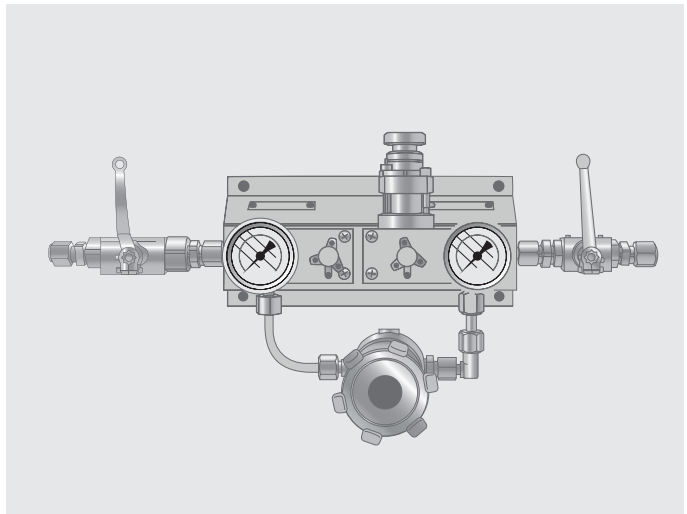
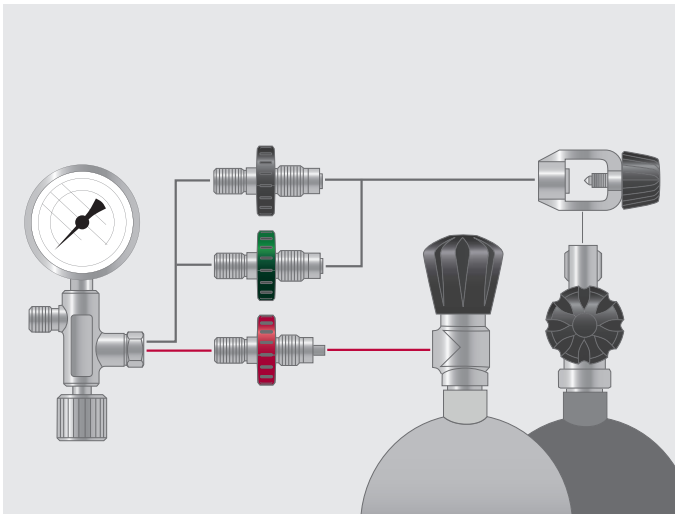
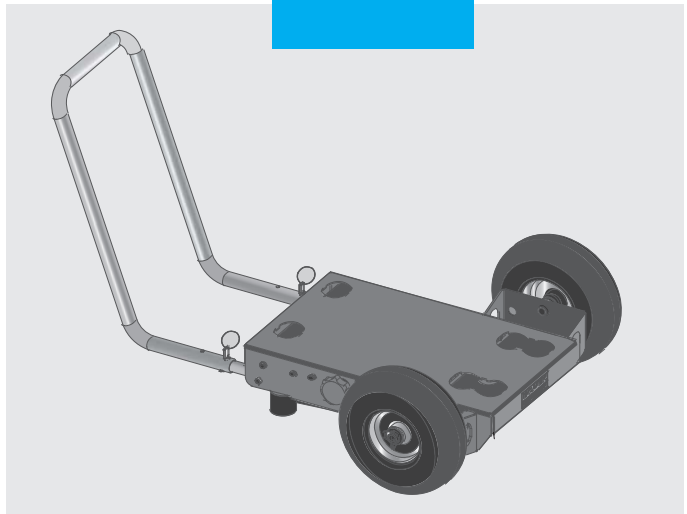


HIGH-PRESSURE ACCESSORIES CATALOGUE

2017 | 2018



SAFETY

PRECISION

INDEPENDENCE

WORLDWIDE





**QUALITY IS THE FOUNDATION
OF OUR BUSINESS**

FURTHER INFORMATION

about a product range and the product shown here can also be found on our website:
www.bauer-kompressoren.de

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PURIFICATION SYSTEMS

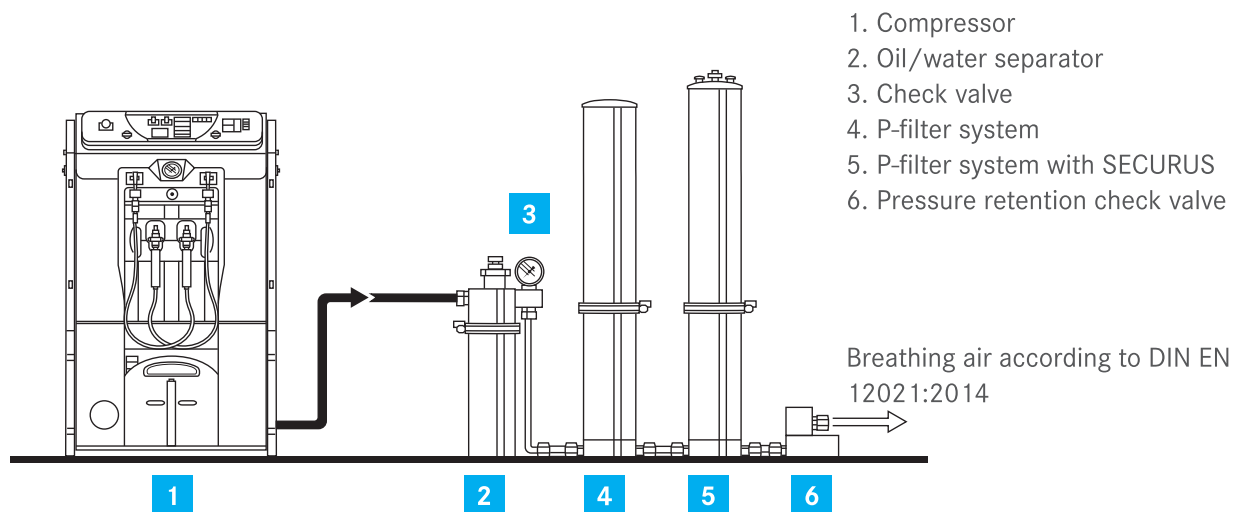
BAUER-P SYSTEM: PURIFICATION OF AIR, HE, AR, N₂

The quality of the highly compressed gases does not meet most requirements, because they may be saturated with up to 100% water vapour, contain oil and particles from the compressor unit, as well as being polluted with odours and flavourings. In addition, purification is also important to avoid corrosion, contamination, icing and the growth of microorganisms. BAUER-P systems adsorb residual moisture, oil vapour, traces of gas on the basis of hydrocarbons and carbon monoxide, depending on the selection of cartridge; for more information, see "Filter cartridges".

BAUER-P systems meet all requirements of DIN EN 12021:2014 for breathing air, or undershoot the limit values by far.*

The compressed medium is first passed through the mechanically operating oil and water separator. Pre-condensed constituents are separated from the air or gas flow in this case. The 100%-saturated medium containing oil vapours now flows through a check valve into the adsorber. Here, in the first layer, the molecular sieve, water vapour and some oil aerosols are removed from the medium by adsorption.

The subsequent activated carbon removes the remaining oil constituents from the air/gas flow, as well as the odours and flavourings. Another molecular sieve as well as a particulate filter purifies the medium further before it leaves the filter cartridge. A pressure retention check valve connected to the outlet piping of the purification system ensures there is always a constant minimum pressure in the system, for optimum purification.



* If the units are maintained and installed correctly as described in the user manual and subject to the BAUER AERO-GUARD being used if CO₂ concentration in the intake air exceeds prescribed standard values. Local TLV values are not considered.

SECURUS SAFETY SYSTEM

FOR YOUR SAFETY

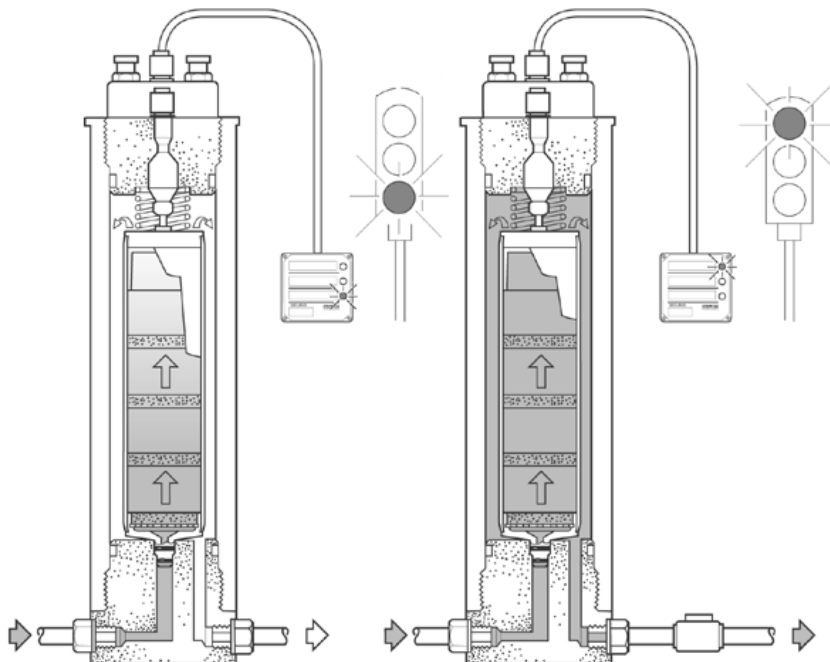
All purification systems from P41/42* onwards can optionally be equipped with our SECURUS safety system (for P21 and P31, we recommend the B-Timer).

The SECURUS system monitors the H₂O saturation of the filter cartridges by measuring the moisture in the molecular sieve and shows this on the display of the BAUER controller as an advance warning in good time; this allows a new cartridge to be inserted at the optimum time.

If the cartridge is saturated and is not changed in good time, SECURUS automatically switches the compressor unit off, and also displays this visually.

SECURUS guarantees optimum dryness of the breathing air according to DIN/EN 12021 and 100% utilisation of the filter cartridge.

The SECURUS system is not suitable for petrol and diesel-operated systems.



* B-Timer is recommended for purification systems P21 and P31; see page 15.

P80 TO P140 PURIFICATION SYSTEMS

FOR SUBSEQUENT UPGRADING OF YOUR COMPRESSOR SYSTEM.

STANDARD SCOPE OF DELIVERY

- › Oil and water separator with cyclone separator and type-tested safety valve as well as manual condensate drain valve. (Automatic condensate drainage at extra cost)
- › System pressure gauge with bleed valve
- › Filter circuit with pressure vessels made of steel or aluminium.
- › Acceptance according to pressure equipment directive.
- › 1 set of filter cartridges
- › Filter key for opening the filter head (cartridge change).
- › Pressure retention check valve. (stainless) with output pressure gauge.
- › All components are mounted on a console and fully piped up.

