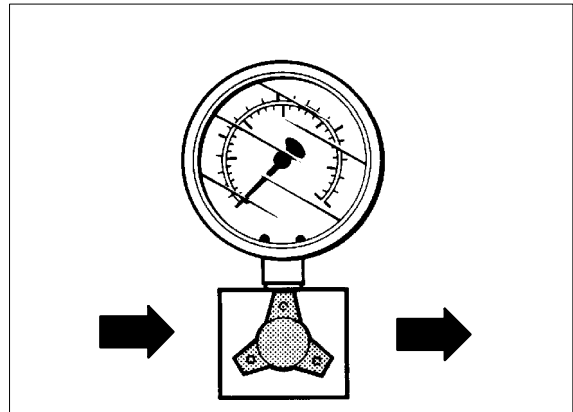


Fig. 33 Bleed valve with pressure gauge

8.2. For mounting in the venting line

Venting valve (Order-No. 061650)

- Venting valve
connecting female thread G 3/8

Venting valve (Order-No 060374) consisting of:

- Venting valve
connecting female thread G 3/4

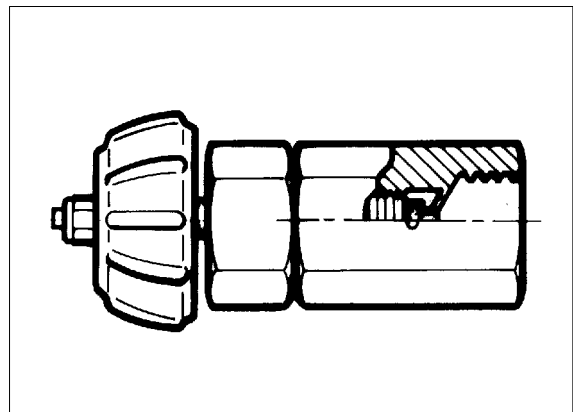


Fig. 34 Venting valve

9. PRESSURE MAINTAINING VALVES**9.1. GENERAL**

The pressure maintaining valves maintain a minimum pressure. Air continues to flow only after exceeding the set pressure.

Normally a pressure maintaining valve is installed after the oil and water separator and filter system.

It ensures that a minimum pressure will be maintained in the separator/filter system and the resulting constant low air velocity guarantees optimum filtration efficiency right through the filling procedure.

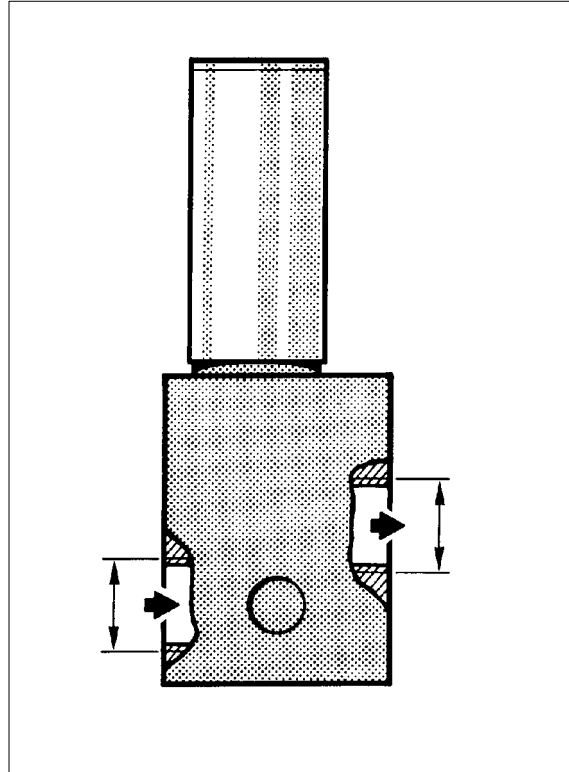


Fig. 35 Pressure maintaining valve

High Pressure Accessories Catalogue

Order-No.	Max. Operating pressure bar	Nominal size mm	Holding pressure* bar	Connection tube outer diameter or thread		Material housing	Dimensions LxWxH mm	Flow rate** standard m ³ /min	built-in check valve
				Inlet	Outlet				
063838	350	5	150	Ø 8	G 1/4	AlCuMgPb	110x70x35	2	●
056705	400	5	160	Ø 10	1xG 3/8 2xG 1/4	AlCuMgPb	145x50x100	3	●
060510	400	5	160	Ø 12	1xG 3/8 2xG 1/4	AlCuMgPb	145x50x100	3	●
062516	150	7	100	Ø 15	1xG 1/2 2xG 1/4	AlCuMgPb	145x50x100	3	●
065950	400	5	250 160 100 63 40	G 1/4	G 1/4	AlCuMgPb	115x40x35	4.4 3 2 1 0.7	
065840	400	8	250 160 100 63 40 25	G 3/8	G 3/8	AlCuMgPb	115x40x35	11 7 4.5 3 2 1	
066880	400	12	250 160 100 63 40 25 16	G 1/2	G 1/2	AlCuMgPb	140x50x40	25 16 10 6 4 2.5 1.6	
065380	400	20	250 160 100 63 40 25 16 10	G 3/4	G 3/4	AlCuMgPb	213x80x70	70 45 28 18 11 7 4.5 3	

* We recommend the pressure maintaining valve be set at 2/3 of the final pressure. Range of adjustment $\pm 25\%$. Holding tolerance $\pm 5\%$. Other adjustments on request.

** The indicated air flow rate refers to a flow velocity of 15 m/s.

"Please specify setting pressure on order"

10. CHECK VALVES**Check valve**(Order-No. N 1463)

- Max. operating press.: 450 bar
- Nominal bore: 6 mm
- Thread sizes: 2 x G 1/4
- Air flow rate*: 1 m³/min.

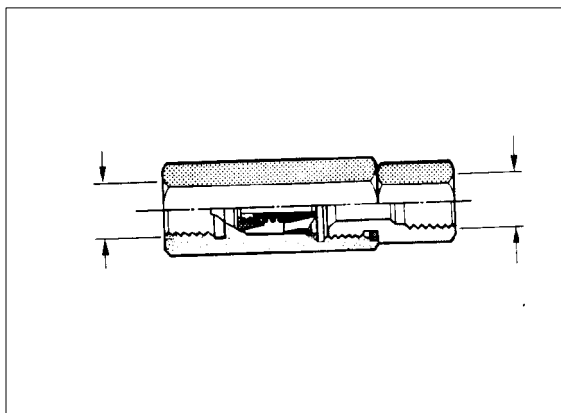


Fig. 36 Check valve

Check valve (Order-No. 061843)

- Max. operating press.: 350 bar
- Nominal bore: 5 mm
- Thread sizes: 2 x tube Ø 12
- Air flow rate*: 3 m³/min.

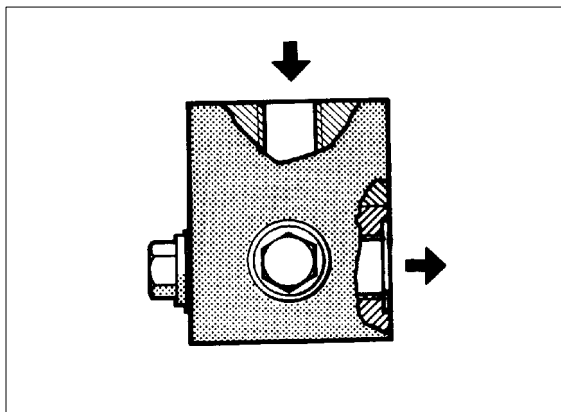


Fig. 37 Check valve

Check valve with pressure gauge and vent
(Order-No. 064547)

- Max. operating press.: 350 bar
- Nominal bore: 5 mm
- Thread sizes: 2 x G 3/8
- Air flow rate*: 3 m³/min.

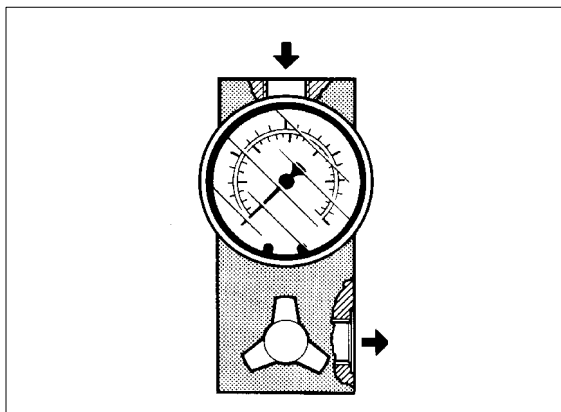


Fig. 38 Check valve with pressure gauge

* The indicated air flow rate refers to a flow velocity of 15 m/s.

High Pressure Accessories Catalogue

11. SAFETY VALVES, TÜV approved

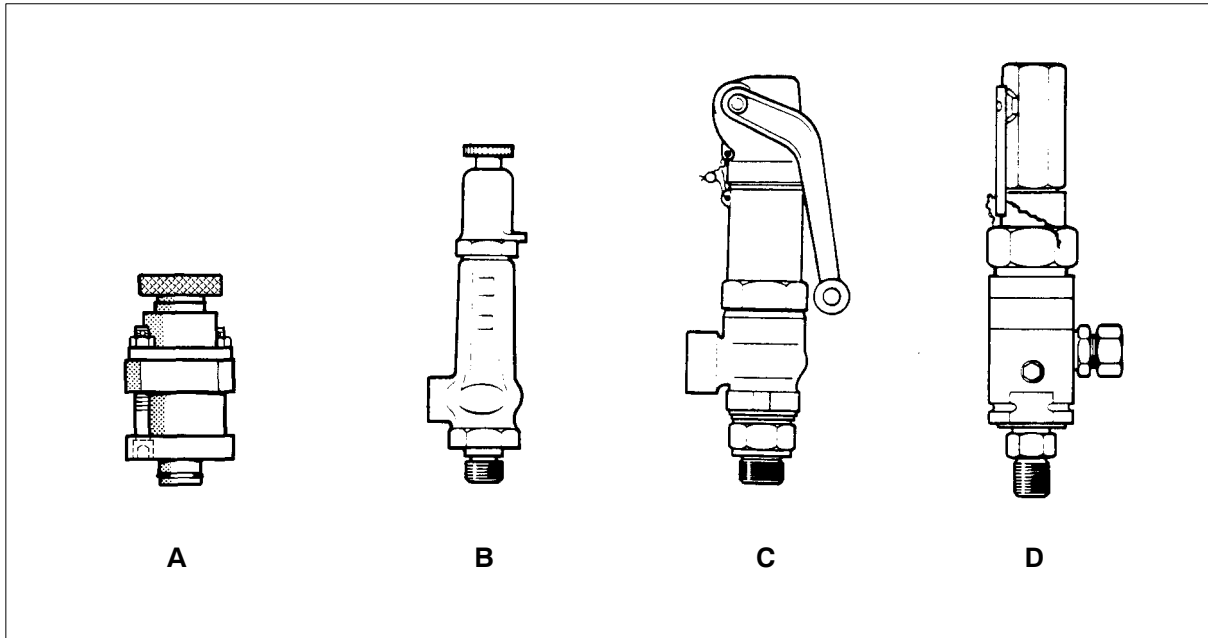


Fig. 39 Safety valves

Order-No.	Max. operating pressure bar	Nominal size mm	Blow off capacity m ³ /min	Thread	Dimensions h x O.D. mm	Fig.
059410*	365	5	1		97 h x 50 Ø	A
N18449 N15480 N 4648 N 15193 N 15171 N 3838 N 15172 N 4649 N 16795 N 4481 N 4734	3.6-5.4 5.45-7.55 16-20 20-29 29-39 39-54 54-69 70-90 91-107 108-122 123-150	10	4.3 6 9 12 16 20	Inlet: G 1/2 male Outlet: G 1/2 female	180 h x 50 Ø	B
N17162 N 2315	147-189 190-250	8	150	G 3/4 male	245 h x 110 Ø	C
N 17067 N 16778 N 17066 N 17068	245-315 315-390 390-525 190-245	6	40 50 60 20	Inlet: G 1/2 male Outlet: Connect. for pipe Ø 18 mm	290 h x 80 Ø	D

"Please specify setting pressure on order"

* Necessary adapter on request

12. SAFETY VALVES

Differential safety valve 225 bar

(Order No. 03063) Blow off capacity 3.3 m³/min at 225 bar.

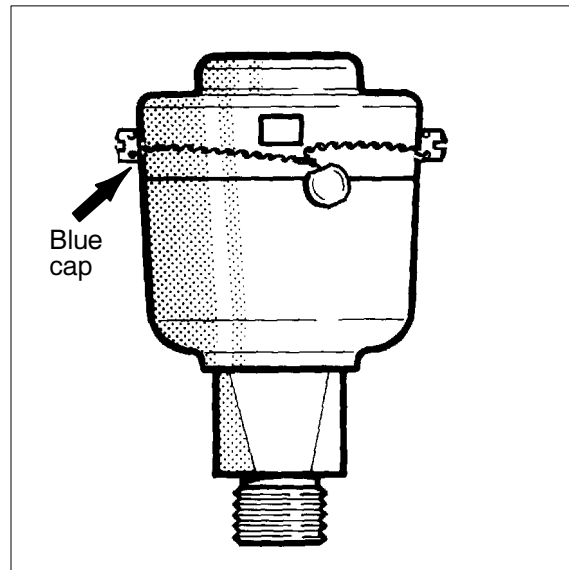


Fig. 40 Differential safety valve 225 bar

Differential safety valve 330 bar

(Order-No. 011523) Blow off capacity 5 m³/min at 330 bar.