The size depends on the particular purification system. (P60 – P140)

SECURUS MONITORING UNIT

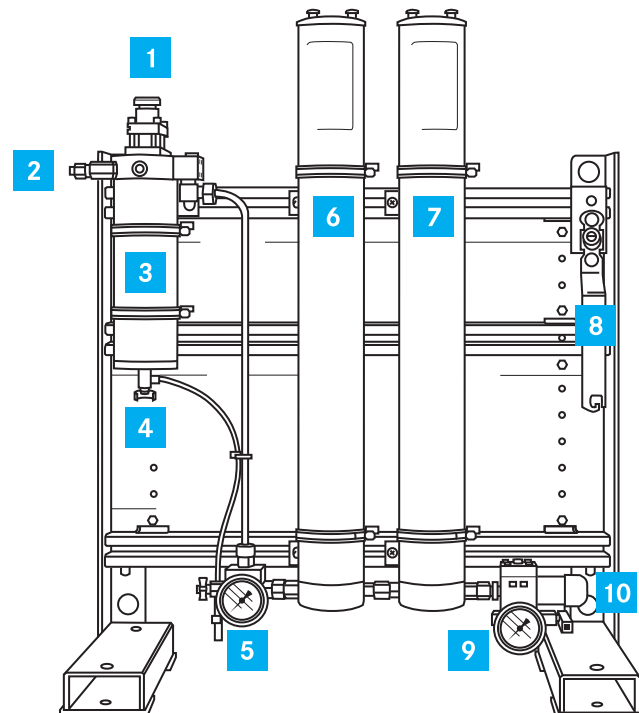
Optional special accessories: For monitoring the moisture content of the dryer cartridges. Displayed messages and actions: System in **operation** **advance warning** **shut-off**

SCOPE OF DELIVERY

- › SECURUS filter housing with measuring head.
- › Connection cable for head and monitoring device
- › 5m N21762-S01 or 10m N21762-S02
- › SECURUS monitoring device

Monitoring device is not required with existing compressor controllers! (COMP-TRONIC or B-CONTROL).

1. Safety valve
2. Pressure input
3. Oil/water separator
4. Condensate drain valve
5. System pressure gauge with bleed valve
6. Drying filter
7. Fine post-cleaner
8. Filter key
9. Pressure retention check valve with output pressure gauge
10. Pressure output



PURIFICATION SYSTEMS

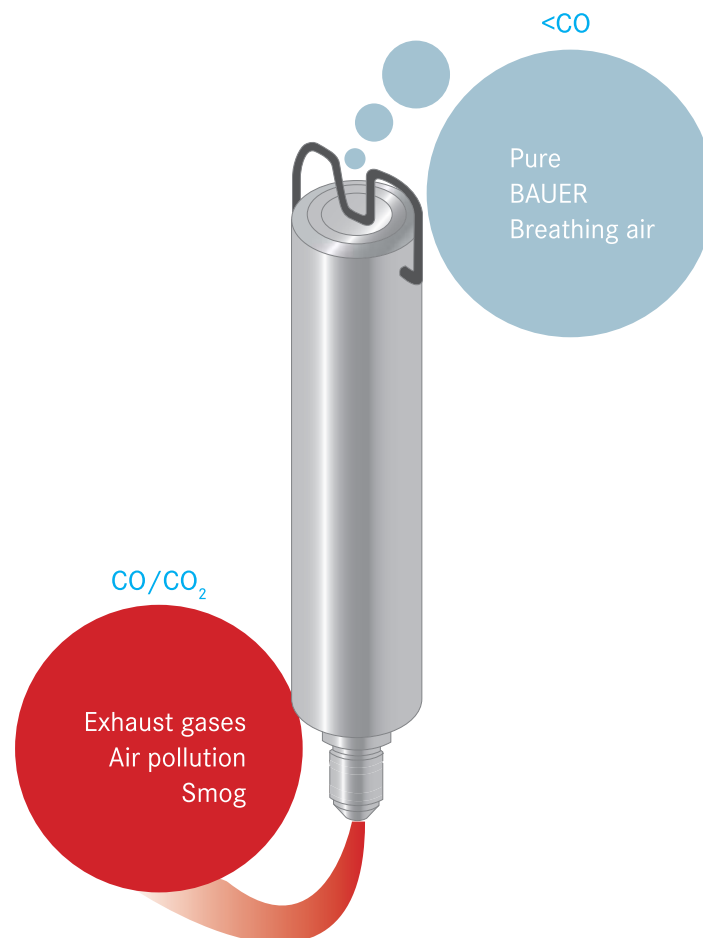
CO CONVERSION

The purity of the air is increased by converting some of the CO into CO₂. This additional catalysis is particularly recommended if you operate your compressor with an internal combustion engine or, due to the location, air contaminated with CO could be drawn in.

The purification systems P21/31/41/42 - P 61 use a special catalyst filter cartridge for this purpose (see also the Replacement cartridges point).

From purification system P 80 onwards, there is an additional filter on the output.

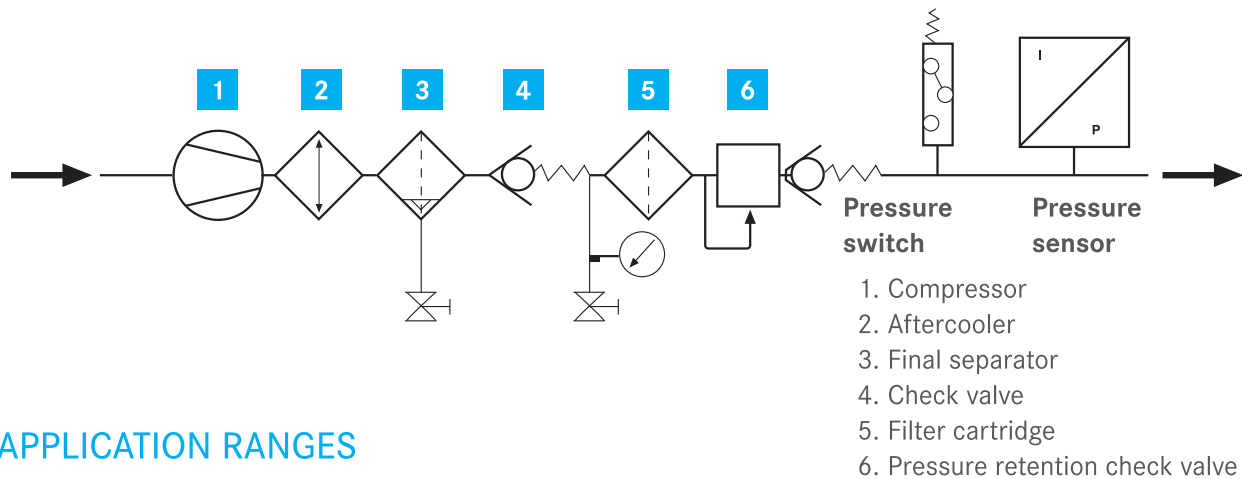
FILTER CARTRIDGES FROM BAUER – THE GENUINE ARTICLES!



PURIFICATION SYSTEMS

PRESSURE SWITCH / PRESSURE SENSORS

As a separate unit for installation in the output line of the P-system after the pressure retention valve, for switching off the compressor when the final pressure is reached.



APPLICATION RANGES

- › **Pressure switch:** HardWired controllers
- › **Pressure sensor:** Electronic controls (e.g. B-Control)

P-PURIFICATION SYSTEMS CONSTRUCTION KIT FOR INSTALLATION

Loose components without fastening and piping material.
P-purification systems with special equipment on request.

Please tell us what you need.
We will be happy to advise you.



FILTER CARTRIDGES

All purification systems meet or undershoot the limits of DIN EN 12021:2014 and the European Pharmacopoeia.

The gas is purified in the following sequence, depending on the cartridge type used:

- › Coarse removal of oil/ and water droplets: with oil and water separator.
- › Removal of water vapour H_2O : with molecular sieve, MS
- › Removal of oil vapour and odours C_xH_y : with activated carbon, AC also optional or standard with breathing air
- › Conversion of carbon monoxide CO into CO_2 : with hopcalite (optional)
- › Remove of coarse particles: with the filter discs of the filter cartridges

TECHNICAL DATA*

- › **Oil/aerosols:** < 0.1 mg/m³ (according to new DIN EN 12021:2014 max. 0.5 mg/m³)
- › **Carbon monoxide (CO):** < 5 ml/m³ (according to new DIN EN 12021:2014 max. 5 ppm)
- › **Carbon dioxide (CO₂):** < 500 ppm (V/V)
- › **Water vapour:** < 10 mg/m³ (according to new DIN EN 12021:2014 max. 25 mg/m³)
- › **Odour/flavour:** odourless and flavourless



The purification systems and corresponding individual cartridges are presented below. We will be happy to advise you on cartridges for special applications.

* If the units are maintained and installed correctly as described in the user manual and subject to the BAUER AERO-GUARD being used if CO₂ concentration in the intake air exceeds prescribed standard values. Local TLV values are not considered.

P-SYSTEMS FILTER CARTRIDGES

| Purification systems | Air purification | | | | | |
|----------------------|----------------------------|--------------------------------|---|--------------------------------|----------------------------|--------------------------------|
| | DIN EN 12021:2014 | CO converter DIN EN 12021:2014 | with SECURUS + CO converter DIN EN 12021:2014 | with SECURUS DIN EN 12021:2014 | Industrial without SECURUS | Industrial with SECURUS |
| | AC/MS drying / oil removal | AC/MS-CO breathing air / CO | AC/MS-CO-SEC breathing air / CO | AC/MS-SEC breathing air | AC/MS oil removal / drying | AC/MS-SEC oil removal / drying |
| P21 | 1x057679 | 059183 | — | — | — | — |
| P31 | 1x 80100 | 80114 | — | — | — | — |
| P40 | 1x062565 | 067224 | 1x061687 | 1x061686 | — | — |
| P41 | 1x062565 | 067224 | 1x061687 | 1x061686 | — | — |
| P42 | 1x 062565 | 067224 | 1x061687 | 1x061686 | — | — |
| P60 | 1x058826 | 058827 | 1x060037 | 1x060036 | 1x068622 | 1x090984 |
| P61 | 1x058826 | 058827 | 1x060037 | 1x060036 | 1x068622 | 1x090984 |
| P80 | 1x058825 | 058825 | 1x058825 | 1x058825 | 1x058823 | 1x058823 |
| | 1x058826 | 058827 | 1x060036 | 1x060036 | 1x068622 | 1x090984 |
| P81 | 1x058825 | 058825 | 1x 058825 | 1x058825 | 1x058823 | 1x058823 |
| | 1x058826 | 058827 | 1x060036 | 1x060036 | 1x068622 | 1x090984 |
| P 100 | 2x 058825 | — | 2x058825 | 2x058825 | 2x058823 | 2x058823 |
| | 1x058826 | — | 1x060036 | 1x060036 | 1x068622 | 1x090984 |
| P 101 | 2x 058825 | — | 2x058825 | 1x058825 | 2x058823 | 2x058823 |
| | 1x058826 | — | 1x060036 | 1x060036 | 1x068622 | 1x090984 |
| P 120 | 1x067099 | — | 1x067099 | 1x067099 | 1x067812 | 1x067812 |
| | 1x067867 | — | 1x067097 | 1x067097 | 1x067867 | 1x068067 |
| P 140 | 2x067099 | — | 2x067099 | 2x067099 | 2x067812 | 2x067812 |
| | 1x067867 | — | 1x067097 | 1x067097 | 1x067867 | 1x067097 |