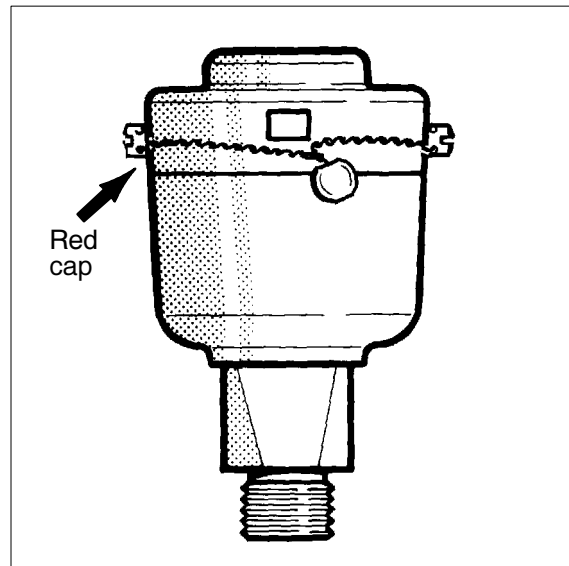


Fig. 41 Differential safety valve 330 bar

High Pressure Accessories Catalogue

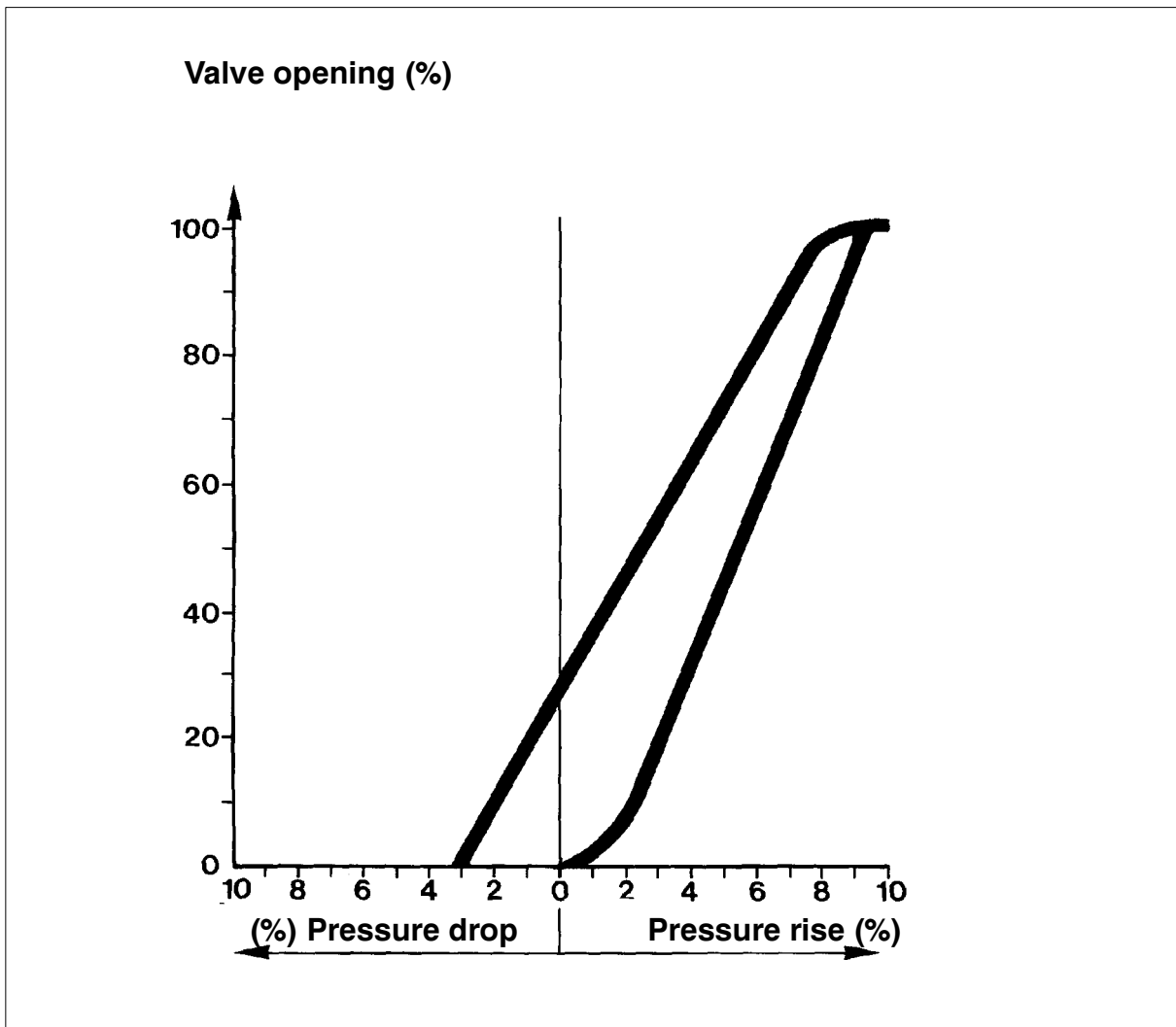


Fig. 42 Opening characteristics of proportional safety valves

This diagram shows the opening and closing characteristics of proportional safety valves. These valves are built into systems where small to medium flows are expected and the loss of medium is to be kept as small as possible.

These valves open and close constantly depending on the pressure level.

After proportional safety valves begin to open, a maximum pressure rise of 10% is reached by the time the valve becomes fully open. This allows for a controlled release of pressure, because the spring force and the pressure level react proportionally.

13. PRESSURE REGULATORS

Pressure regulators for mounting in lines and instrument panels. High regulation accuracy.

Medium: Air, gas

Standard features:

Duraluminium housing, aluminium spring casing. Aluminium bronze piston and piston rings. Stainless steel valve spindle and valve seat. Bypass valve (no substitute for a regular safety valve). Hand wheel for adjusting the pressure settings.

Temperature range of medium:

-10 °C to +100 °C

Pressure range:

Primary pressure: 250 or 420 bar
 Secondary pressure: 0.1 to 280 bar

Thread sizes:

G 3/8 female on primary and secondary side

Dimensions: Height: 200 mm
 Diameter: 80 mm

A 20 µ particle filter must be fitted at the inlet of the pressure regulator.

Recommended filter: Particle filter (N 3635)

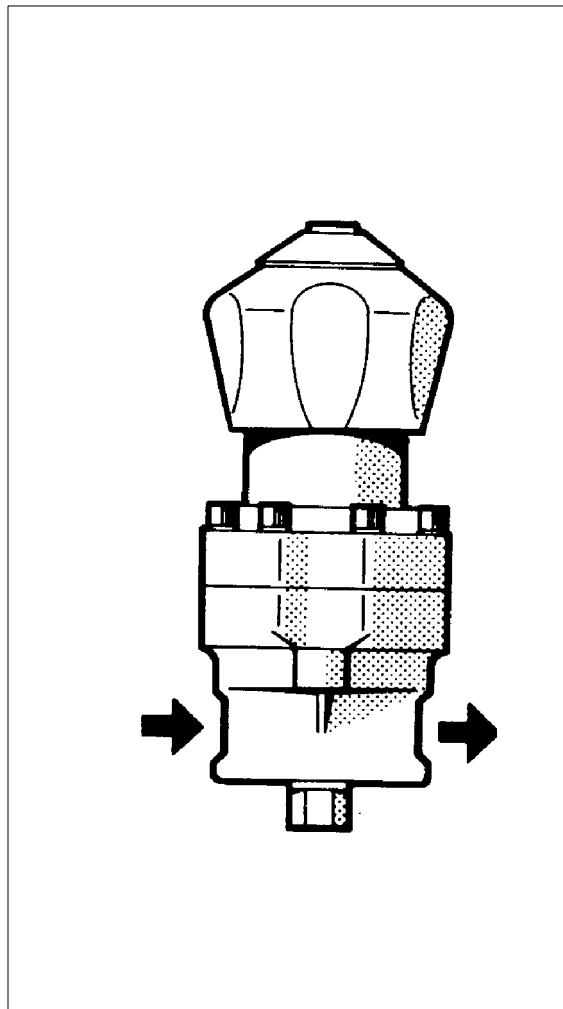


Fig. 43 Pressure regulator

Order-No.	Max. primary press. bar	Secondary press. bar	Flow rate * Nm ³ /min.	Order-No. repair kits
N 4795	250	0.1 – 50	7	upon request
N 4794	250	0.1 – 105	13.5	upon request
N 4796	420	0.1 – 11	1.6	upon request
N 4797	420	0.1 – 50	7	N 6487
N 4798	420	0.1 – 140	16	upon request
N 3967	420	0.1 – 280	32	N 6292

Please specify required primary and secondary pressures as well as Order-No. when ordering.

* at max. primary pressure and max. secondary pressure

High Pressure Accessories Catalogue

Good value alternative for breathing air use (filling panels): pressure regulator N21826, Fig. 44.

Medium: Air

Standard features:

Anodized aluminium housing, valve seats made of brass, stainless steel. Viton seals. The regulator seats are protected by a 20 micron filter. Hand wheel for adjusting the pressure settings.

Temperature range of medium

-25 °C to +90 °C

Pressure range:

Primary pressure: Max. 420 bar
 Secondary pressure: 3.5 to 350 bar

Thread sizes:

2 x 1/4 NPT on both primary and secondary side

Dimensions: Height: 140 mm
 Diameter: 57 mm

Spare parts and accessories

A bracket is necessary for mounting the regulator in instrument panels:

- Bracket, pressure regulator
 (Order-No. 74039)
- Repair set, pressure regulator N21826
 (Order-No. N 23086)

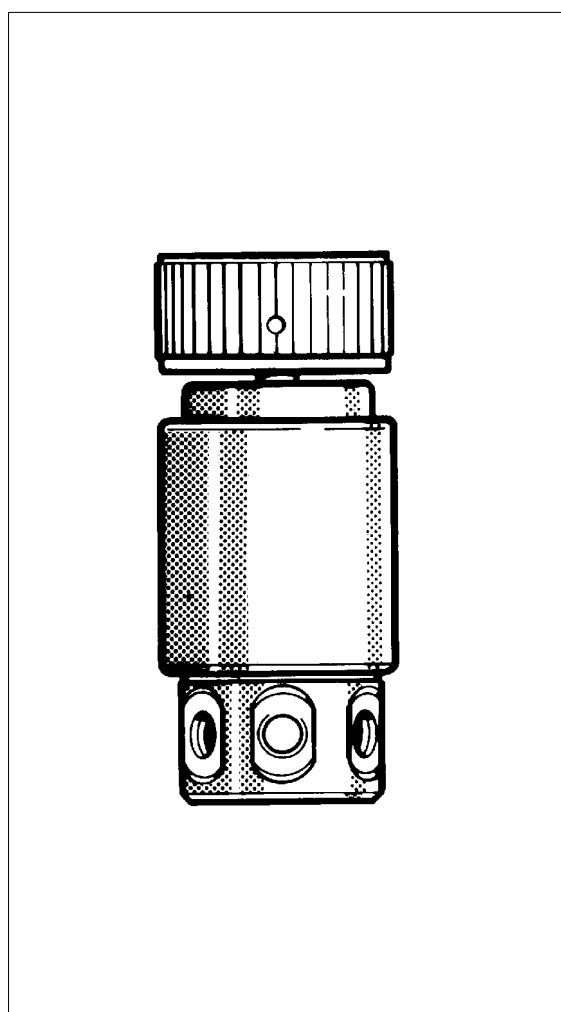


Fig. 44 Pressure regulator N21826

Please specify required primary and secondary pressures as well as Order-No. when ordering.

Tube Fittings

Order-No.	Description	Quantity	Tube Diameter	Thread
N 20264	Straight fitting	2	6 S	1/4" NPT
N 3610	Screw cap	2	6 S	
N 3663	Cutting ring	2	6 S	
	or			
N 20266	Straight fitting	2	8 S	1/4" NPT
N 3608	Screw cap	2	8 S	
N 3609	Cutting ring	2	8 S	
N4472	Cover screw	2		1/4" NPT

Pressure regulator N 3632 for mounting in lines and instrument panels.

Medium: Air, gas

Standard features:

Duraluminium housing, aluminium spring casing, stainless steel valve seat and cone with teflon-seats, diaphragm, bypass valve (no substitute for a regular safety valve), hand wheel for adjusting pressure settings.

Temperature range of medium:

-10 °C to +100 °C

Pressure range:

See table below

Standard flow rate:

See table below

Thread sizes:

G 3/4 female on primary and secondary side

Dimensions: Height: 200 mm
Diameter: 83 mm

A 20 µ particle filter must be fitted at the inlet of the pressure regulator.

Recommended filter: Particle filter (N 3635)

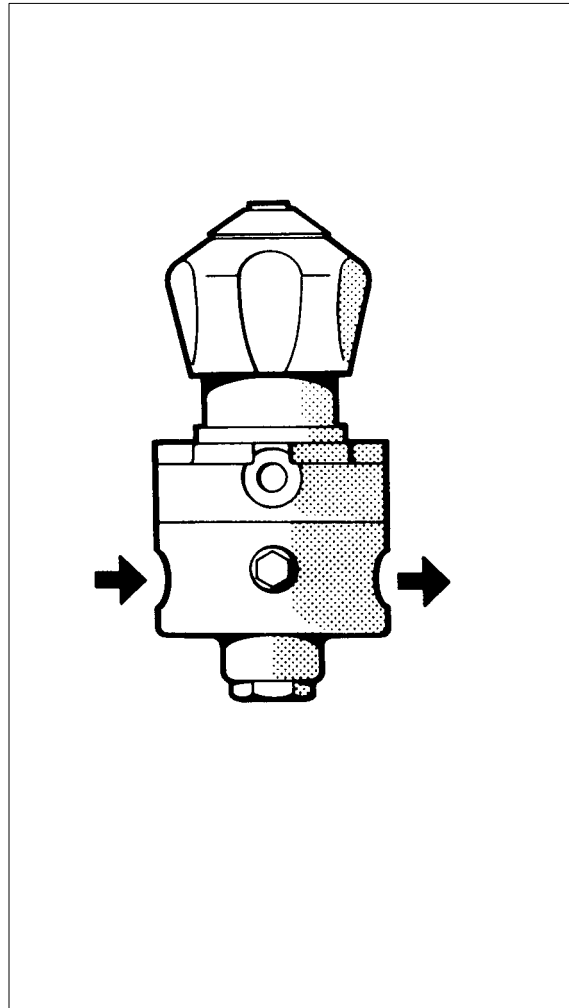


Fig. 45 Pressure regulator N 3632

Order-No.	Max. primary pressure bar	Secondary pressure bar	Flow rate * Nm ³ /min	Order-No. repair kits
N 3632	42	0.1 – 1	1	N 6291
upon request	42	0.3 – 5	3.5	
upon request	42	0.5 – 11	6	
upon request	42	0.5 – 25	14	
upon request	42	10 – 31	11	

Please specify required primary and secondary pressures as well as Order-No. when ordering.

* at 42 bar primary pressure and max. secondary pressure

High Pressure Accessories Catalogue

Pressure regulators N 3676 for supplying low pressure systems from high pressure storage banks.

Medium: Air, gas

Standard features:

Brass housing
Secondary pressure is adjustable. Pressure gauges for primary and secondary pressures.

Pressure range:

Primary pressure: max. 225 bar
Secondary pressure: 1 – 20 bar
adjustable

Standard flow rate:

approx. 0.4 m³/min at 5 bar secondary pressure
approx. 0.65 m³/min at 10 bar secondary pressure

Thread sizes:

Primary side: G 5/8 DIN 477
Secondary side: G 1/4 i.

A 20 µ particle filter must be fitted at the inlet of the pressure regulator.