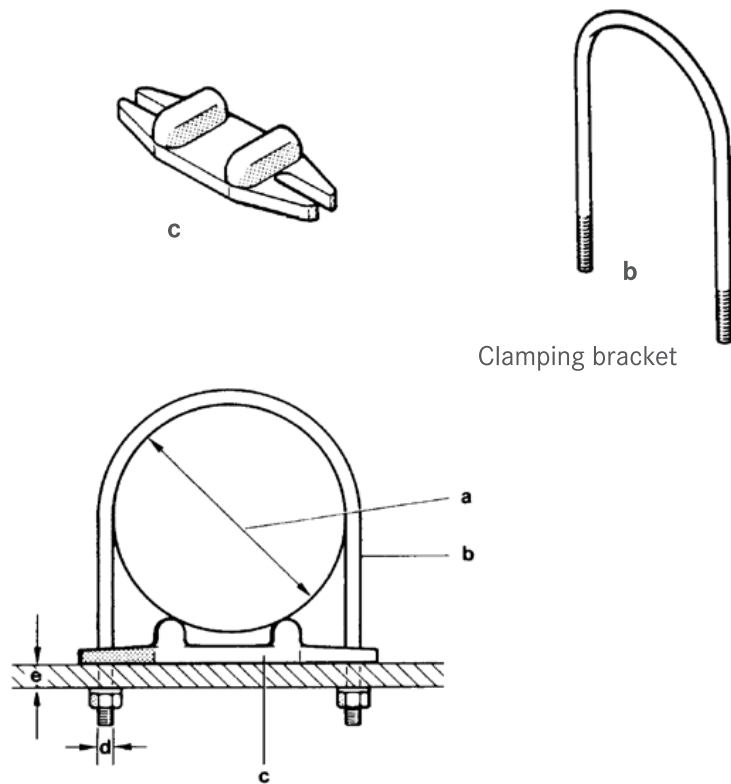
AC...activated carbon | MS...molecular sieve | CO...carbon monoxide | SEC...Securus connector

NOTES



CLAMPING BRACKET

CLAMPING BRACKET FOR ATTACHING SEPARATOR AND FILTER HOUSINGS:



Clamping bracket

Self-locking M8 nut Order no. N 370
 U-washer Order no. N 58
 2 of each are required.

| Internal diameter | Thread diameter | Wall thickness | Clamping bracket | filter support for this |
|-------------------|-----------------|----------------|------------------|-------------------------|
| mm | mm | mm | Order number | Order number |
| (a) | (d) | (e) | (b) | (c) |
| 76 | M8 | 1 - 8 | 14584 | 12917-M |
| 80 | M8 | 1 - 8 | 14946 | 12917-M |
| 97 | M8 | 1 - 20 | 61544 | 63599-M |
| 110 | M8 | 1 - 5 | 68817 | 63599-M |
| 117 | M8 | 1 - 5 | 65831 | 63599-M |

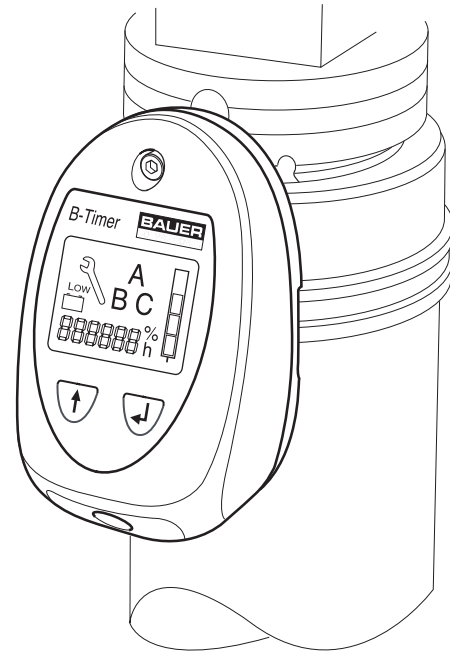
P-FILTER MONITORING/B-TIMER

The filter cartridge change with the B-Timer is safe, easy and economical.

The minicomputer counts the operating hours and reliably shows the cartridge service life. Clear signals are output when cartridges need to be changed or maintenance is due.

The B-Timer can be fitted or retrofitted to all mobile BAUER compressors.

Easiest possible installation – a screwdriver is all it takes.



TECHNICAL DATA

- › monitoring: P21 and P31 purification systems for 200 bar and 300 bar in Compact Line, Profi Line (II) and PE-HE and -TE -TE models
- › Battery service life: approx. 3 years at 500 hours/year
- › Operating hours counter: integrated
- › Display: Maintenance, maintenance kit, cartridge saturation level, cartridge number, starts and stops automatically
- › Properties: protection against dust and water spray, insensitive to strong sunshine, high air humidity and sand

| Designation | Order number |
|------------------------------------|--------------|
| B-Timer | N27286 |
| Replacement battery | 82743 |
| Hose clamp P21 / P31 (80-100 mm) | 166310 |
| Hose clamp P41 (90-110 mm) | N15499 |
| Hose clamp P61 / P101 (100-120 mm) | 82649 |

CO₂ REMOVAL / AERO-GUARD

FOR REDUCING THE CO₂ CONTENT IN COMPRESSED BREATHING AIR.

CO₂ pollution is increasing steadily in our environment. BAUER compressors offer an efficient way to clean CO₂ out of the breathing air.

An ingenious bypass system passes the drawn-in air through the AERO-GUARD. Only about two thirds of the air flows through the filter cartridge, which adsorbs the CO₂. In this way, the CO₂ content is reduced to one third of the value in the drawn-in air – far below the strict limits of DIN 12021. At the same time, the AERO-GUARD achieves long filter service lives.



TECHNICAL DATA

- › **For delivery rates:** from 100-680 l/min in Aero-Guard-Duo up to 1000 l/min
- › **Input concentration:** max. 1000 ppm-vol. CO₂
- › **Output concentration:** max. 330 ppm-vol. CO₂ = approx. 1/3 of the input concentration
- › **Service life:** min. 50 hrs. at (600 l/min and 1000 ppm-vol.), correspondingly longer with lower delivery rate
- › **Rel. humidity:** 0 - 100% of the drawn-in air
- › **Temperature range:** +5 °C - +45 °C
- › **Dimensions:** WxDxH 50x46x72
- › **Operating weight:** 26 kg

Filter can be changed without tools.

SCOPE OF DELIVERY INCLUDES

With Aero-Guard S-XXL:

1x filter cartridge (9kg special carbon dioxide absorbency)
10x Micropur sterilisation tablets

With Aero-Guard-Duo 1000:

2x filter cartridge (9 kg special carbon dioxide absorbency)
20x Micropur sterilisation tablets

Please order appropriate connecting hoses separately.
(see accessories)

| Designation/Size | suitable for free air deliveries | Dimensions (W x D x H) | Operating weight incl. filter and water |
|---------------------|----------------------------------|------------------------|---|
| | l / min.* | cm | Litre/bar |
| Aero-Guard-S | 100 – 150 | | |
| Aero-Guard-M | 160 – 230 | | |
| Aero-Guard-L | 240 – 320 | 50 x 46 x 72 | 26 |
| Aero-Guard-XL | 330 – 450 | | |
| Aero-Guard-XXL | 460 – 680 | | |
| Aero-Guard DUO-1000 | 650 – 1000 | 85 x 63 x 87 | approx. 55 |

| Accessories | Hose internal diameter LP / LP | Application range | Order number |
|--|--------------------------------|--|--------------|
| Intake hose, input side | | | |
| Intake hose cpl. | 60/60 | | 79377 |
| intake piece with sleeve ¹⁾ | 100/60 | | 79423 |
| Intake hose to intake piece 79423 ¹⁾ | | | N25150 |
| Intake hose, output side | | | |
| Intake hose cpl. | 60/40 | open systems | 83336 |
| Intake hose cpl. | 60/60 | IK100II - IK120II, | 79377 |
| Intake hose cpl. | 60/40 | IK12.14II | 83337 |
| Intake hose cpl. | 60/60 | open systems | 79378 |
| Intake hoses, output side, for older compressor models | | | |
| Intake hose cpl. | 60/32 | open systems K100 - K120 (with intake filter 013758); produced before July 2004, K15 (with intake filter 056372) | 79376 |
| Intake hose cpl. | 60/25 | K100 - K120 (with intake filter 013758); produced before July 2004, | 79422 |
| Replacement filter cartridge | | | |
| Filter cartridge incl. 10x water disinfection tablets for every 10 litres of water | | | 79050 |

* Delivery quantity of the connected compressor measured with cylinder filling from 0 – 200 bar ±5%.

1) Order hose ND 100 separately; length as required, however not more than 20m; order no. N25150

B-KOOL

A long filter service life or capacity is decisive for cost-effective operation of professional diving stations. The temperature of the compressed medium has a significant influence on this.

Our B-Kool extends the service life of filter cartridges many times over, it is equipped with an integrated separator as well as automatic condensate drain and removes a large proportion of the humidity before it can get into the filter system.