Recommended filter: Particle filter (Order-No. N 3635) + connector (Order-No. 58074)

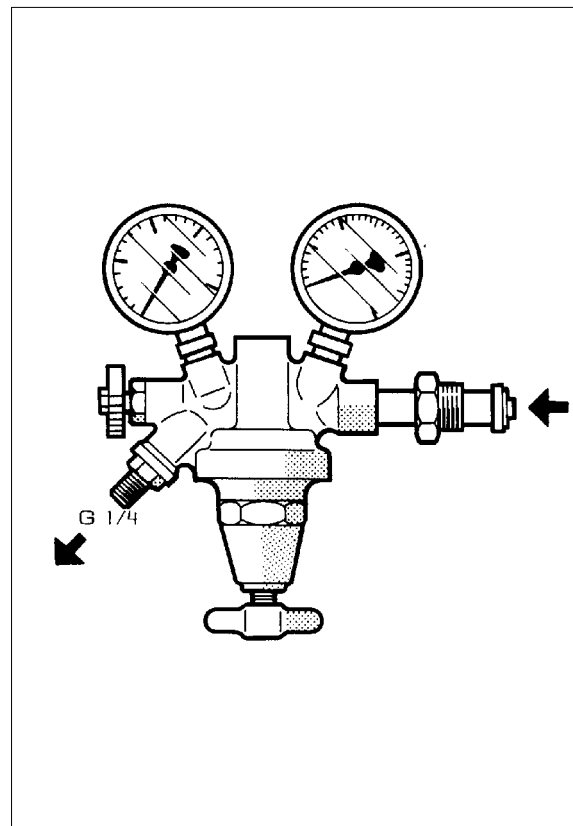


Fig. 46 Pressure regulator N 3676

Dome pressure regulators for mounting in lines and instrument panels; dome pressure loaded, remote controlled through a pilot pressure reducer, regulation varies with temperature (0.3% per °C).

Medium: Air, gas

Standard features:

Housing and dome made of forged aluminium bronze, valve spindle and valve seat made of stainless steel, valve seat soft gasket, which ensures a tight seal when the valve is closed.

Temperature range of medium:

-20 °C to +80 °C, in special version to -50 °C

Thread sizes:

G 1 (N 4801), G 2 (N 4802), G 1 1/2 (N 16014)

Dimensions:

N 4801 = Height 160 mm, Ø 120 mm
 N 4802 = Height 260 mm, Ø 260 mm
 N 16014 = Height 244 mm, Ø 171 mm

A 20 µ particle filter must be fitted at the inlet side of the pressure regulator.

Recommended filter: N 4817

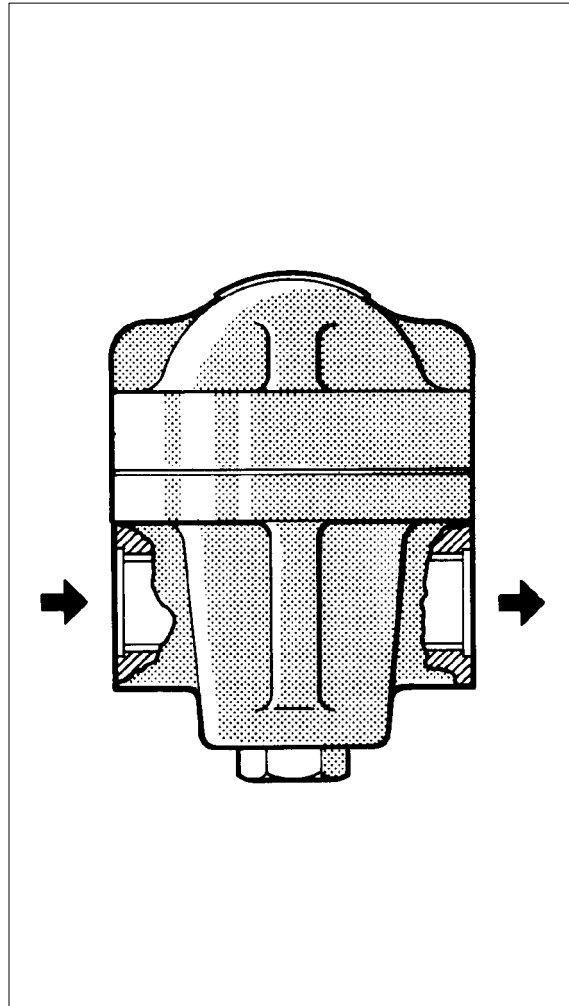


Fig. 47 Dome pressure regulator

Order-No.	Max. primary pressure bar	Secondary pressure bar	Flow rate * Nm ³ /min.	Order-No. repair kits
N 4801	420	0.1 – 280	160	N 6294
N 4802	315	0.1 – 175	612	N 6295
N 16014	310	0.4– 171	505	upon request

Please specify required primary and secondary pressures as well as Order-No. when ordering

* at max. primary pressure and max. secondary pressure

High Pressure Accessories Catalogue

Pressure regulator for mounting in lines and instrument panels. High reliability, also the regulation is not affected by temperature changes.

Medium: Air, gas

Standard features:

Housing and spring casing made of aluminium alloy. Piston – aluminium bronze, diaphragm made of metal. Pressure gauge thread size on the primary and secondary side G 3/8. Relief valve, valve seat soft seal. Hand-wheel for adjusting pressure setting with sealed secondary pressure (additional price)

Temperature range of medium:

-20 °C to +70 °C

Pressure range:

Primary pressure: 465 bar
 Secondary pressure: 1.5 to 410 bar

Thread sizes:

G 3/8 on both sides

Dimensions:

Height: 200 mm
 Diameter: 70 mm
 " 90 mm (Handwheel)

A 20 µ particle filter must be fitted at the inlet side of the pressure regulator.

Recommended filter: Particle filter (N 3635)

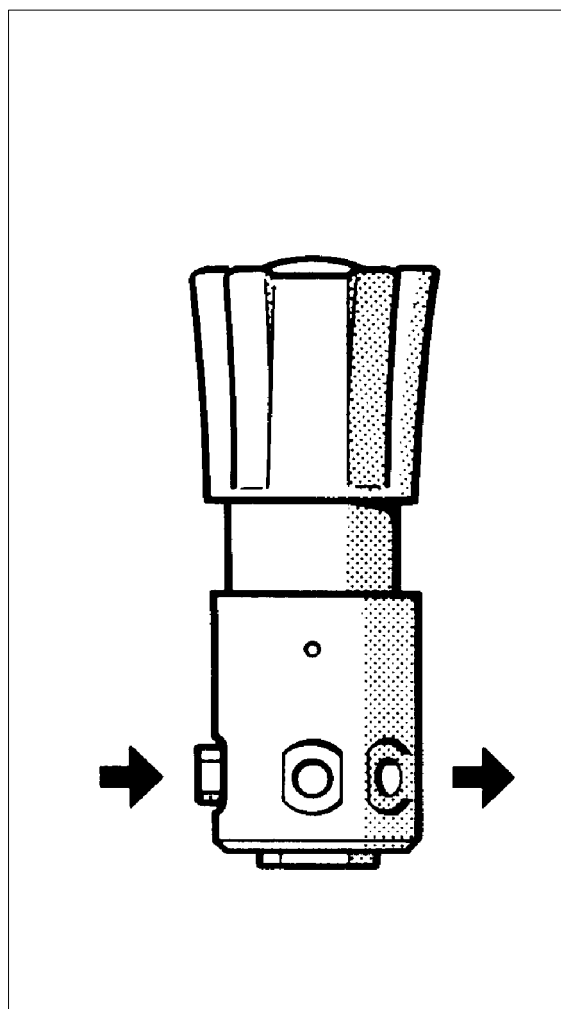


Fig. 48 Pressure regulator

Order-No.	Max. Primary pressure bar	Secondary pressure bar	Flow rate* Nm ³ /min.	Order-No. repair kits
N 15859	465	1.5 – 50	7.1	upon request
N 15860	465	34 – 240	6.5	N 21795
N 15861	465	207 – 410	3.9	upon request

Please specify required primary and secondary pressures as well as Order-No. when ordering

* at max. primary pressure and max. secondary pressure

14. PRESSURE GAUGE**14.1. GENERAL**

The pressure gauges shown below are hermetically sealed, filled with glycerine and have internal pressure compensation. We recommend these pressure gauges for high dynamic loads and very high pressures, vibrations and pulsations.

The liquid in the gauge dampens the effect of the vibrations and pulsations on the pointer. This ensures a steady and precise reading and longer gauge life.

The components of the gauge are tightly sealed to prevent condensation from forming, which could then cause corrosion.

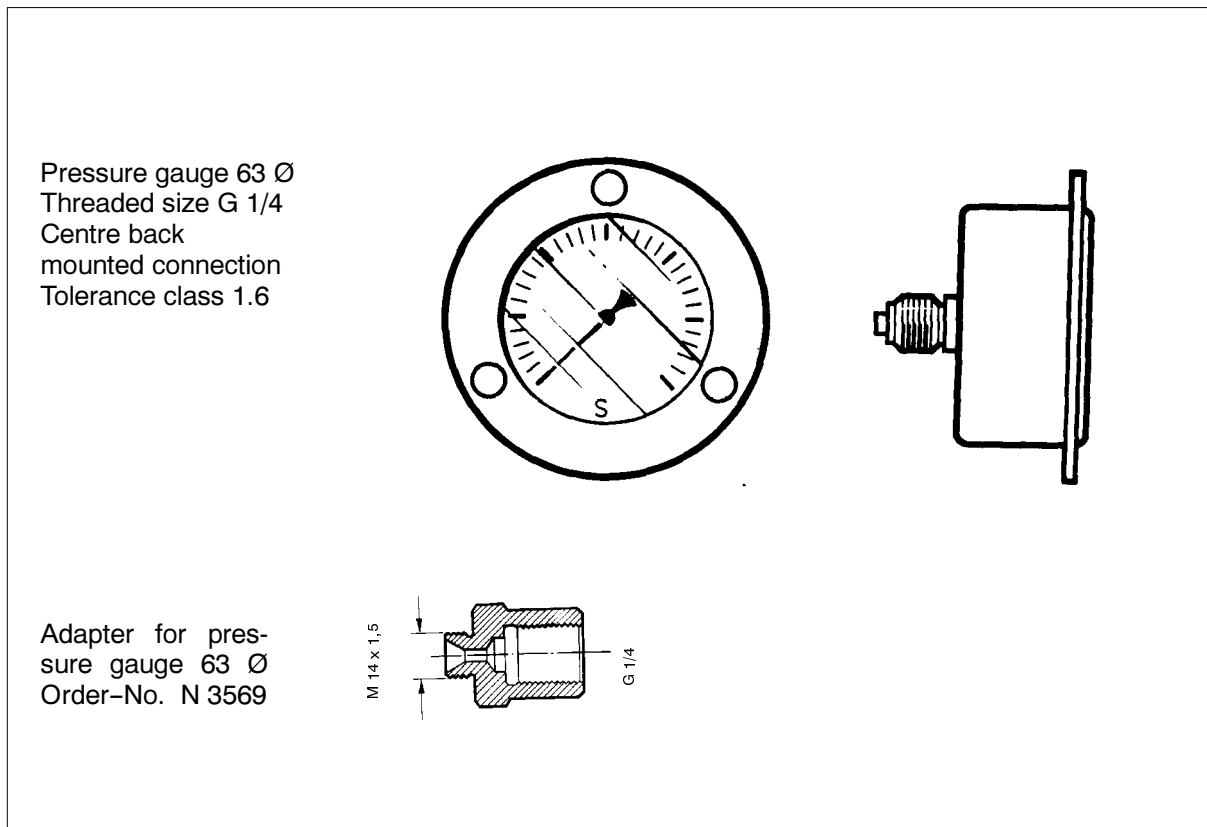


Fig. 49 Pressure gauge, centre back connection

High Pressure Accessories Catalogue

Temperature stability:
 Ambient temperature: – 25 °C to + 60 °C

Rubber protective cover Order-No. 2876

The pressure gauges have a solid steel plate housing with a pressure discharge orifice in the rear wall of the housing. A plastic cover closes this opening, which is 2.3 times larger than required by the DIN.

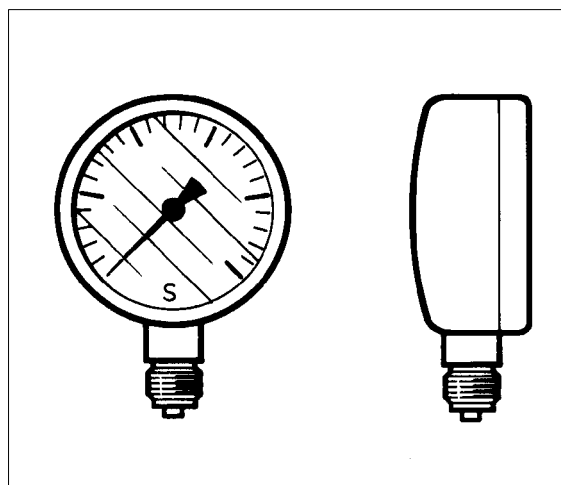




Fig. 50 Press. gauge, connection below

Order-No.	Pressure range bar	Type of connection		N Ø 63	Thread G 1/4 taper	Fronting	Glycerin filling	S Version acc. to DIN 16006	Precision* ± 1.6
									
N 1269	0–16		X	X	X	X	X	X	X
N 1270	0–25		X	X	X	X	X	X	X
N 1271	0–100		X	X	X	X	X	X	X
N 1273	0–160		X	X	X	X	X	X	X
N 1315	0–315	X		X	X			X	X
N 2623	0–400		X	X	X	X	X	X	X
N 3865	–1–+1.5		X	X	X	X	X	X	X
N 4101	0–400	X		X	X			X	X
N 7673	0–250		X	X	X	X	X	X	X
N 15543	0–60		X	X	X	X	X	X	X
N 16758	0–10		X	X	X	X	X	X	X
N 16872	0–600	X		X	X		X	X	X
N 17062	0–600		X	X	X		X	X	X
N 17351	0–600		X	X	X	X	X	X	X
N 18041	0–40		X	X	X	X	X	X	X
N 22330	0–400		X	X	X		X	X	X
N 22331	0–16		X	X	X		X	X	X

* of final value, corresponds to tolerance class

14.2. PRESSURE GAUGE TEST SET FOR COMPARISON TEST

Order-no.	Description
065217	Pressure gauge test set, consisting of:
N 16764	pressure gauge
N 16765	pressure gauge
N 20176	pressure gauge adapter
N 20745	hose
65233	adapter
N 3816	connector
N 20234	reducer
N 3969	connector
N 3708	reducer
N 3081	gasket

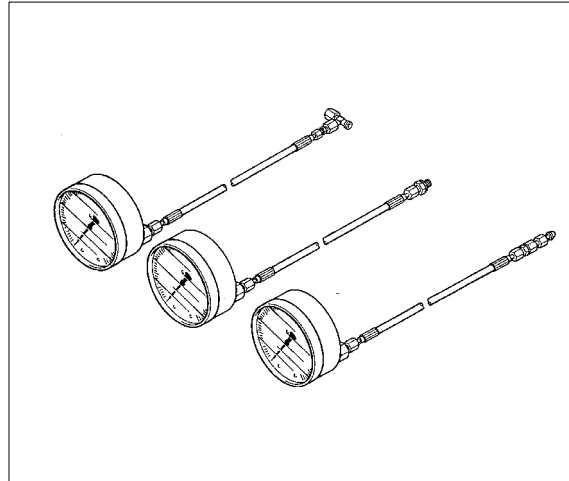


Fig. 51 Pressure gauge test set for comparison test

14.3. TEST PRESSURE GAUGE FOR OIL PRESSURE SETTING

Order-no.	Description
065232	Test pressure gauge, consisting of:
N 1271	pressure gauge
N 3569	connector
N 20745	hose
N 3328	connector

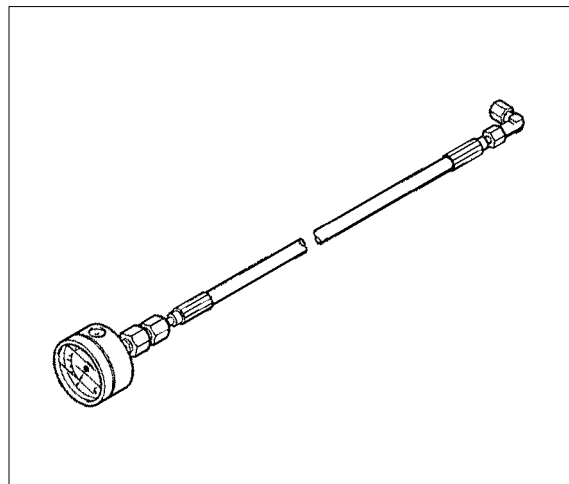


Fig. 52 Test pressure gauge for oil pressure setting

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15. PRESSURE SWITCHES

Pressure switch to control final pressure, adjustable final pressure

Thread size: G 1/4 female. The final pressure setting is adjustable up to max. 350 bar.

The differential pressure setting is not adjustable, it is approx. 15 – 45 bar below the final pressure setting.

(Order-No. N 1010)

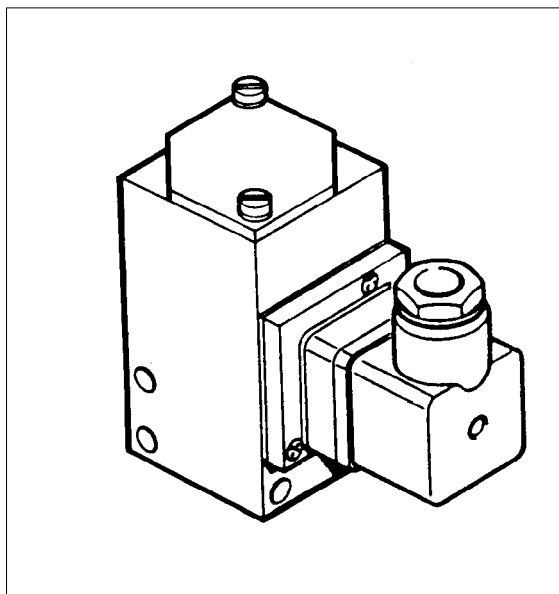


Fig. 53 Pressure switch

Pressure switch to control final pressure, adjustable final and differential pressure

Thread size: G 3/8 female. The final and differential pressure are both adjustable according to the following table.

Constant current max. 10 A

Protection class IP 65

Order-No.	Setting range (bar)	
	OFF	ON
N 15014	max. 70 min. 10	max. 60 min. 4
N 16361	max. 140 min. 20	max. 120 min. 8
N 4527	max. 280 min. 30	max. 245 min. 15
N 4526	max. 500 min. 40	max. 455 min. 20

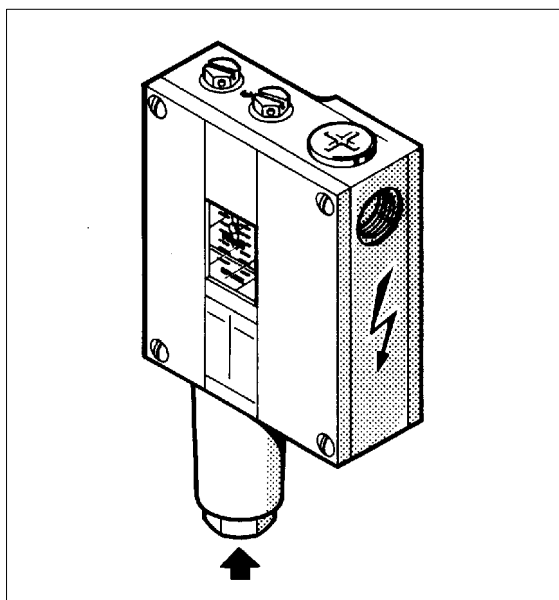


Fig. 54 Pressure switch

Pressure switch to control oil pressure and interstage pressure

Thread size: G 1/4 female

Constant current max. 10 A

Protection class IP 65

Order-No.	Setting range (bar)
N 4804	0.4 – 3.5
N 4537	2 – 20
N 4538	9.5 – 70
N 4539	15 – 160

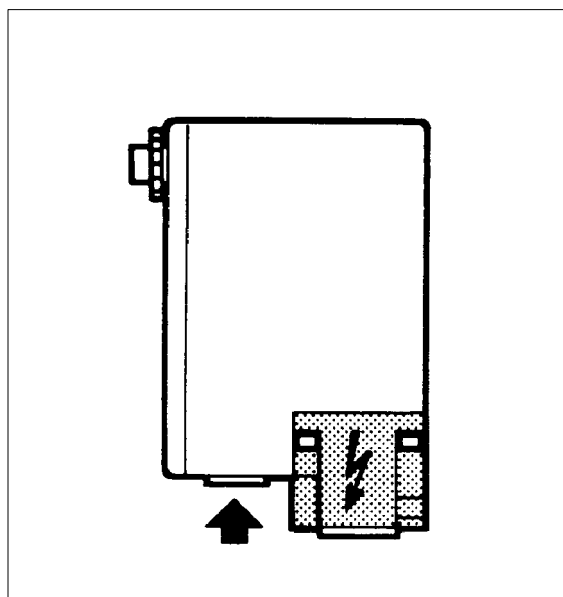


Fig. 55 Pressure switch

Pressure switch to control oil pressure and interstage pressure

Thread size: G 1/4 female (N 15011: G 1/8)

Constant current max. 2 A

Protection class IP 65

Order-No.	Setting range (bar)
N 15011	0.1 – 1
N 15012	0.2 – 2
N 3934	2 – 20
N 3212	10 – 100
N 4016	40 – 400

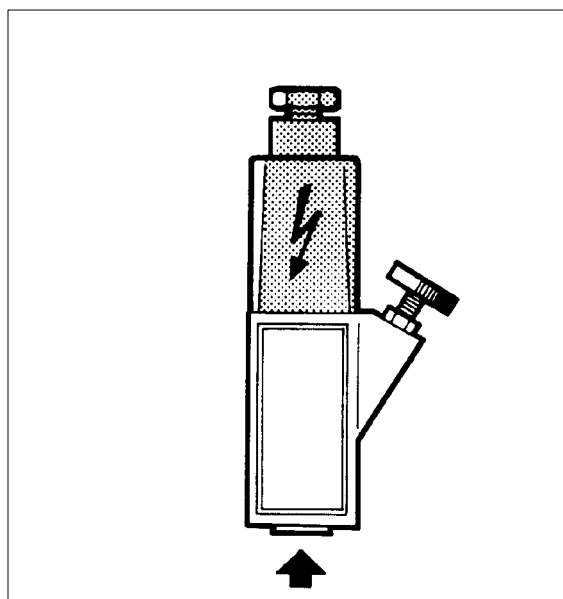


Fig. 56 Pressure switch

High Pressure Accessories Catalogue

16. PRESSURE SENSORS

- 3 conductor models, supply voltage 10.5V-, output signal 1....5 V-.

The measuring values of the pressure sensors are displayed in "bar" or "psig", and can be evaluated as operating, maintenance, prewarning or error messages

The following pressure sensors are available:

Order-No.	Pressure range, bar
N 19998	0-100
N 19999	0-400
N 20813	0-600

Pressure sensors in external instrument panels are supplied with a 3 m power cable. This cable can be extended as required using a standard 3 x 1 mm² control cable. (BAUER part no. N21665, price per metre).

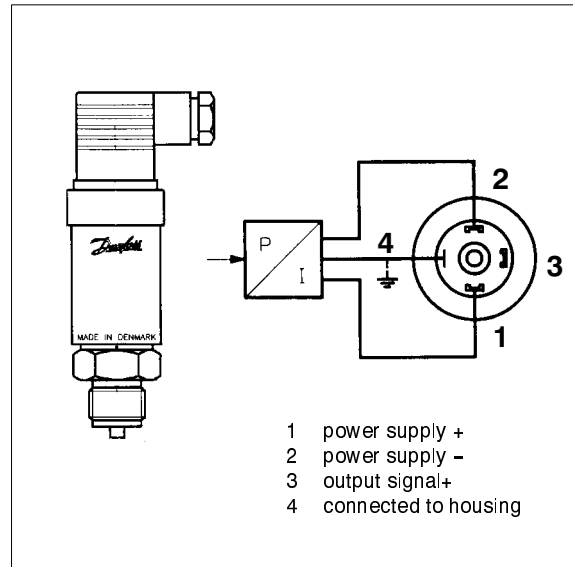


Fig. 57 Pressure transmitter

17. AUTOMATIC CONDENSATE DRAIN

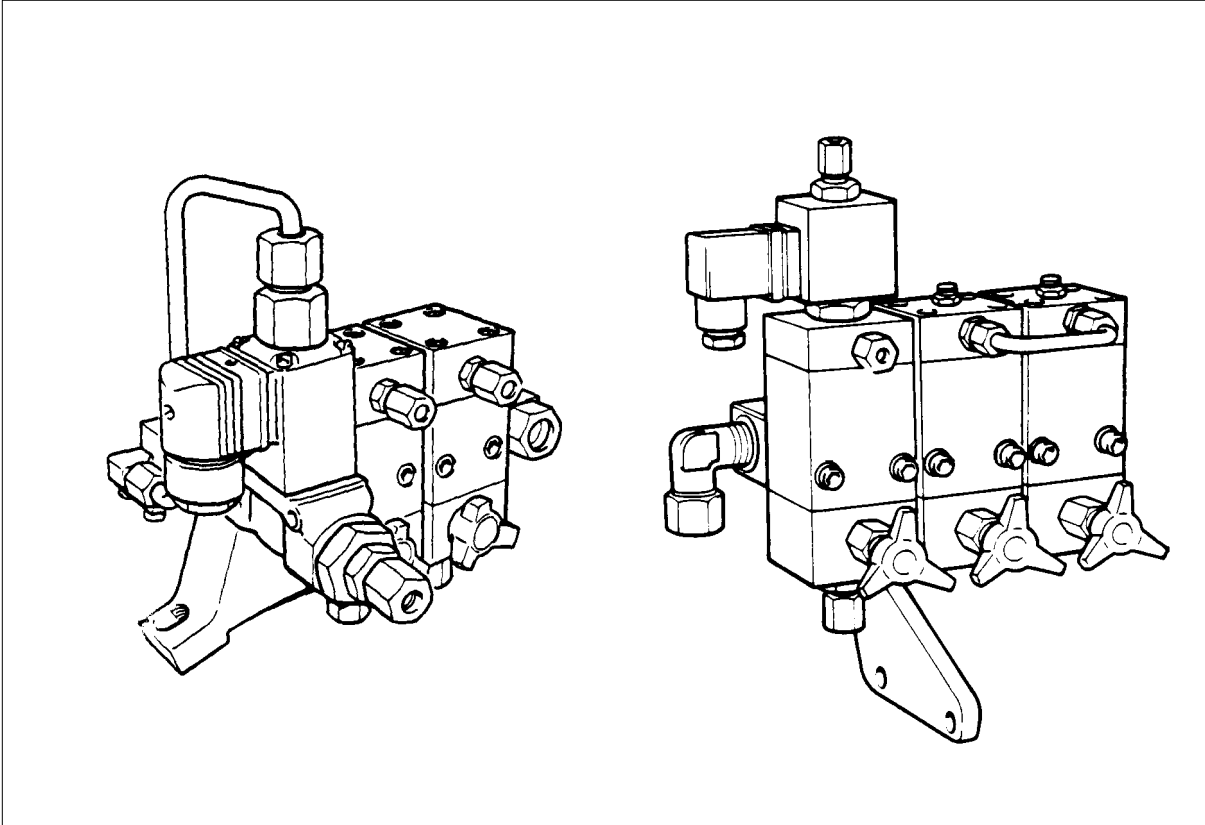


Fig. 58 Automatic condensate drain

Whether for **Air** or

He, Ne, Ar, Kr, N₂, CO, CH₄, CO₂,

your compressor needs regular condensate draining. Our large product range and the high level of quality are based on many years of experience.

If required, please ask for our

”Technical Information ACD”

Specify your compressor model and the operating conditions.

High Pressure Accessories Catalogue

18. COMP-TRONIC COMPRESSOR CONTROL



Fig. 59 COMP-TRONIC Operator panel

BAUER COMP-TRONIC is an electronic programmable compressor control system, with a modern display. The control system is specially designed for all **BAUER** compressors and can be set and configured for all **BAUER** unit models. If required, please ask for further information.

Spare parts

Order-No.	Description	Specification
072792	extension cable	3 m
072793	extension cable	5 m
072794	extension cable	10 m
072795	extension cable	25 m
N19985	extension cable	pls. state the length/as per meter
072024	COMP-TRONIC control panel	
072136	Extension board	
N21661	Aux. board	

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Accessories

Order-No.	Article	Specification
073775	Assembly kit 3 m Contents: extension cable connection tube tube stud cutting rings / screw cap tube clamps	3 m 3 m, 8 x 1.5 2 pieces straight 4 pieces
073776	Assembly kit 5 m Contents: extension cable connection tube tube stud cutting rings / screw cap tube clamps	5 m 5 m, 8 x 1.5 2 pieces straight 6 pieces
073777	Assembly kit 10 m Contents: extension cable connection tube tube stud tube stud cutting rings / screw cap tube clamps	10 m 10 m, 8 x 1.5 2 pieces, straight 2 pieces, elbow 12 pieces
073778	Assembly kit 25 m Contents: extension cable connection tube tube stud tube stud cutting rings / screw cap tube clamps	25 m 25 m, 8 x 1.5 10 pieces, straight, 5 pieces, elbow 28 pieces

High Pressure Accessories Catalogue

19. HOUR METER

Hour meter, electrical

Housing Ø 60 mm for flush mounting with mounting bracket.

Order-No.