TECHNICAL DATA

- › **Medium:** Air
- › **Operating temperature:** + 5 - + 45 °C
- › **Input temperature:** max. + 60 °C
- › **Maximum operating pressure:** 350/500 bar
- › **Minimum operating pressure:** 100 bar
- › **Delivery quantity range:** 200 - 700 l/min
- › **Power consumption:** max. 550 W at 50 Hz

| Options | PROFI-LINE | MV III | KAP | PE TE/HE | PE VE/ OPEN | VERTICUS 5 | PE VE/SILENT |
|-------------------|------------|--------|---------------------------|----------|----------------|--|--------------|
| Model | | | B-KOOL 680s ¹⁾ | | | B-KOOL 680i ²⁾ /B-KOOL 680s ¹⁾ | |
| P41 filter system | ● | ● | ● | | | ● | |
| P61 filter system | | ● | ● | | ● | ● | ● |

● ex-works or can be retrofitted | ○ Only ex-works, no retrofitting possible

| Operating pressure PN-max | Voltage range | Frequency |
|--|---------------|-----------|
| B-Kool 680i Use V5,PE,VE Weight 50 kg Dimensions 75x35x53 cm (WxHxD) | | |
| 350 bar | 200-240 VAC | 50/60 Hz |
| 500 bar | 200-240 VAC | 50/60 Hz |
| B-Kool 680s Use Profi Line, PE HE, PE Ve, MV, V5 Weight 48 kg Dimensions 38.5x70,53.5 cm (WxHxD) | | |
| 350 bar | 200-240 VAC | 50/60 Hz |
| 500 bar | 200-240 VAC | 50/60 Hz |

1) No retrofit possible with the PE-series with P42 filter system | 2) Integrated in the system by the client 3) Only with PE 250 HE and PE 300 TE/HE

| INSTALLATION MATERIAL | | | B-KOOL 680i integrated | B-KOOL 680s (stand-alone) |
|-----------------------|---------------|----------------|---------------------------|------------------------------|
| for compressor units: | Filter system | Pressure range | Order no. | Order no. |
| VERTICUS / PE-VE | P 41 / P 61 | 350 bar | 129016 | 129018 |
| VERTICUS | P 81 | 350 bar | 129017 | 129019 |
| VERTICUS PE-VE | P 41 / P 61 | 420 bar | 129056 | 129060 |
| VERTICUS | P 81 | 420 bar | 162246 | |
| MINI-VERTICUS III | P 41 / P 61 | 350 bar | | 160028 |
| MARINER 200/250/320 | P 41 | 350 bar | | 129021 |
| VERTICUS | P 61 | 500 bar | 172323 | 172324 |

AEROTEST-SIMULTAN HP

Increasing damage to the environment and enforced regulations for breathing air quality such as DIN EN 12021:2014 mean that the requirements to be met by the operators of filling stations are getting stricter all the time. With the portable AEROTEST Simultan HP, you will always be on the safe side.

The test tubes used make it possible to check compliance with the limit values for CO, CO₂, water vapour and oil vapour simultaneously (using the new "Impactor"), and reliably in the compressed air. The device is designed so that incorrect measurement results due to mishandling are practically ruled out. Preliminary calibration is no longer required. The pressure reducer and the special nozzles in the test tube adaptor provide a constant flow and consistent measuring accuracy.

TECHNICAL DATA

- › **Input pressure:** 10 to 300 bar
- › **Test time:** 5 min
- › **Flow rate:** 0.2 and 0.4 l/min
- › **Connection:** G 5/8"
- › **Weight:** approx. 3kg
- › **Case dimensions:** 35x30x8cm (WxDxH)



PRODUCT INFORMATION

The AEROTEST-SIMULTAN HP is suitable for a pressure range from 10 to 300 bar. The AEROTEST-ALPHA LP is designed for the pressure range up to max. 15 bar. An Impactor adapter with an inserted impactor is used for measuring the remaining oil content.

| Article | Order number |
|---|--------------|
| AEROTEST-SIMULTAN HP (complete in test case with all accessories) | N31565 |
| AEROTEST-ALPHA LP (complete in test case with all accessories) | N25537 |
| Replacement article | |
| Test tubes for CO (box with 10 tubes) | N15523 |
| Test tubes for CO ₂ (box with 10 tubes) | N15522 |
| Test tubes for H ₂ O (box with 10 tubes) | N25535 |
| Impactors for oil (box with 10 impactors) | N31173 |
| Test tubes for oil (box with 10 tubes) | N15521 |
| Impactor adapter | N31184 |
| Test tube opener | N25813 |
| Pressure reducer with G 5/8" hand connector | N25815 |

B-DETECTION PLUS

The B-DETECTION PLUS is designed as a permanently installed measurement system for online monitoring of CO₂, CO, O₂, absolute humidity and VOCs (oil) in compressed breathing air. If limits are exceeded, the control system shows a visual warning signal an alarm on the display and automatically shuts off the system. The system is available in two versions:

The B-DETECTION PLUS i, integrated into a MINI-VERTICUS or VERTICUS, and the B-DETECTION PLUS s, a standalone version suitable for all other BAUER compressors with control units and for retrofitting to other existing systems. The measurements can be saved in the B-CONTROL MICRO data logger, simply transferred to a computer using a SD card and read in Excel format.



- › Alarm and fault warnings when limits specified in EN 12021:2014 are exceeded¹
- › Direct connection to compressor control unit (B-CONTROL MICRO or B-CONTROL II) possible
- › Available integrated into the compressor or standalone version

TECHNICAL DATA SENSOR MODULE

| B-DETECTION PLUS | Integrated | Standalone |
|---|--|--|
| › Medium | Air; nitrox (max. 40% O ₂) | |
| › Permissible operating pressure (inlet AIRBOX) | Max. 350 bar (higher pressures on request) | |
| › Permissible charging rate (inlet AIRBOX) | Max. 850l/min (higher charging rates on request) | |
| › Permissible operating temperature | +5°C ... +45°C | |
| › Permissible storage temperature | -10°C ... +50°C | |
| › Max. permissible impact stress | 2 g | |
| › Operating pressure (sensors) | Ambient air pressure (approx. 1013mbar) | |
| › Maximum permissible ambient humidity | 0 to 90% non-condensing | |
| › Permissible operating environment | Non-explosive | |
| › Operating voltage / frequency | 24 VDC | 100 - 250 VAC, 50/60 Hz |
| › Power consumption | Connection via compressor | Max. 50 W |
| › Flow rate (compressed air flow) | 1.0 ... 3.0 l/min | |
| › Outputs | - | 3 relay outputs |
| › Serial connection | Modbus RS485 (internally used) | CAN-Bus, Profibus DB optional with gateway, ethernet interface |
| › Gas intake connector | 6 mm | |
| › Weight | 3 kg | 8.5 kg |
| › Dimensions (H x W x D) | 160 x 260 x 92 mm | 462 x 354 x 184 mm |

1) Humidity and VOC measurement (volatile organic compounds) as option

NOTES

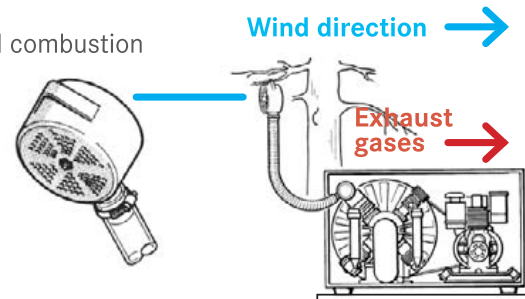
INTAKE PRE-FILTER

Intake pre-filters are connected to the existing intake filter on the compressor by means of a hose. They are provided for keeping away coarse impurities such as leaves, paper or other foreign bodies as well as for positioning the intake point where the intake air is cleaner.

Particularly important in breathing air-compressors with an internal combustion engine!

TECHNICAL DATA

- › **Filter fineness of the pre-filter:** approx. 3 mm Ø
- › **Air flow rate:** up to 600 l/min



FOR COMPRESSOR TYPES: UTILUS, CAPITANO, MARINER, KAP14, K100, K120, K12.14
UP TO YEAR OF MANUFACTURE 2004

| Designation | Order number |
|---|--------------|
| intake pre-filter complete with hose and clamp | 014539-KD |
| Scope of delivery | |
| Pre-filter | 057691 |
| Intake hose 3 m length, internal diameter 25 mm | N1005 |
| Hose clamp | N2011 |

FOR COMPRESSOR TYPES: KAP 15, K150, K180

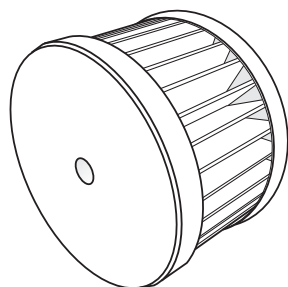
| Designation | Order number |
|---|--------------|
| intake pre-filter complete with hose and clamp | 014663 |
| Scope of delivery | |
| Pre-filter | 057692 |
| Intake hose 3 m length, internal diameter 30 mm | N3034 |
| Hose clamp | N2011 |

FOR COMPRESSOR TYPES: UTILUS-II, CAPITANO-II, MARINER-II, K100-II, K120-II, K12.14,
KAP 15, K150, K180 (FROM 03/2004 ONWARDS)

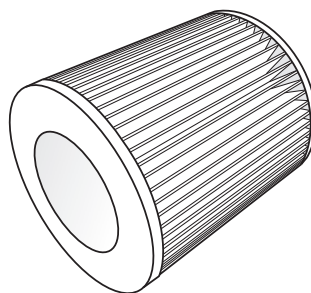
| Designation | Order number |
|---|--------------|
| intake pre-filter complete with hose and clamp | 82946 |
| Scope of delivery | |
| Pre-filter | 057691 |
| Intake hose 3 m length, internal diameter 40 mm | N27481 |
| Hose clamp | N27540 |
| Reduction adapter (only for K150/K180) | 82814 |

INTAKE FILTER INSERTS

- > **Function:** Cleaning the intake air
- > **Dimensions:** Diameter: 67 mm to 124 mm, length: 72 mm to 320 mm
- > **Change frequency:** According to local conditions



N4823



N25950

| Use | Order number |
|---|--------------|
| Small systems (Junior, Oceanus, S30) | N4823 |
| IK100 – IK12.14 up to 6.2004 | N70 |
| IK100 – IK12.14 from 6.2004 onwards | N25950 |
| IK150 – IK22.0 up to 2001 | N3029 |
| K23.0 before 2009 | N18906 |
| IK150 – IK18.1 from 2001 onwards IK150 – IK23 up to 2001 | N25886 |
| Large blocks / medium pressure (K28.3, 21.0, 25.0, 23.1, 25.4, K28.0, K28.2) | N7698 |
| New large blocks from 2008 onwards (K23.0, K24.4) | N29569 |

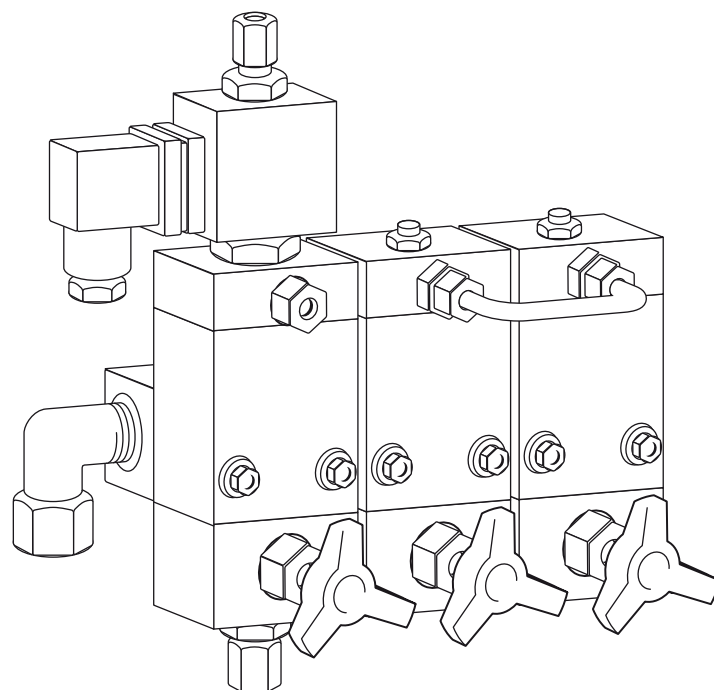
AUTOMATIC CONDENSATE DRAIN

Whether for air, He, Ar, N₂ - regular condensate drainage is required for your compressor too.