N 3263	220 V, 50 Hz
N 3264	220 V, 60 Hz
N 3265	115 V, 60 Hz
N 1734	12/24 V, DC

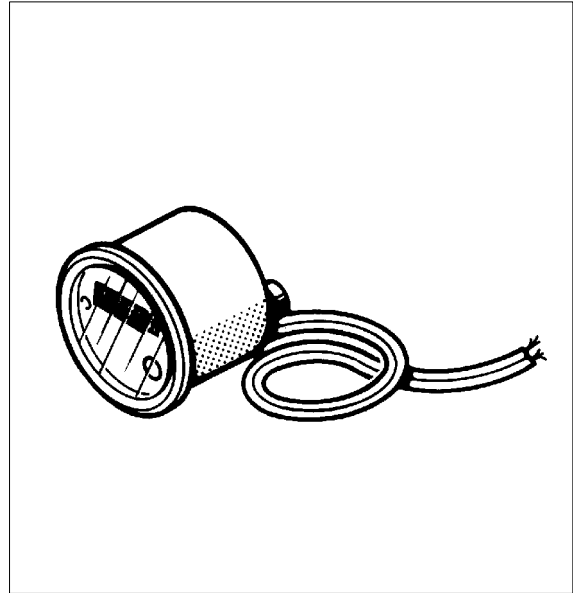


Fig. 60 Hour meter, electrical

Hour meter, mechanical (Order No. N 3475)

Vibration counter, recommended for compressor units with gasoline or diesel engines without an electrical power source and for explosion-proof installations.

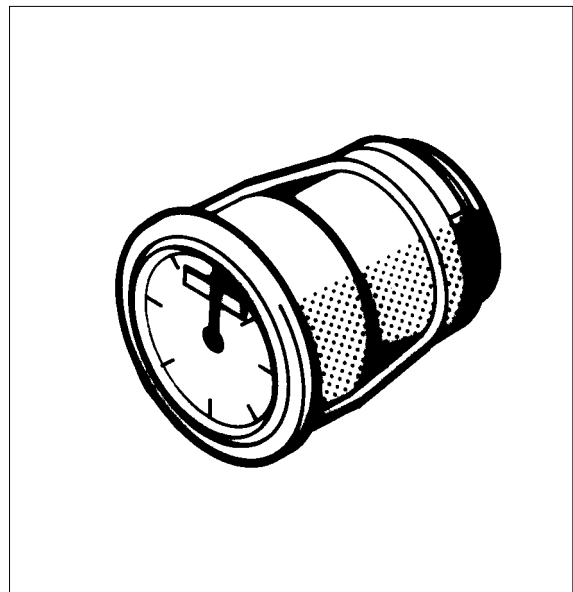


Fig. 61 Hour meter, mechanical

20. THERMOMETER

Remote reading thermometer to monitor compression temperature of final stage (for models PURUS to KAP 180)

Housing \varnothing 60 mm for flush mounting with mounting bracket.

Instrument lead 1,5 m long for connection to the:

	Order-No.
After-cooler with tube \varnothing 6 mm, thread size G 1/4	059125
After-cooler with tube \varnothing 8 mm, thread size G 1/4	059129
After-cooler with tube \varnothing 10 mm, thread size G 3/8	065249

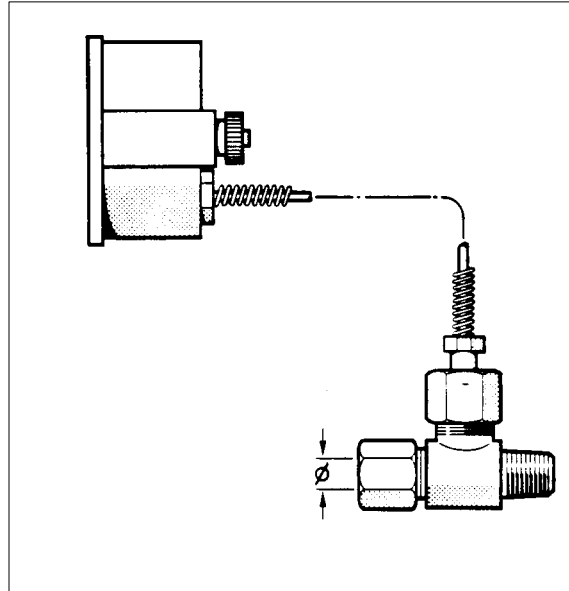


Fig. 62 Remote reading thermometer

Thermometer to monitor compression temperatures (for models K23 to K28)

Housing made of anodized aluminium

Connection \varnothing G 1/2

Available in two versions:

Order-No.

N 19240	straight model
N 16363	Angular (90°) model

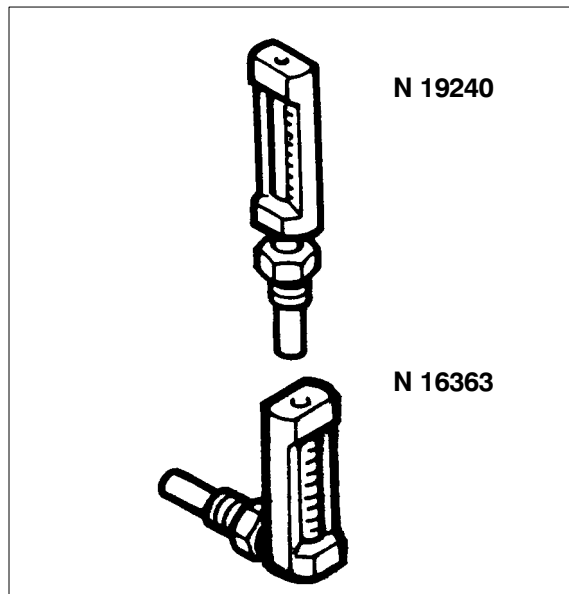


Fig. 63 Thermometer

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21. HOSES

Max. operating pressure

Hoses can be ordered for various pressure ranges, as well as with different connections.

CAUTION

Please remember that the max. permissible operating pressure depends on the component with the lowest pressure range.

For example, with:

Hose N 2817 (450 bar)
+ coupling N 2569 (250 bar)
+ coupling N 3007 (630 bar)

the highest allowable pressure is only **250 bar**.

Temperature range

-10 °C/+14°F up to

+50°C/122 °F medium temperature

+60°C/140 °F ambient temperature

for a short time up to

+80°C/176 °F allowed

NOTE

Continuous pressure in the hoses considerably shortens their lives. It is recommended not to use them for this kind of application. When using the hoses, one must follow the regulations of the respective state or country.

Flow velocity

This should not exceed 10 m/s. Reference data see table.

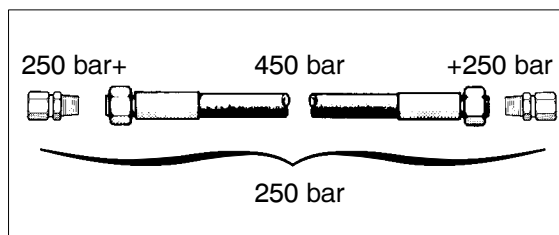


Fig. 64 Hoses

Installation pointer

WARNING

When installing hose lines, make sure they are correctly mounted according to Fig. 65.

- When installing hoses please attempt to make the run of the hose as simple as possible.
- Under pressure, hoses can change slightly in length; therefore plan to allow a little slack in each hose.
- Don't twist the hose when tightening the end fittings under pressure, the hose will return to its original shape and the end fittings may loosen.
- Where necessary, use elbows or angle pieces to eliminate very small bend radii.
- Please take care that the end connections are rigid.

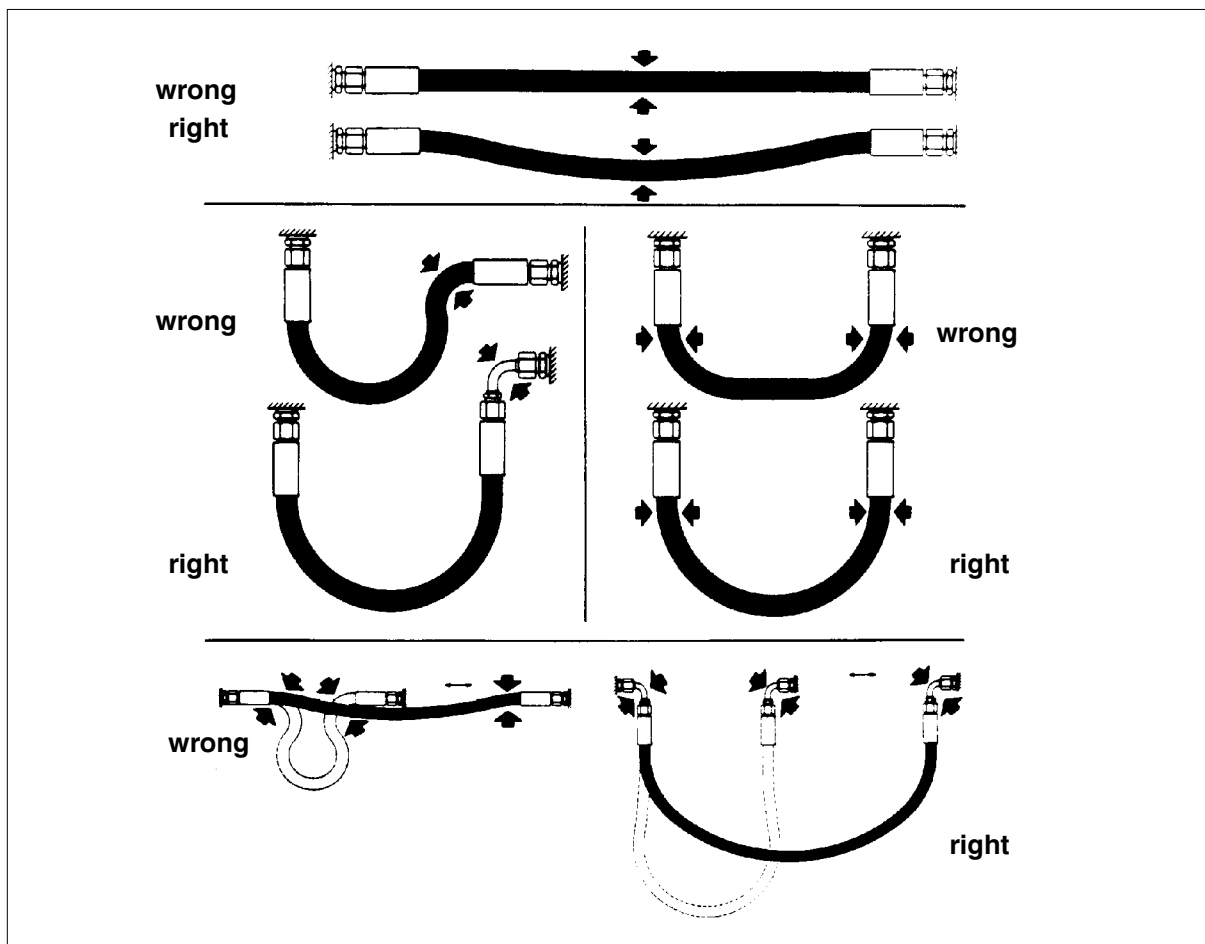


Fig. 65 Hoses

High Pressure Accessories Catalogue

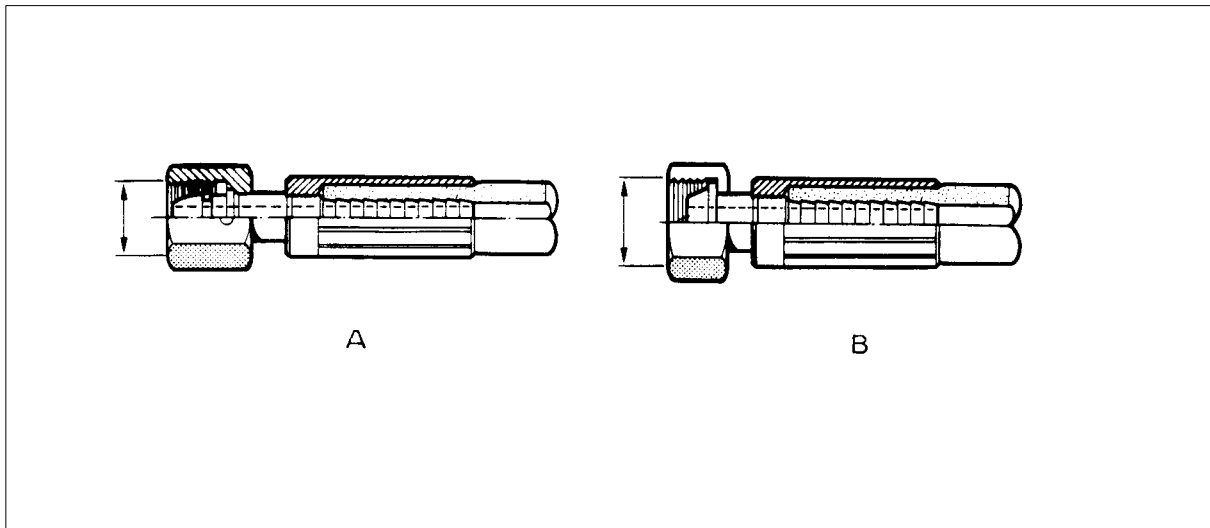


Fig. 66 Hoses

Filling hoses

Order-No.	Length	max. operating press.	Thread	I.D.	for conical nipple
	mm			bar	
N4216	500	450	M 16 x 1.5	6	24°/60°
N2817	1.000	450	M 16 x 1.5	6	24°/60°
N3351	1.500	450	M 16 x 1.5	6	24°/60°
N2818	2.000	450	M 16 x 1.5	6	24°/60°
N2819	3.000	450	M 16 x 1.5	6	24°/60°
N18397	5.000	450	M 16 x 1.5	6	24°/60°
N3657	6.000	450	M 16 x 1.5	6	24°/60°
N20724	9.000	450	M 16 x 1.5	6	24°/60°
N24614	10.000	450	M 16 x 1.5	6	24°/60°
N21707	12.000	450	M 16 x 1.5	6	24°/60°
N22730	15.000	450	M 16 x 1.5	6	24°/60°
N23084	20.000	450	M 16 x 1.5	6	24°/60°
N23146	25.000	450	M 16 x 1.5	6	24°/60°
N23147	30.000	450	M 16 x 1.5	6	24°/60°
N23396	50.000	450	M 16 x 1.5	6	24°/60°
N90018*	600	450	M 16 x 1.5	6	24°/60°

* with stainless steel connector and fittings

22. INTAKE HOSES

Intake hose (Order-No. 014539) for models PURUS to KAP 14, length 3 m, with prefilter consisting of:

- Prefilter (Order-No. 057691)
- Intake hose \varnothing 25 mm = 1" (Order-No. N1005)
- Hose clamp (Order-No. N 2011)

Intake hose (Order-No. 014663) for models KAP 15 and KAP 220, length 3 m, with prefilter consisting of:

- Prefilter (Order-No. 057692)
- Intake hose \varnothing 30 mm = 1 1/4" (Order-No. N 3034)
- Hose clamp (Order-No. N 2011)

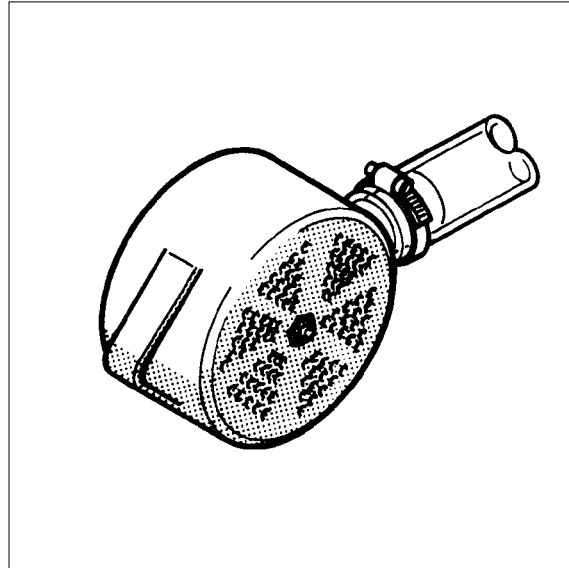


Fig. 67 Intake hose with prefilter

Telescopic tube (Order-No. 055125) for models PURUS to KAP 14, length approx. 2.3 m, assembled height approx. 2.3 m, The intake filter is included in the delivery scope of the compressor unit.