COMPRISING

- › Condensate drain valve group with solenoid valve and coil
- › Timer installed in protective housing or compressor controller
- › Pressure reducer for control air supply
- › Cycle counter to measure the condensate drain cycles

If required, contact us specifying your compressor model and operating conditions. We will prepare a corresponding offer for you immediately.



Kondensatablassautomatik

| In crash frame | Filter system P21 | Filter system P31 | Filter system P41 |
|----------------|-------------------|-------------------|-------------------|
| Capitano 140 E | 122400 | 122638 | |
| Mariner 320 E | | 122500 | 122500 |
| Mariner 200 E | 122682 | 122683 | 122683 |
| Mariner 250 E | 122681 | 122675 | 122673 |
| Mariner 320 B* | | 123054 | 123054 |

* Systems with a petrol engine can only be retrofitted if there is an existing electric generator.

CONDENSATE COLLECTION VESSEL

The condensate collection system provides a central means of collecting the condensate produced during the compression process and separates condensate and air.

The condensate collecting tank is equipped with a mechanical level display for visual advance warning when emptying is due, with corresponding control. In addition when the tank is full, a maximum contact can switch off the compressor automatically or trigger an alarm system at the client.

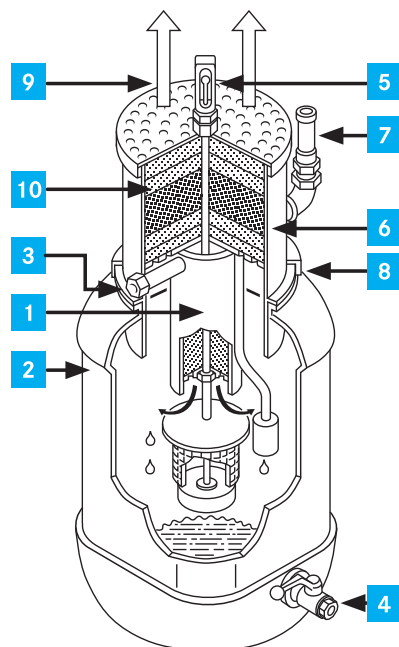
The separated air is channelled through an activated carbon bed so that only clean and odourless exhaust air flows out according to TRG regulations.

The condensate tank is connected to the condensate drain connector of the system by means of a hose.

RETROFIT KIT

For subsequent installation on your KAP or VERTICUS system.

| Version/ compressor series | Tank content | Condensate capacity | Activated carbon content | Pipe fitting on hose | Inlet fitting | Connection hose | Dimensions (W x D x H) | Order number |
|----------------------------------|--------------|------------------------|--------------------------------|-------------------------|---------------|--------------------|---------------------------|-----------------|
| | Litre | Litre | Gram | Ø mm | | Ø mm | mm | |
| Verticus KAP up to K180 | approx. 60 | approx. 40 | 3700 g | 15 | G ½ | 1150 | 410 x 330 x 1000 | 072787 |
| K22 to K28 | approx. 60 | approx. 40 | 3700 g | 28 | G1 | 1500 | 410 x 330 x 1000 | 072788 |



- 1 Condensate separator
- 2 Plastic collection vessel, 60 l
- 3 Condensate inlet G¾ or G1
- 4 Condensate drain valve G½
- 5 Mechanical level indicator
- 6 Filter housing
- 7 Safety valve
- 8 Clamping ring
- 9 Cleaned and odourless exhaust air
- 10 Activated carbon fill

OVERVIEW OF COMBINATION POSSIBILITIES

STORAGE BOTTLE BATTERY 330 BAR

| Storage system | Pressure | Order number |
|--|----------|--------------|
| B 80S with console | 330 bar | B 80 |
| B 80B without console | 330 bar | B 80 |
| Accessories | | |
| Connecting line for B 80 S with console | | 076387 |
| Connecting line for B 80 S without console | | 076363 |
| Safety valve | | 059410 |
| Wall attachment | | 076355 |
| B 160 S standard module | | B 160 |
| B 160 A add-on module | | B 160 |

STORAGE BOTTLE BATTERY 360 BAR (SYSTEM OPERATION UP TO 350 BAR)

| Storage system | Volume | Weight | Order number |
|----------------|--------|---------------|--------------|
| | Litre | kg / approx.: | |
| B 50 S | 50 | 120 | B 50 |
| B 50 A | 50 | 120 | B 50 |
| B 100 S | 100 | 225 | B 100 |
| B 100 A | 100 | 225 | B 100 |

STORAGE BOTTLE BATTERY 420 BAR (SYSTEM OPERATION UP TO 410 BAR)

| Storage system | Pressure | Order number |
|-------------------------|----------|--------------|
| B 50 S standard module | 420 bar | B 50 |
| B 50 A add-on module | 420 bar | B 50 |
| B 100 S standard module | 420 bar | B 100 |
| B 100 A add-on module | 420 bar | B 100 |

RACK OF PRESSURE VESSELS CNG 330 BAR

| Storage system | Number of cylinders | geometr. Total volume | Pmax. | Design | | |
|----------------|---------------------|-----------------------|-------|--------|--------|--------|
| | | | | bar | 1-rack | 2-rack |
| B800 | 10 | 800 | 330 | X | X | X |
| B960 | 12 | 960 | 330 | X | X | X |
| B1920 | 24 | 1920 | 330 | X | X | X |
| B2000 | 25 | 2000 | 330 | X | X | X |
| B2400 | 30 | 2400 | 330 | X | X | X |

B 80 S, with console

Upright pressure vessel mounted on console; connection at bottom, with condensate drain valve and air outlet valve; for mounting several storage bottles, connecting line 076387 is required for each additional storage bottle.

Option: installed safety valve (max. 330 bar setting value), at bottom of console.

B 80 B, without console

Storage bottle, with cylinder valve; without condensate drain valve.

Option: clamp for wall mounting.

Connecting cable 076363 is required for each additional storage bottle when adding multiple storage bottles.

B 160 S – standard module

Upright storage bottle, mounted on console; connection at bottom, with condensate drain valve, air outlet valve and safety valve.

B 160 A – add-on module

To expand the standard modules above in any size for increased volume.

Scope of delivery according to standard module, but without safety valve; a connecting line is required for this.

B 50 S / B 100 S – standard module

Upright storage bottle(s), mounted on console; connection at top, with pressure gauge, shut-off valve, bleed valve and safety valve.

-B 50 A / B 100 A – add-on module

To expand the standard modules above in any size for increased volume.

Scope of delivery as per standard module but without pressure gauge and safety valve.

PRESSURE VESSEL, SINGLE MODULE

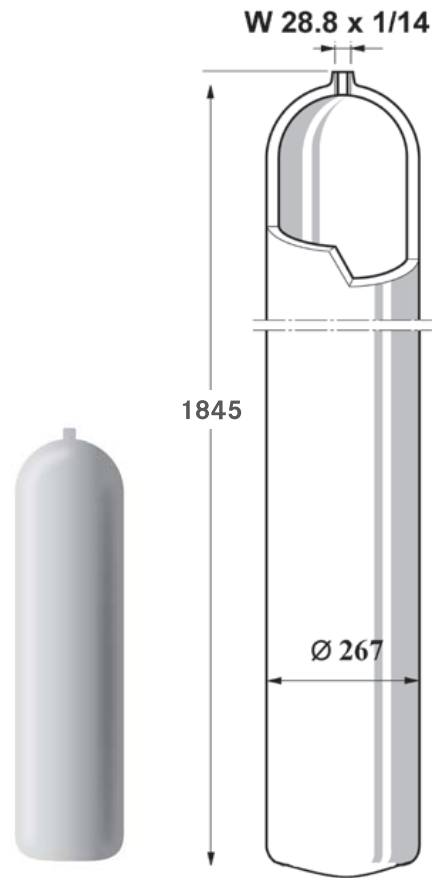
TECHNICAL DATA

- › **Volume:** 80 litre
- › **Medium:** Compressed air, dry; nitrogen and noble gases
- › **Operating temperature:** -20 °C to +50 °C
- › **Surface:** inside untreated, outside primed
- › **Number of load cycles according to AD-S1:** at 70 up to 250 bar = 74,300 cycles*
- › **Material:** 34 Cr Mo 4 pipe external diameter 8 mm

SCOPE OF DELIVERY

- › Cylinder without connectors and accessories

Attention! The tanks are delivered filled with nitrogen!



| Rated pressure | Volume | Weight | Storage capacity | Test pressure | Connection | Order number |
|----------------|--------|-------------|------------------|---------------|-----------------|--------------|
| bar | Litre | kg | Litre/bar | bar | acc. to DIN 477 | |
| 330 | 80 | approx. 129 | 24,000/300 | 472 | W28.8x1/14 | N33284 |

* Calculation according to AD codes of practice with TÜV acceptance according to Pressure Equipment Directive.

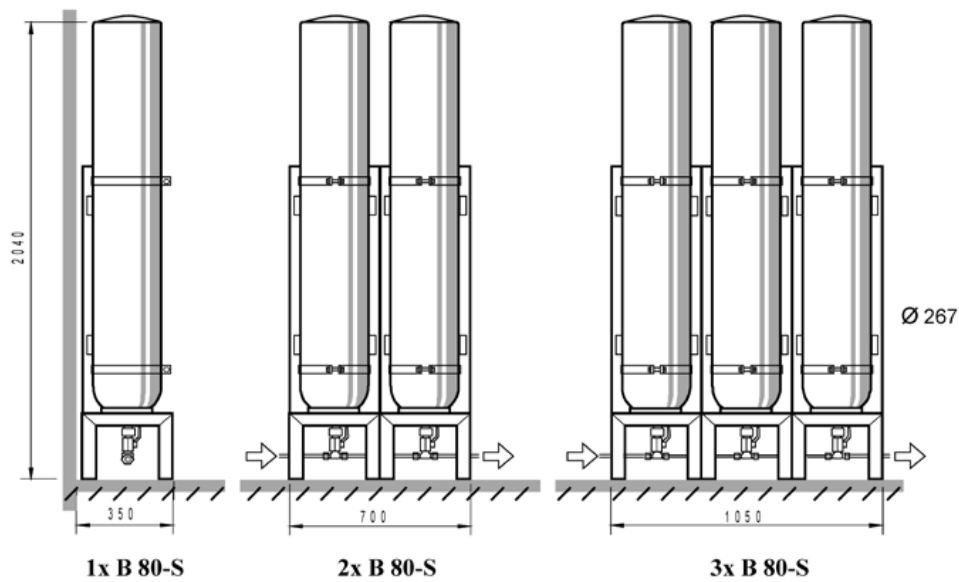
STORAGE BOTTLE BATTERY, B80-S

The modules are intended for operation without safety valve and without pressure gauge. The storage bottle battery is supplied with a console and condensate drain, and must be protected via the system.

THE PRESSURE VESSELS MEET THE REQUIREMENTS OF GERMAN REGULATIONS GOVERNING STATIONARY INSTALLATION.

TECHNICAL DATA

- › **Volume:** 80-litre upright with console and connection at bottom, condensate drain and outlet valve
- › **Pressure:** 330 bar
- › **Pipe connector:** for lines with \varnothing 8 mm



| Storage volume | Rated pressure | Weight | Storage capacity | Order number |
|-----------------|----------------|-------------|------------------|--------------|
| Litre | bar | kg | Litre/bar | |
| 80 | 330 | approx. 145 | 24,000/300 | 076053 |
| Optional | | | | |
| Connecting line | | | | 076387 |

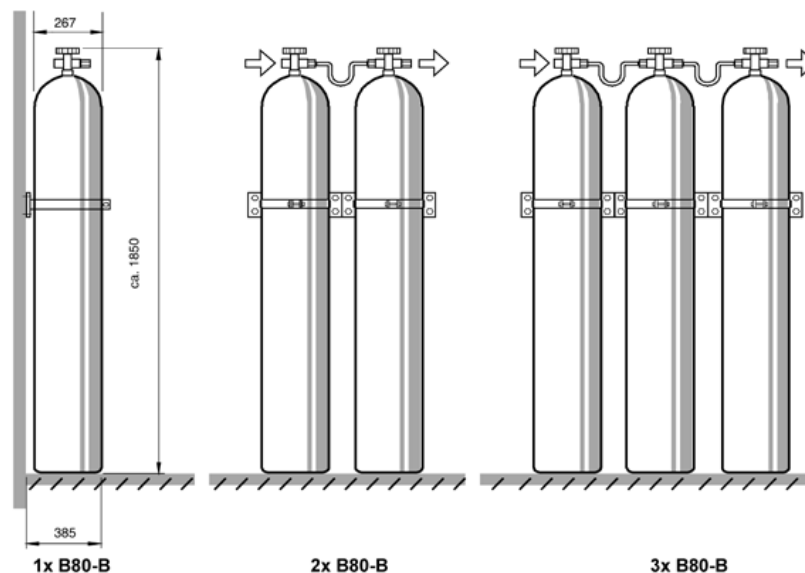
STORAGE BOTTLE BATTERY, B80-B

The modules are intended for operation without safety valve, without pressure gauge, without console and without condensate drain.

THE PRESSURE VESSELS MEET THE REQUIREMENTS OF GERMAN REGULATIONS GOVERNING STATIONARY INSTALLATION.

TECHNICAL DATA

- › **Volume:** 80-litre upright modules with connection at top, without console and without condensate drain
- › **Pressure:** 330 bar
- › **Pipe connector:** for lines with \varnothing 8 mm
- › **Connection dimension in:** R 3/8
- › **Connection dimension out:** M 16 x 1.5



| Storage volume | Rated pressure | Weight | Storage capacity | Order number |
|-----------------|----------------|-------------|------------------|--------------|
| Litre | bar | kg | Litre/bar | |
| 80 | 330 | approx. 125 | 26,400/330 | 076356 |
| Optional | | | | |
| Wall attachment | | | | 076355 |
| Connecting line | | | | 076363 |

FILLING VALVES

Our filling valves ensure the greatest possible operational safety, ease of use and long service life.

The lever filling valves as well as rotary wheel valves are safety filling valves. They prevent uncontrolled whipping around of the filling hose if the cylinder is not connected and the filling valve is opened inadvertently. This significantly reduces the risk of accident!

There is no possibility of mixing up the 200 and 300 bar connectors, because: 200 bar connectors are marked in black and do not have a pin on the pressure outlet! 300 bar connectors are marked in red and have a pin on the pressure outlet!

HAND WHEEL VERSION

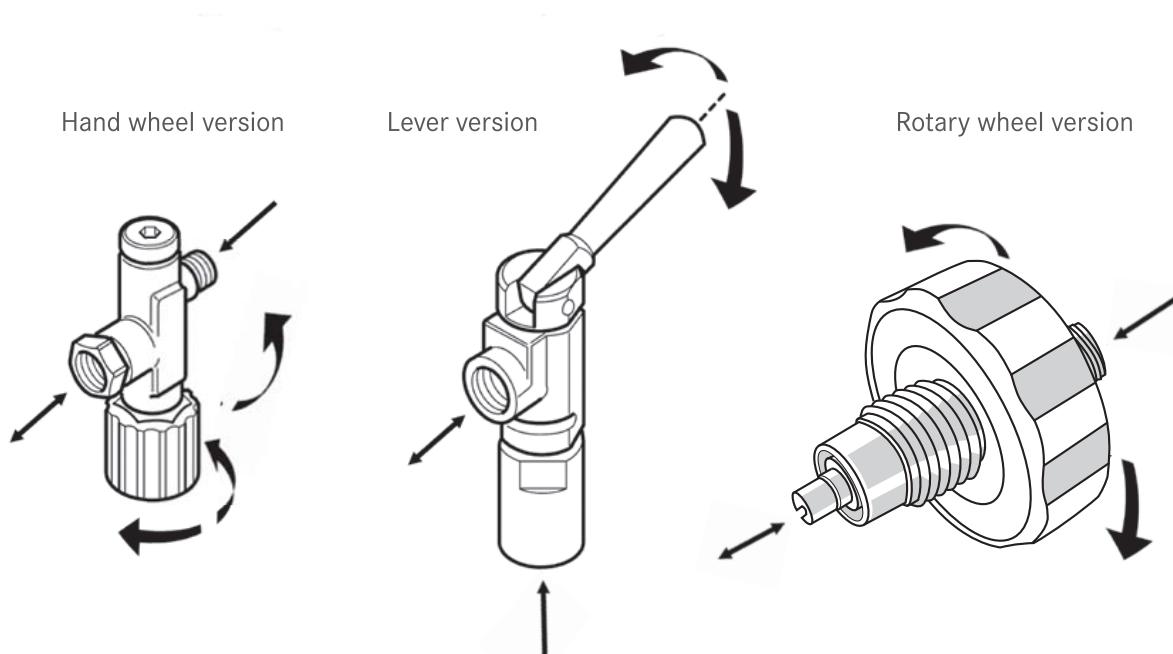
Opening and venting with one handwheel (internal venting). Valve seat is protected against damage caused by overtightening when closing. Particularly well-suited for mobile use. The complete valve is resistant to corrosion.

LEVER VERSION

Safety filling connection. Unparalleled quality, reliability and operating comfort. Recommended for stationary use, above all on filling panels. Unambiguous lever position OPEN and CLOSED. Integrated silencer. Quieter venting of the valve when removing the compressed air cylinder. The complete valve is resistant to corrosion.

ROTARY WHEEL VERSION

Safety filling connection. Filling valve with integrated check valve. This prevents the residual gas from flowing back into another connected compressed air cylinder. This is advantageous, particularly in precisely calculated NITROX mixtures. When the valve is removed after filling, it is vented automatically by opening the rotary wheel (internal venting). This ensures reliable decoupling from the connected compressed air cylinder. The ergonomic advantages were the main aspect in developing this variant.



FILLING VALVES

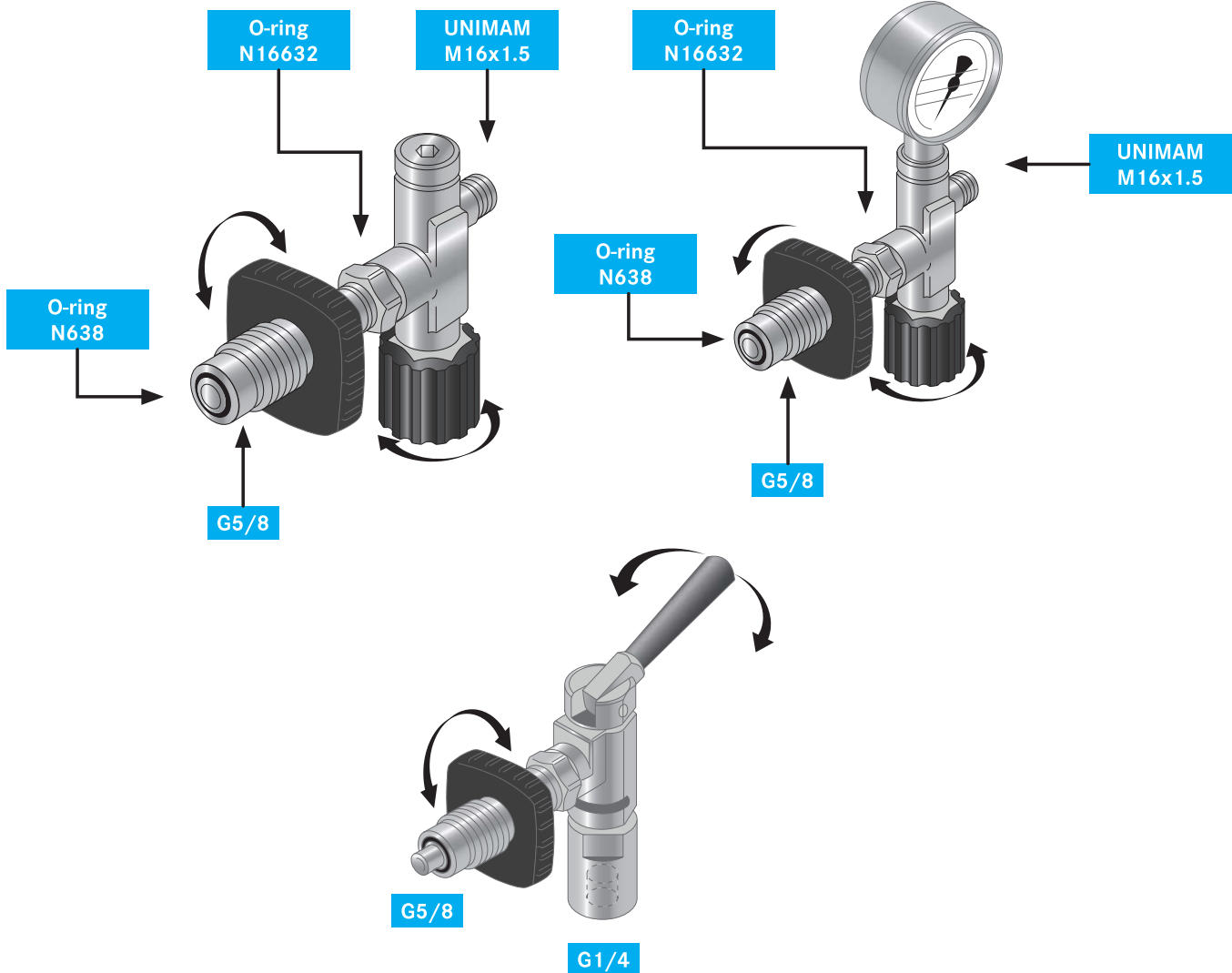
THE ADVANTAGES OF THE NEW LEVER FILLING VALVES

The pressure release reduces the noise by more than half (16 dBA). The frequency of the blow-off sound is low, more pleasant and tolerable for the human ear. In addition, the low residual noise and the surplus air are channelled to the outside via a G1/8 connection. Completely reverse-compatible, it can be exchanged for older versions without difficulty. Many spare parts can be obtained separately, as can the appropriate maintenance kits. Absolutely rust-free. Suitable for continuous use.