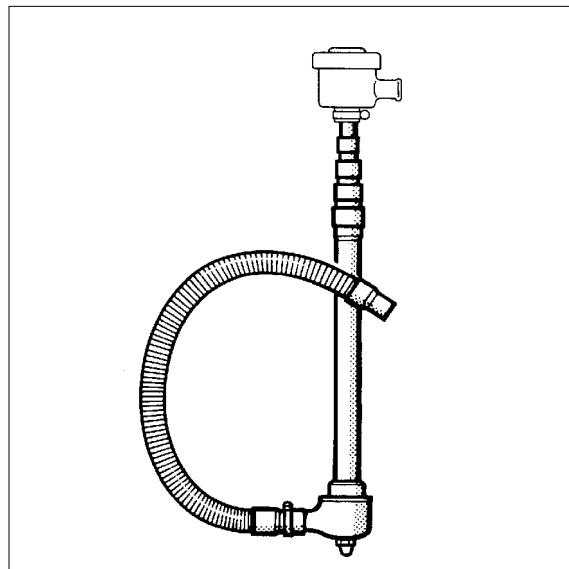


Fig. 68 Telescopic tube

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23. TUBES

Precision stainless steel tubing acc. DIN 2462

- Material-No. 1.4541 – stainless steel
- Standard length approx. 3 m, on request also 6 m long, where a minimum of 15 rods must be ordered.

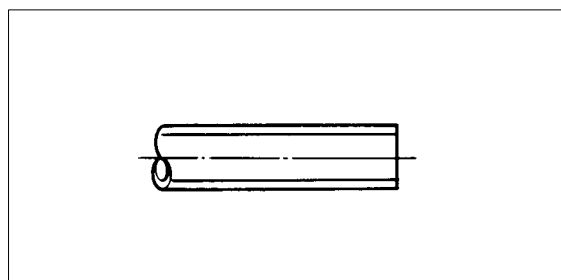


Fig. 69 Precision stainless steel tubing

Order-No.	Max. operating pressure*/bar	Tube Ø outer x wall thickness/mm
N 3616	409	6 x 1.0
N 3617	576	6 x 1.5
N 3618	353	8 x 1.0
N 3619	452	8 x 1.5
N 18356	576	8 x 2.0
N 3620	282	10 x 1.0
N 4699	373	10 x 1.5
N 17973	478	10 x 2.0
N 15098	235	12 x 1.0
N 3621	353	12 x 1.5
N 16242	409	12 x 2.0
N 17118	576	12 x 3.0
N 15130	188	15 x 1.0
N 3622	282	15 x 1.5
N 15504	353	16 x 2.0
N 15934	157	18 x 1.0
N 15467	235	18 x 1.5
N 15466	192	22 x 1.5
N 16255	256	22 x 2.0
N 15836	151	28 x 1.5
N 18278	201	28 x 2.0

* The pressure ratings are calculated acc. to DIN 2413 for an ambient temperature of 20°C. The pressure rating of the tubing drops at higher temperatures, and can be calculated by using an engineering constant.

for example: 50°C : constant 0.945
 100°C : constant 0.885

For an exact calculation see DIN 17440.

Flow velocity: a good approximate value 20m/s, see tables section. When using Ermeto fittings for stainless steel-tube, only use a stainless steel-cutting ring.

24. TUBE FITTINGS**24.1. GENERAL**

Tube fittings, nuts and cutting rings are normally supplied in steel.

All fittings are protected against corrosion by a thin phosphate coating. Available in galvanized or stainless steel at additional price. When ordering, please state desired type. The fittings are made according to the latest DIN standards.

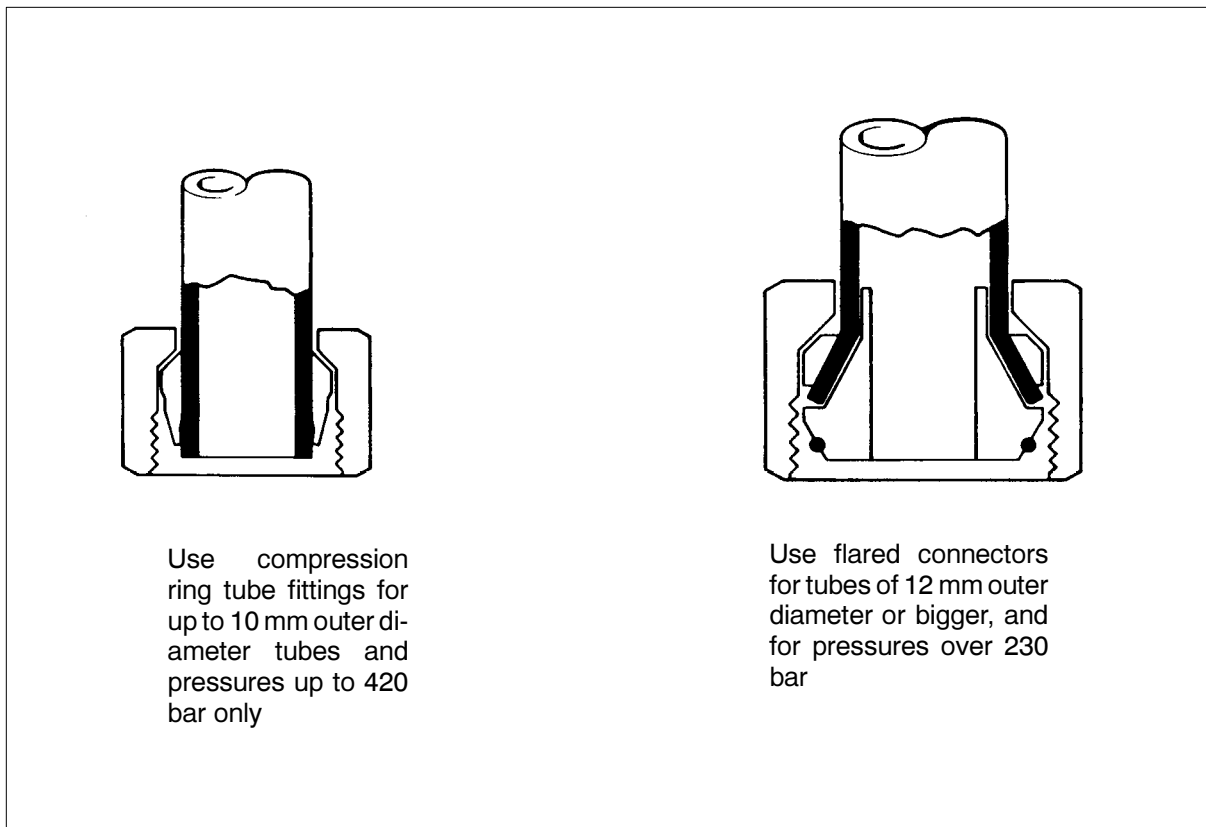


Fig. 70 Fittings

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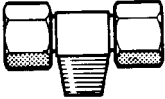

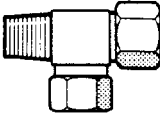
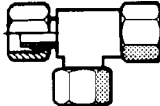

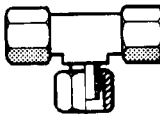
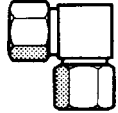
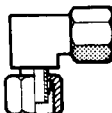
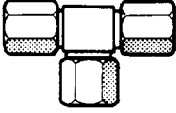

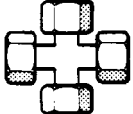


	GEV Straight male stud complete		WSV Elbow bulkhead complete
	WEV Male stud elbow complete		ASV Welding coupling
	TEV Male stud Tee coupling		ESV Welding bulkhead complete
	LEV Male stud L coupling		ELV Adjustable L coupling
	GV Straight coupling		ETV Adjustable T coupling
	WV Equal elbow coupling		EWS Adjustable elbow coupling
	TV Equal T coupling		evGE Adjustable straight male stud
	KV Equal cross coupling		REDVD Reducer
	GSV Straight bulkhead complete		

Fig. 71 Tube fittings

Straight male stud complete

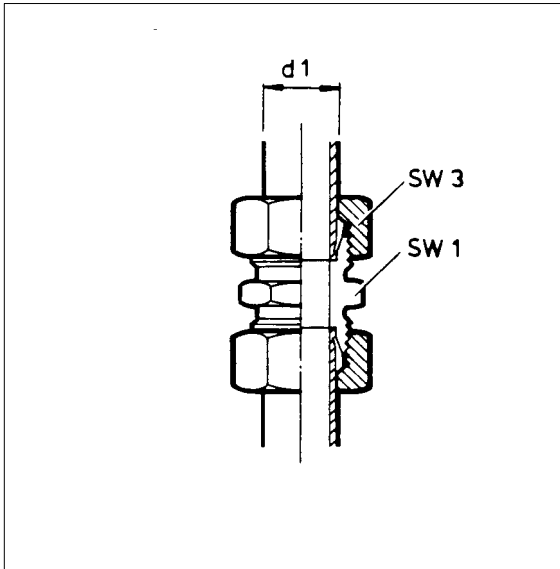


Fig. 72 Straight pipe connector

Order-No.	N.P. bar	Tube O.D. d_1 mm	SW ₁ mm	SW ₃ mm
N 2569	250	6	12	14
N 9234	250	8	14	17
N 7391	250	10	17	19
N 7392	250	12	19	22
N 7393	250	15	24	27
N 7394	160	18	27	32
N 7395	160	22	32	36
N 7396	100	28	41	41
N 3007	630	6	14	17
N 3767	630	8	17	19
N 3429	630	10	19	22
N 18621	630	12	22	24
N 7998	400	16	27	30
N 8010	400	20	32	36

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Straight male stud complete

Thread: B.S.P., parallel

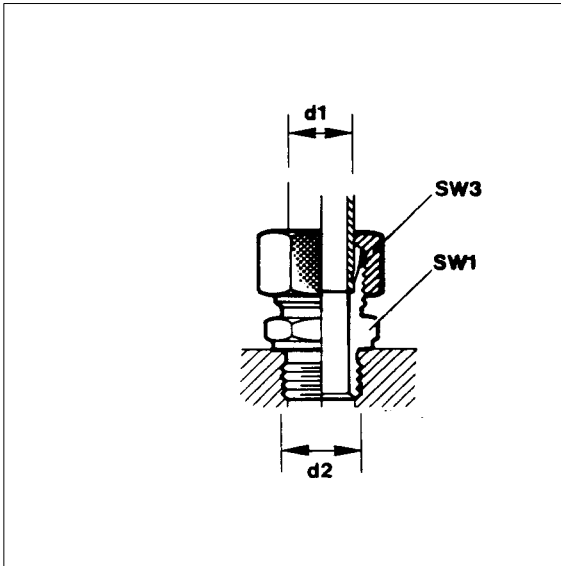


Fig. 73 Straight male stud complete

Order-No. with integrated soft gasket	Order-No.	N.P. bar	Tube O.D. d ₁ mm	d ₂	SW ₁ mm	SW ₃ mm
N 15464	N 15072	250	8	G 1/4	19	17
N 15127	N 3591	250	10	G 1/4	19	19
N 18529	N 15061	250	12	G 3/8	22	22
N 15137	N 4069	250	15	G 1/2	27	27
N 15597	N 15401	160	18	G 1/2	27	32
N 15953	N 4062	160	22	G 3/4	32	36
N 18251	N 7388	100	28	G 1	41	41
N 3816	N 3504	630	6	G 1/4	19	19
N 4687	N 3811	630	8	G 1/4	19	19
N 4024	N 4060	630	10	G 3/8	22	22
N 4680	N 15041	630	12	G 3/8	22	24
N 4019	N 15649	400	16	G 1/2	27	30
	N 8013	400	20	G 3/4	32	36

Straight bulkhead complete

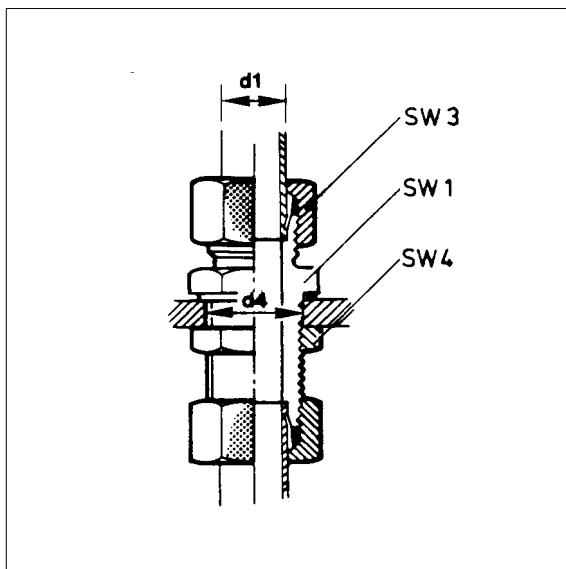


Fig. 74 Straight bulkhead complete

Order-No.	N.P. bar	Tube O.D. d ₁ mm	d ₄ mm	SW ₁ mm	SW ₃ mm	SW ₄ mm
N 3995	250	6	14	17	14	17
N 3172	250	8	16	19	17	19
N 4659	250	10	18	22	19	22
N 4338	250	12	20	24	22	24
N 4619	250	15	24	27	27	30
N 15537	160	18	28	32	32	36
N 4582	160	22	32	36	36	41
N 3083	630	6	16	19	17	19
N 3300	630	8	18	22	19	22
N 4168	630	10	20	24	22	24
N 4683	630	12	22	27	24	27
N 15505	400	16	26	32	30	32
N 15854	400	20	32	41	36	41