without pressure gauge

with pressure gauge



FILLING CONNECTORS

The standardised filling connections (EN 144-2) are available in the variants PN200 bar and PN300 bar for breathing air and as Nitrox version.

FILLING CONNECTION IN RED

➤ for 300 bar (330 bar) breathing air



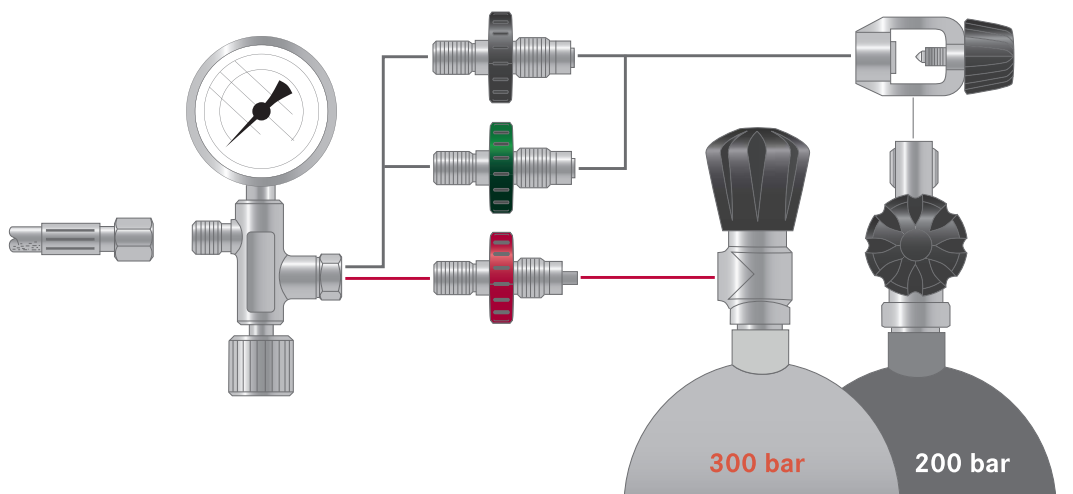
FILLING CONNECTION IN BLACK

➤ for 200 bar (225 bar) breathing air



FILLING CONNECTION IN GREEN

➤ for 200 bar (225 bar) Nitrox

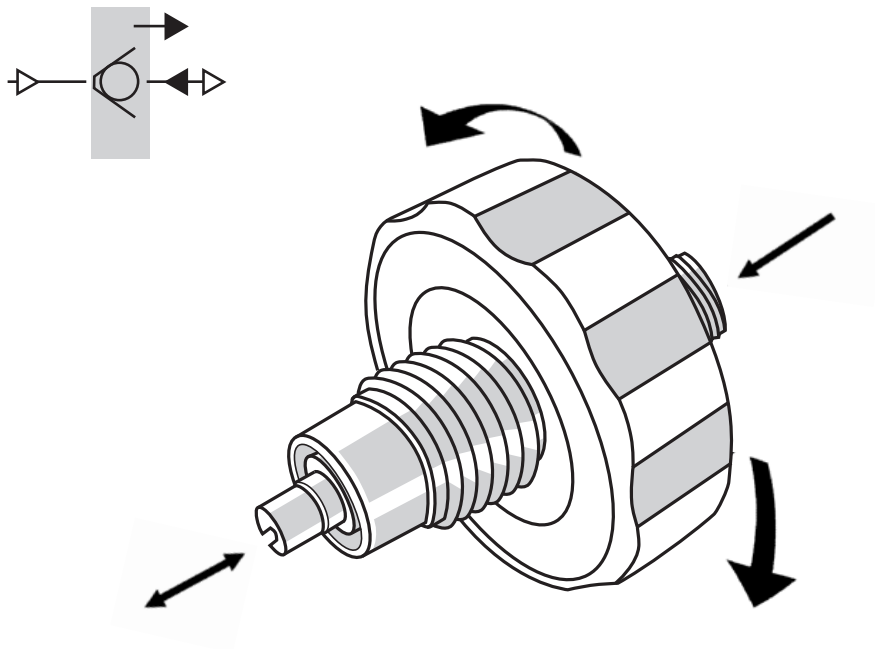


CYLINDER CONNECTOR WITH SPIN VALVE

› A filling valve with integrated check valve prevents the residual gas in the compressed air cylinder from flowing back into other connected cylinders. This is advantageous especially with precisely calculated Nitrox mixtures.

FILLING CONNECTION WITH SIMPLE VENT FUNCTION

› When the valve is removed after filling, the valve is automatically vented by turning the valve, and safe removal of the filling valve from the cylinder is possible.

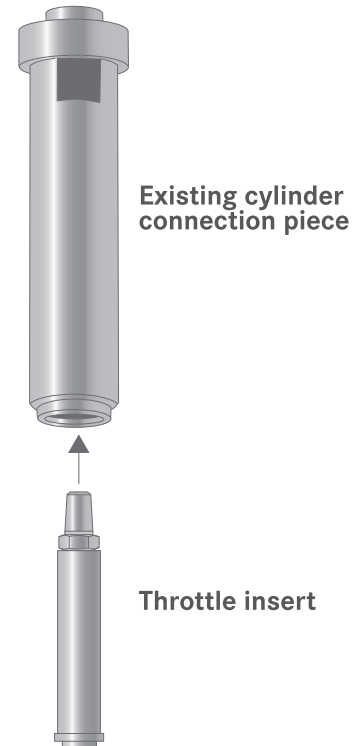


FILLING VALVE THROTTLE INSERT

To meet the requirements of manufacturers of composite cylinders (CFP), installing the throttle insert limits the filling speed when filling breathing air cylinders to approx. 30 bar/min. This reduces the heating of the cylinders being filled.

TECHNICAL DATA PN 200

- **Permitted operating pressure:** PS 350 bar
- **Testing over-pressure** PT 500 bar
- **Permitted operating temperature:** TS 5-50 °C
- **Medium:** Air
- **Filling speed 200 bar:** V 30-35 l/min at 200 bar (into a 7 l cylinder)
- **Filling speed 300 bar:** V 30-35 l/min at 300 bar (into a 7 l cylinder)

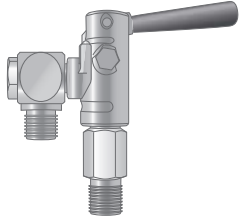
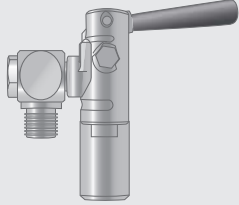
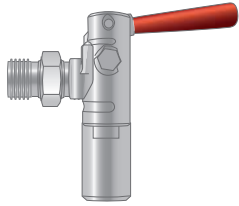


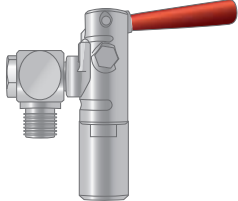
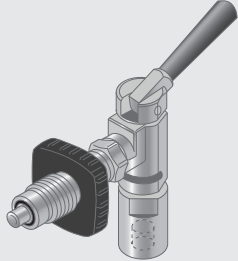
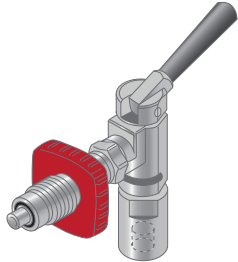
SAFETY CYLINDER CONNECTORS

The BAUER safety cylinder connectors reliably prevent uncontrolled whipping of the hoses if the valve is opened inadvertently. The risk of accident is effectively reduced.

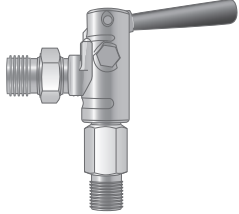
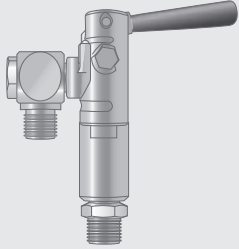
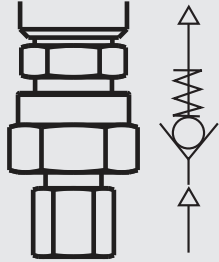
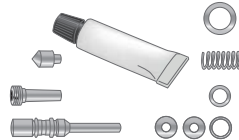