High Pressure Accessories Catalogue

Elbow bulkhead complete

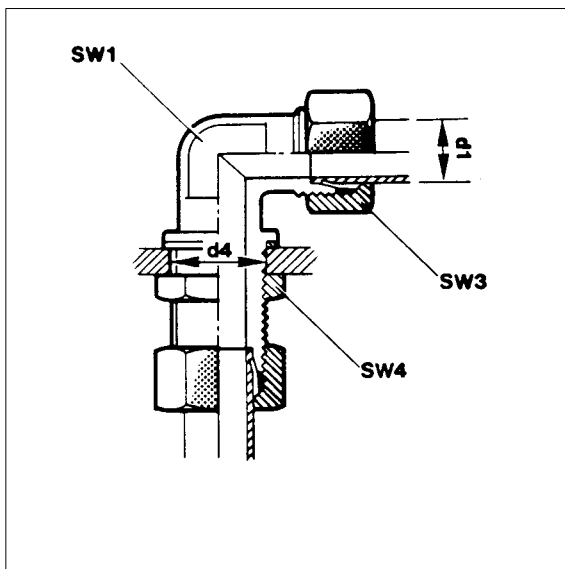


Fig. 75 Elbow bulkhead complete

Order-No.	N.P. bar	Tube O.D. d ₁ mm	d ₄ mm	SW ₁ mm	SW ₃ mm	SW ₄ mm
N 2787	250	8	16	12	17	19
N 15202	250	10	18	14	19	22
N 16271	250	12	20	17	22	24
N 3171	250	15	24	19	27	30
N 18147	160	18	28	24	32	36
N 18155	160	22	32	27	36	41
N 4477	630	6	16	12	17	19
N 4322	630	8	18	14	19	22
N 4658	630	10	20	17	22	24
N 4684	630	12	22	17	24	27
N 18148	400	16	26	24	30	32
N 4932	400	20	32	27	36	41

Male stud elbow complete

Thread: B.S.P., taper

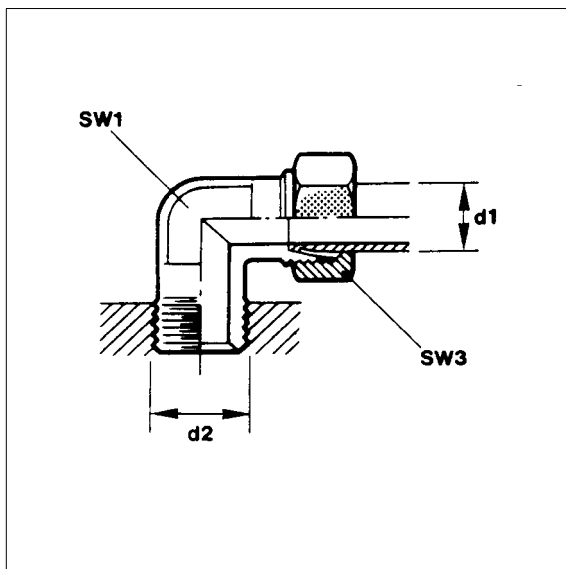


Fig. 76 Male stud elbow complete

Order-No.	N.P. bar	Tube O.D. d_1 mm	d_2	SW ₁ mm	SW ₃ mm
N 1057	250	6	G 1/8	12	14
N 1536	250	8	G 1/4	14	17
N 1065	250	10	G 1/4	17	19
N 2917	250	12	G 3/8	19	22
N 1856	250	15	G 1/2	19	27
N 661	160	18	G 1/2	24	32
N 7403	160	22	G 3/4	27	36
N 1048	630	6	G 1/4	14	17
N 3044	630	8	G 1/4	17	19
N 7727	630	10	G 3/8	19	22
N 4681	630	12	G 3/8	22	24
N 8011	400	16	G 1/2	24	30
N 8026	400	20	G 3/8	27	36

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Equal T-coupling

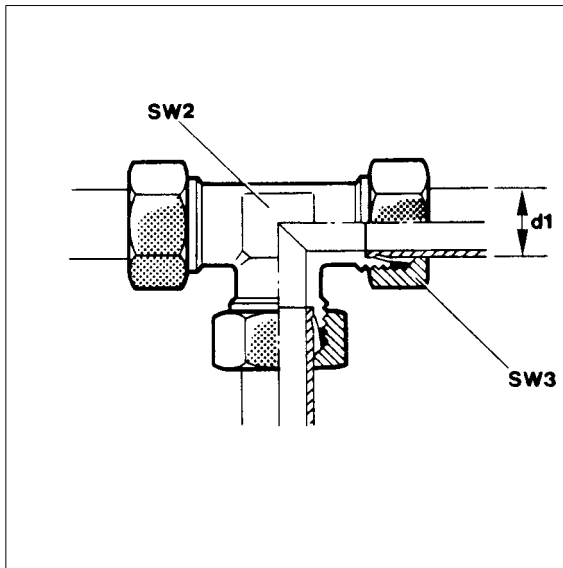


Fig. 77 Equal T-coupling

Order-No.	N.P. bar	Tube O.D. d_1 mm	SW ₂ mm	SW ₃ mm
N 3134	250	6	12	14
N 3025	250	8	14	17
N 3010	250	10	17	19
N 7426	250	12	19	22
N 7425	250	15	19	27
N 7428	160	18	24	32
N 7429	160	22	27	36
N 7513	100	28	36	41
N 3968	630	6	14	17
N 3710	630	8	17	19
N 4922	630	10	19	22
N 17924	630	12	22	24
N 8022	400	16	24	30
N 18149	400	20	27	36

Cutting rings

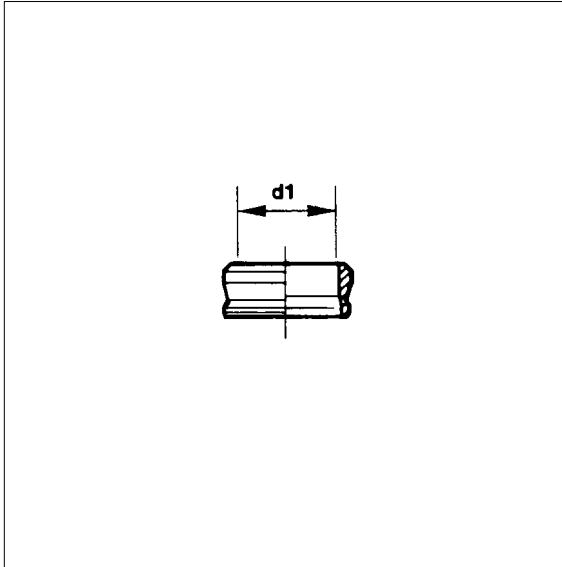


Fig. 78 Cutting ring

Order-No.	N.P. bar	Tube O.D. d ₁ mm	Series
N 3663	250	6	L
N 3609	250	8	L
N 4011	250	10	L
N 7441	250	12	L
N 3614	250	15	L
N 7443	160	18	L
N 7444	160	22	L
N 7445	100	28	L
N 3663	630	6	S
N 3609	630	8	S
N 4011	630	10	S
N 7441	630	12	S
N 4009	400	16	S
N 18154	400	20	S

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Nuts

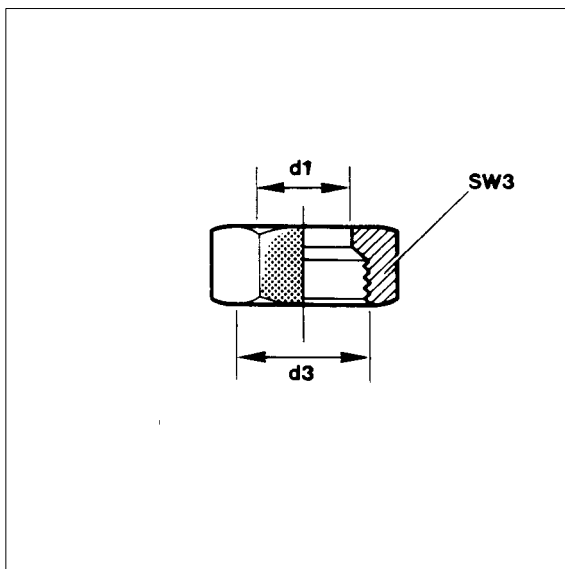


Fig. 79 Nut

Order-No.	N.P. bar	Tube O.D. d_1 mm	d_3	SW ₃ mm	Series
N 7430	250	6	M 12 x 1.5	14	L
N 1049	250	8	M 14 x 1.5	17	L
N 7432	250	10	M 16 x 1.5	19	L
N 7433	250	12	M 18 x 1.5	22	L
N 3613	250	15	M 22 x 1.5	27	L
N 7435	160	18	M 26 x 1.5	32	L
N 7436	160	22	M 30 x 2	36	L
N 7437	100	28	M 36 x 2	41	L
N 3610	630	6	M 14 x 1.5	17	S
N 3608	630	8	M 16 x 1.5	19	S
N 4010	630	10	M 18 x 1.5	22	S
N 15599	630	12	M 20 x 1.5	24	S
N 4008	400	16	M 24 x 1.5	30	S
N 18153	400	20	M 30 x 2	36	S

Straight male stud complete

Thread: B.S.P., taper

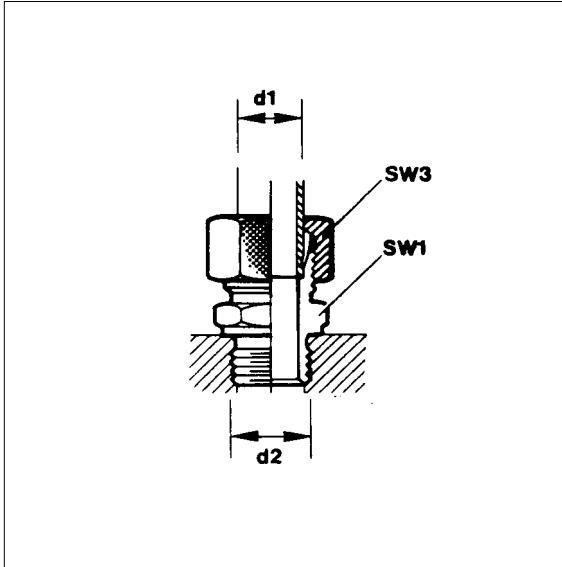


Fig. 80 Straight male stud complete

Order-No.	N.P. bar	Tube O.D. d ₁ mm	d ₂	SW ₁ mm	SW ₃ mm
N 1051	250	6	G 1/8	14	14
N 1063	250	8	G 1/4	14	17
N 2166	250	10	G 1/4	17	19
N 1443	250	12	G 3/8	19	22
N 1509	250	15	G 1/2	24	27
N 902	630	6	G 1/4	19	17
N 2466	630	8	G 1/4	19	19
N 3983	630	10	G 3/8	22	22
N 4022	630	12	G 1/2	27	24

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Equal elbow coupling

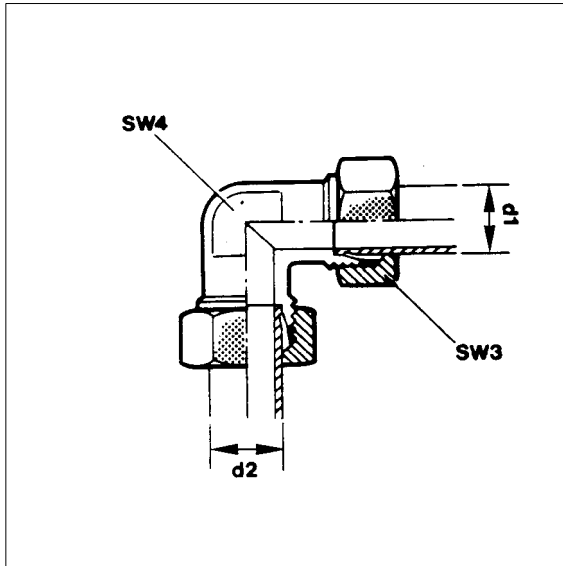


Fig. 81 Equal elbow coupling

Order-No.	N.P. bar	Tube O.D. d_1 mm	SW ₄ mm	SW ₃ mm
N 7405	250	6	12	14
N 18643	250	8	14	17
N 18635	250	10	17	19
N 18150	250	12	19	22
N 9227	250	15	19	27
N 17646	160	18	24	32
N 4843	160	22	27	36
N 3012	630	6	14	17
N 3946	630	8	17	19
N 7728	630	10	19	22
N 18151	630	12	22	24
N 15511	400	16	24	30
N 18152	400	20	27	36

Male stud L coupling

Thread: B.S.P., taper

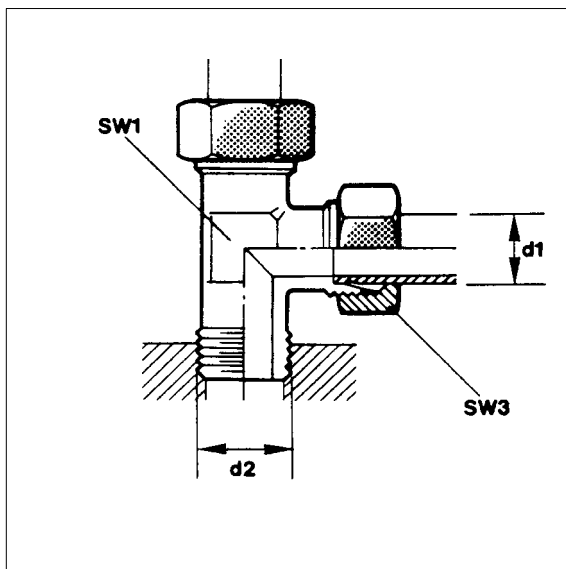


Fig. 82 Male stud L coupling

Order-No.	N.P. bar	Tube O.D. d_1 mm	d_2	SW ₁ mm	SW ₃ mm
N 7410	250	6	G 1/8	12	14
N 2902	250	8	G 1/4	14	17
N 7412	250	10	G 1/4	17	19
N 7413	250	12	G 3/8	19	22
N 7414	250	15	G 1/2	19	27
N 7415	160	18	G 1/2	24	32
N 15015	160	22	G 3/4	27	36
N 2903	630	6	G 1/4	14	17
N 3069	630	8	G 1/4	17	19
N 3142	630	10	G 3/8	19	22
N 3985	630	12	G 3/8	22	24
N 4023	400	16	G 1/2	24	30
N 18156	400	20	G 3/4	27	36

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Male stud tee coupling

Thread: B.S.P., taper

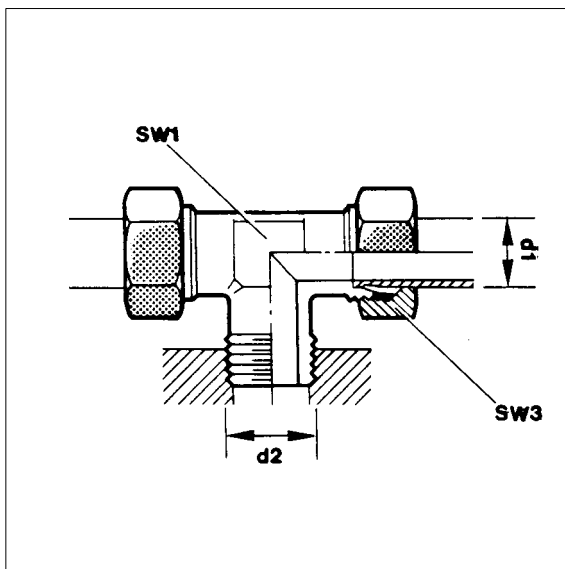


Fig. 83 Male stud tee coupling

Order-No.	N.P. bar	Tube O.D. d ₁ mm	d ₂	SW ₁ mm	SW ₃ mm
N 1106	250	6	G 1/8	12	14
N 1062	250	8	G 1/4	14	17
N 1064	250	10	G 1/4	17	19
N 3580	250	12	G 3/8	19	22
N 7420	250	15	G 1/2	19	27
N 718564	160	18	G 1/2	24	32
N 7422	160	22	G 3/4	27	36
N 2157	630	6	G 1/4	14	17
N 3068	630	8	G 1/4	17	19
N 3984	630	10	G 3/8	19	22
N 17945	630	12	G 3/8	22	24
N 8012	400	16	G 1/2	24	30
N 18157	400	20	G 3/4	27	36

25. MOUNTING ATTACHMENTS

25.1. TUBE CLAMPS

Recommended clamp distance (a) when mounting on a stable surface:

Tube Ø	a
6 – 12 mm	0.9 m
15 – 22 mm	1.2 m

when mounting on a surface subject to vibrations:

Tube Ø	a
6 – 12 mm	0.45 m
15 – 22 mm	0.6 m

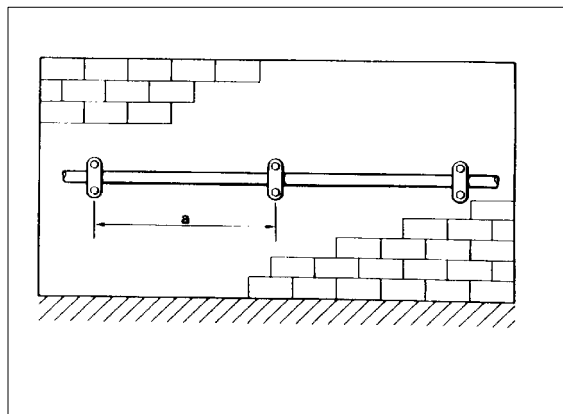


Fig. 84 Clamp distance

Plastic clamps for fastening single tubes:

Order-No.	Tube Ø
N 17269	6 mm
N 17270	8 mm
N 17271	10 mm
N 17272	12 mm
N 15075	15 mm
N 15700	16 mm
N 17273	18 mm
N 17274	20 mm
N 17275	22 mm

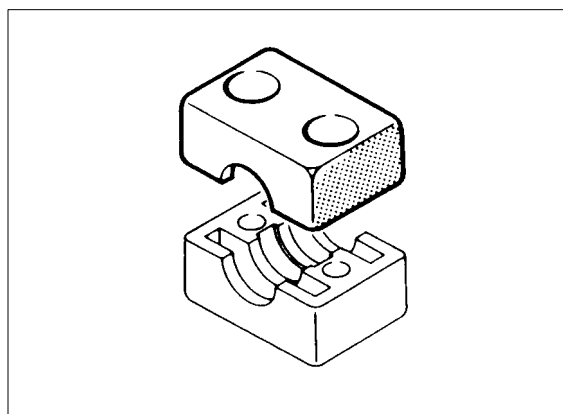


Fig. 85 Plastic clamp

Aluminium clamps for fastening 2 tubes:

Order-No.	Tube Ø
13967	6 – 10 mm

Dowels for wall mounting:

Order-No.	
N 17056	D 14, L 75
N 17699	D 8, L 40
N 24339	D 12, L 60
N 24430	D 6, L 30
N 24654	D 8, L 40
N 3766	D 16, L 50

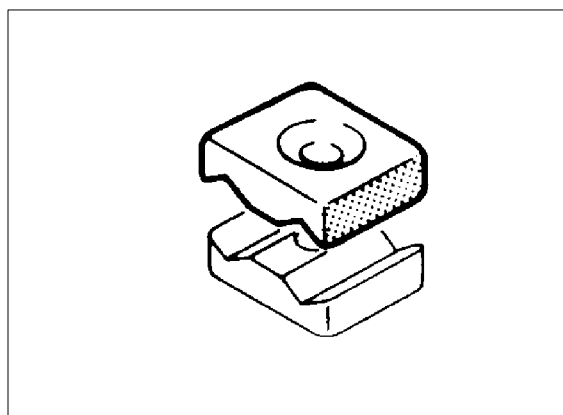


Fig. 86 Aluminium clamp for 2 tubes

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Aluminium clamp for fastening 3 tubes:

Order-No.

Tube Ø

55579

6 – 10 mm

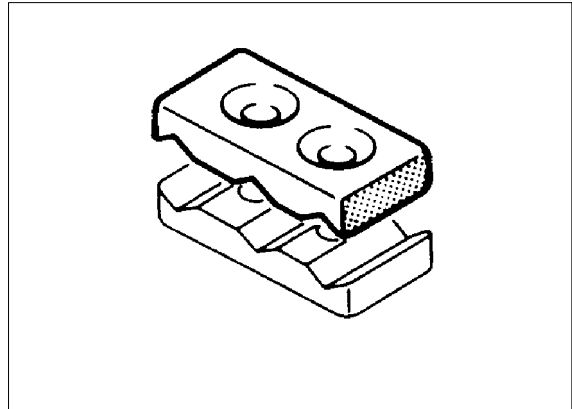


Fig. 87 Aluminium clamp for 3 tubes

Aluminium clamps for fastening 4 tubes:

Order-No.

Tube Ø

55589

6 – 10 mm

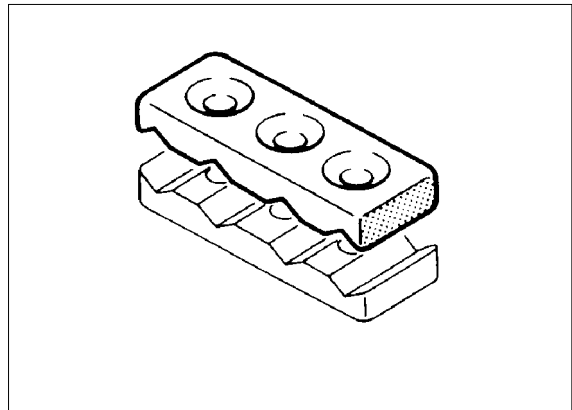


Fig. 88 Aluminium clamp for 4 tubes

25.2. MOUNTING BRACKETS

Mounting brackets for fastening separator and filter housings:

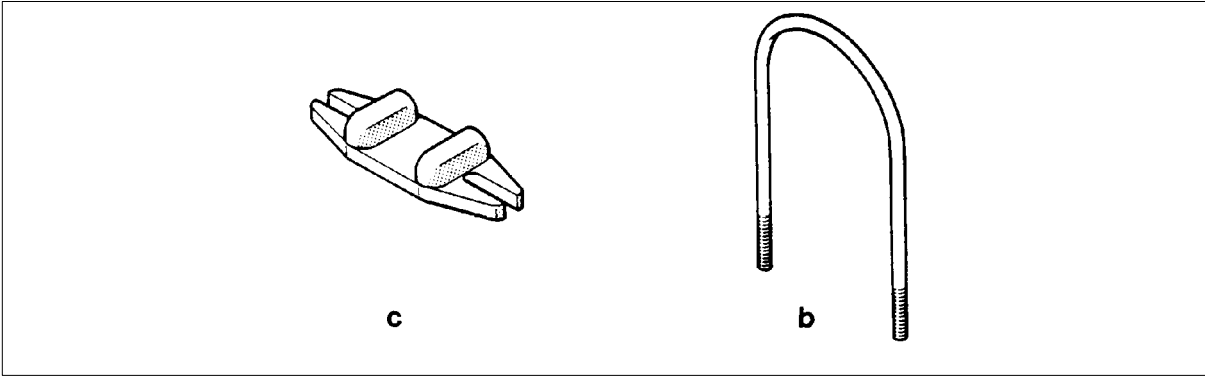


Fig. 89 Mounting bracket

U-bolt (b) Order-No.	Object O.D. (a) mm	Thread O.D. (d) mm	Wall thickness (e) mm	Suitable filter bracket (c) Order-No.
14584	75	8	1 - 8	12917
14946	80	8	1 - 8	12917
61544	97	8	1 - 20	63599
63600	102	8	1 - 5	63599
65831	117	8	1 - 5	63599
58111	125	8	1 - 8	
68817	110	8		67605
68816	124	8		67605
58165	97	8		

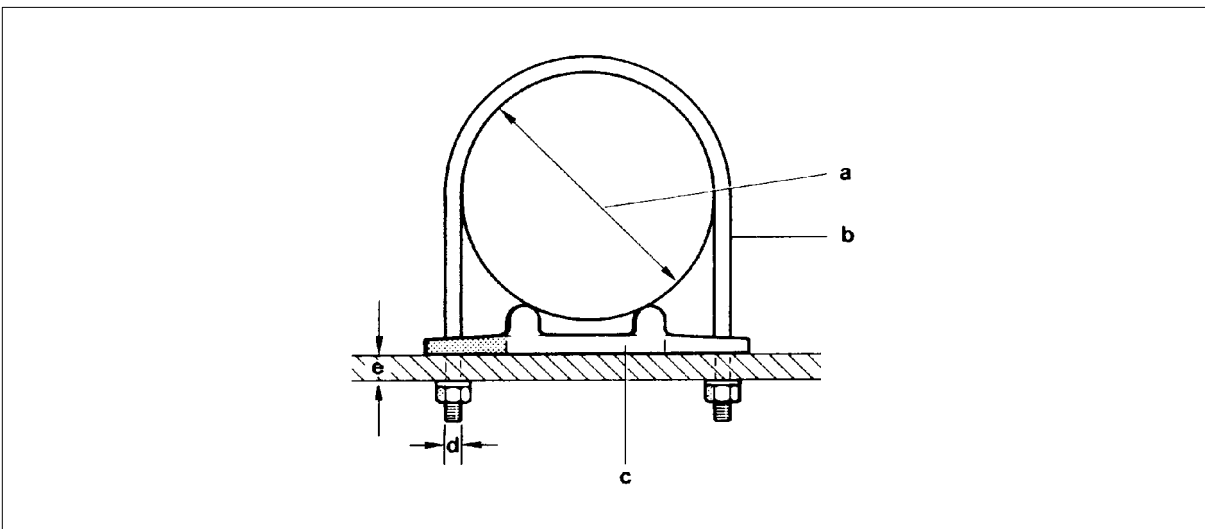


Fig. 90 Mounting bracket diameter

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26. TABLES

26.1. FLOW TABLE FOR TUBES

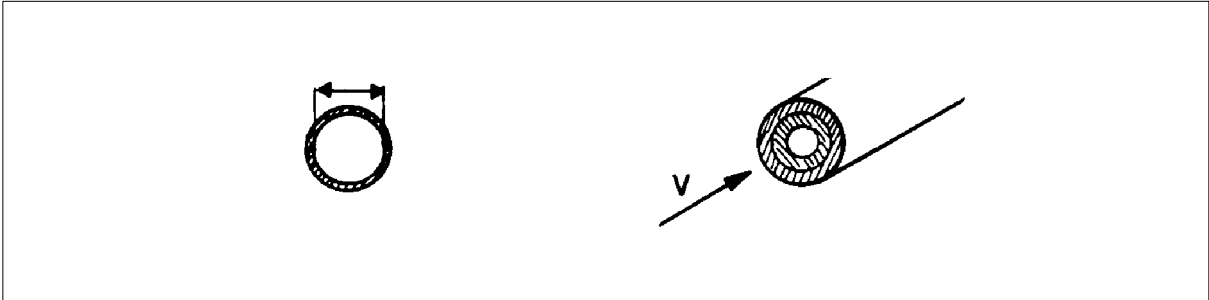


Fig. 91 Tube flow capacity

Tube I.D. mm	Pressure/bar					
	35	64	100	200	300	350
2	0.1	0.2	0.4	0.8	1.2	1.4
3	0.3	0.5	0.8	1.6	2.4	2.8
4	0.5	1.0	1.5	3.0	4.5	5.2
5	0.8	1.5	2.4	4.8	7.2	8.4
6	1.2	2.2	3.4	6.8	10.2	12.0
8	2.1	3.8	6.0	12.0	18.0	21.0
10	3.2	6.0	9.4	18.8	28.2	32.9
12	4.8	8.6	13.6	27.2	40.8	47.6
15	7.4	13.6	21.2	42.4	63.6	74.2

Flow capacity in Nm³/min at a velocity of 20 m/s

26.2. FLOW TABLE FOR HOSES

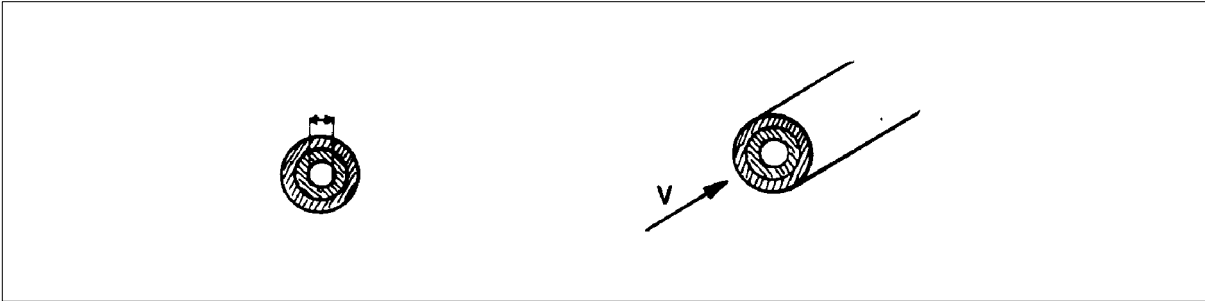


Fig. 92 Hose flow capacity

Hose I.D. mm	Pressure/bar					
	35	64	100	200	300	350
2	0.05	0.1	0.2	0.4	0.6	0.7
3	0.15	0.3	0.4	0.8	1.2	1.4
4	0.3	0.5	0.7	1.4	2.1	2.5
5	0.4	0.7	1.2	2.4	3.6	4.2
6	0.6	1.2	1.7	3.4	5.1	6.0
8	1.0	1.7	3.0	6.0	9.0	10.5
10	1.6	3.0	4.7	9.4	14.1	16.5
12	2.4	4.3	13.6	13.6	20.4	23.8
15	3.7	6.8	21.4	21.4	31.8	37.1

Flow capacity in Nm³/min at a velocity 10 m/s

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