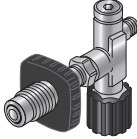
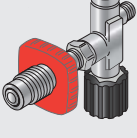
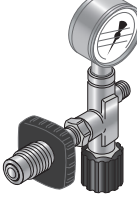
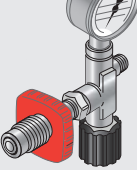
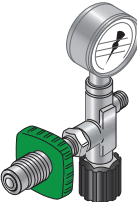
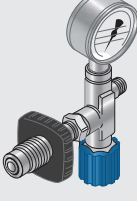
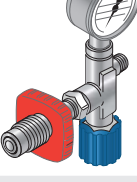
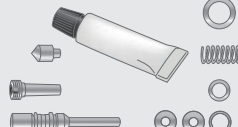
FLLING VALVES

| Product reference | Toggle filling valve (stationary) Connector piece thread in valve M 16x1.5 | Appropriate accessories or spare part | Order number | Fig. on page 45 | | |
|--|---|---|---|---|-----------|----|
| 86327-F03  | 200/300bar for filling hose, with silencer, moveable angle piece, input 3/8" external thread, Black lever | Angle piece | 072539 | 6 | | |
| | | Angle piece with nozzle | 72539-S01 | 6 | | |
| | | O-ring between angle piece/valve | N3355 | 26 | | |
| | | O-ring in angle piece 2x | N18334 | 25 | | |
| | | Sinter silencer | N29042 | 29 | | |
| | | Black lever | 11322 | | | |
| | | Double nipple, 3/8" external thread | 11321 | 17 | | |
| | | Clamping bracket | 6942 | 21 | | |
| | | Washer | N2862 | 22 | | |
| | | Spring washer | N108 | 23 | | |
| | | Nut | N57 | 24 | | |
| | | Sinter filter for 11347 | 63832 | | | |
| | | O-ring | N3331 | | | |
| | | 86102-F03  | 200/300bar for filling hose, with moveable angle piece, input 1/4" internal thread, Black lever | Angle piece | 072539 | 6 |
| | | | | Angle piece with nozzle | 72539-S01 | 6 |
| O-ring between angle piece/valve | N3355 | | | 26 | | |
| O-ring in angle piece 2x | N18334 | | | 25 | | |
| Sinter silencer | N29042 | | | 29 | | |
| Black lever | 11322 | | | | | |
| Screw piece 1/4" internal thread (IG) | 11347 | | | 15 | | |
| Clamping bracket | 6942 | | | 21 | | |
| Washer | N2862 | | | 22 | | |
| Spring washer | N108 | | | 23 | | |
| Nut | N57 | | | 24 | | |
| Sinter filter for 11347 | 63832 | | | | | |
| O-ring | N3331 | | | | | |
| 122361-F03  | 200/300bar for filling hose, with connector, input 1/4" internal thread, Red lever | | | Straight connector with filter | 076421 | 13 |
| | | | | Straight connector with filter + nozzle | 85971 | 13 |
| | | Sinter filter in connector | 76386 | | | |
| | | O-ring to valve | N3355 | | | |
| | | Sinter silencer | N29042 | 29 | | |
| | | Red lever | 11322-S01 | | | |
| | | Screw-in part 1/4" internal thread | 11347 | 15 | | |
| | | Clamping bracket | 6942 | 21 | | |
| | | Washer | N2862 | 22 | | |
| | | Spring washer | N108 | 23 | | |
| | | Nut | N57 | 24 | | |
| | | Sinter filter for 11347 | 63832 | | | |
| | | O-ring | N3331 | | | |

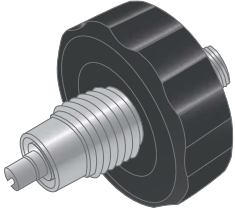
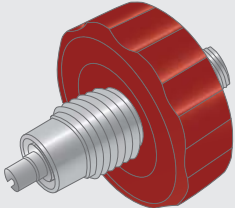
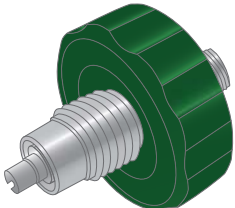
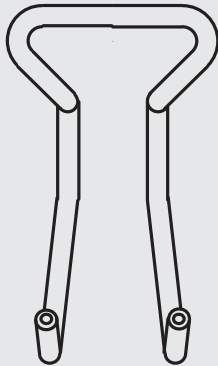
| Product reference | Toggle filling valve (stationary) Connector piece thread in valve M16x1.5 | Appropriate accessories or spare part | Order number | Fig. on page 45 |
|---|---|--|---|-----------------|
| 072832-S01  | 200/300bar for filling hose, with moveable angle piece, input 1/4" internal thread, Red lever | Angle piece | 072539 | 6 |
| | | Angle piece with nozzle | 72539-S01 | 6 |
| | | O-ring between angle piece/valve | N3355 | 26 |
| | | O-ring in angle piece 2x | N18334 | 25 |
| | | Sinter silencer | N29042 | 29 |
| | | Red lever | 11322-S01 | |
| | | Screw-in part 1/4" internal thread | 11347 | 15 |
| | | Clamping bracket | 6942 | 21 |
| | | Washer | N2862 | 22 |
| | | Spring washer | N108 | 23 |
| | | Nut | N57 | 24 |
| | | Sinter filter for 11347 | 63832 | |
| | | O-ring | N3331 | |
| | | | | |
| | | 85877-F03  | 200Bar with silencer, input 1/4" internal thread, Non-return function, Black handwheel 5/8" Black lever | Cap, 5/8" |
| Retainer chain for cap | 063691 | | | |
| Connection fitting | 077445 | | | 1 |
| Handwheel black | 10859 | | | |
| O-ring to bottle | N638 | | | |
| O-ring to valve | N3355 | | | |
| Sinter silencer | N29042 | | | 29 |
| Screw-in part 1/4" internal thread | 11347 | | | 15 |
| Clamping bracket | 6942 | | | 21 |
| Washer | N2862 | | | 22 |
| Spring washer | N108 | | | 23 |
| Nut | N57 | | | |
| Sinter filter for 11347 | 63832 | | | |
| O-ring | N3331 | | | |
| Counternut M16x1.5 | 64279 | | | |
| | | | | |
| 85878-F03  | 300bar with silencer, input 1/4" internal thread, Non-return function, Red handwheel 5/8" Black lever | Cap, 5/8" | 63592 | |
| | | Retainer chain for cap | 063691 | |
| | | Connection fitting | 077441 | 2 |
| | | Handwheel, red | 11355 | |
| | | O-ring to bottle | N638 | |
| | | O-ring to valve | N3355 | |
| | | Sinter silencer | N29042 | 29 |
| | | Screw-in part 1/4" internal thread | 11347 | 15 |
| | | Clamping bracket | 6942 | 21 |
| | | Washer | N2862 | 22 |
| | | Spring washer | N108 | 32 |
| | | Nut | N57 | 24 |
| | | Sinter filter for 11347 | 63832 | |
| | | O-ring | N3331 | |
| | | Counternut M16x1.5 | 64279 | |
| | | | | |


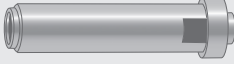

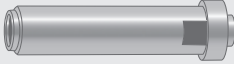
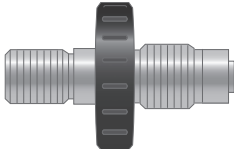
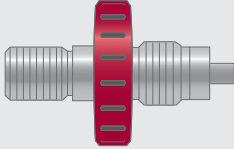
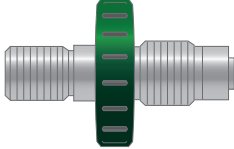
FILLING VALVES

| Product reference | Toggle filling valve (stationary) Connector piece thread in valve M16x1.5 | Appropriate accessories or spare part | Order number | Fig. on page 45 |
|---|--|---|---|-------------------------|
| <p>86615-F03</p>  | <p>200/300bar for filling hose, with straight connector, conic intake R3/8" external thread, Black lever Use specifically for: Verticus and Mini Verticus</p> | <p>Straight connector with filter Straight connector with filter + nozzle O-ring to valve Sinter silencer Black lever Screw-in unit R3/8" external thread Teflon sealing strip</p> | <p>076421 85971 N3355 N29042 11322 86616 N19943</p> | <p>13 13 29</p> |
| <p>85622-F03</p>  | <p>200/300bar for filling hose, with moveable angle piece, input with check valve for 6mm pipe inlet M14x1.5 (6S), Check valve is screwed in underneath on inlet piece 11347</p>  | <p>Identical accessories as e.g. for 86102-F03 Otherwise, e.g. also: Check valve Adjustable T-piece M14x1.5 Union nut 6S = M14x1.5 Cutting ring 6S CFA pipe 6x1 Useful information: CFA Cold-finished, bright annealed Cold-finished, bright annealed</p> | <p>N29420 N20019 N3610 N3663 N3616 N3616</p> | <p>13 13 29</p> |
| <p>85622-F03</p>  | | <p>Repair or maintenance kit: until 2006 2007 or later From 2007 for NITROX</p> | <p>N6676 N29617 N30890</p> | <p>20</p> |

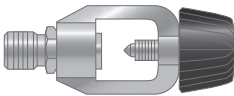

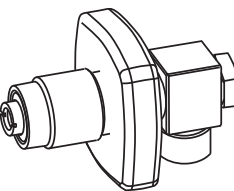
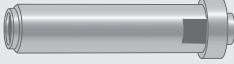
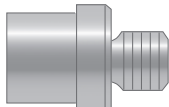
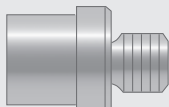
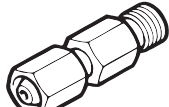
| Product reference | Filling valve (mobile) with UNIMAM input Connector piece thread in valve 1/4" | Appropriate accessories or spare part | Order number | Fig. on page 45 |
|--|---|---|--|-----------------|
| <p>071744</p>  | <p>200bar without pressure gauge, black handwheel 5/8"</p> | <p>Connector piece with black handwheel O-ring to bottle O-ring to valve Counternut 1/4"</p> | <p>064698 N638 N16632 64289</p> | <p>19</p> |
| <p>071743</p>  | <p>300bar without pressure gauge, Red handwheel 5/8"</p> | <p>Connector piece with red handwheel O-ring to bottle O-ring to valve Counternut 1/4"</p> | <p>064699 N638 N16632 64289</p> | <p>18</p> |
| <p>071343</p>  | <p>200bar with pressure gauge, black handwheel 5/8"</p> | <p>Connector piece with black handwheel O-ring to bottle O-ring to valve Pressure gauge Rubber protection Counternut 1/4" Replacement glass</p> | <p>064698 N638 N16632 N1315 N15985 64289 N19954</p> | <p>19</p> |
| <p>071344</p>  | <p>300bar with pressure gauge, Red handwheel 5/8"</p> | <p>Connector piece with red handwheel O-ring to bottle O-ring to valve Pressure gauge Rubber protection Counternut 1/4" Replacement glass</p> | <p>064699 N638 N16632 N4101 N15985 64289 N19954</p> | <p>18</p> |
| <p>83935</p>  | <p>200bar with pressure gauge, Green handwheel M26x2 NITROX</p> | <p>Connector piece with green handwheel O-ring to bottle O-ring to valve Pressure gauge Rubber protection Counternut 1/4" Replacement glass</p> | <p>83870 N16057 N16632 N1315 N15985 64289 N19954</p> | |
| <p>79193</p>  | <p>200bar with pressure gauge, Without venting, blue control valve, black handwheel 5/8" Shooting sports</p> | <p>Connector piece with black handwheel O-ring to bottle O-ring to valve Pressure gauge Rubber protection Counternut 1/4" Replacement glass</p> | <p>064698 N638 N16632 N1315 N15985 64289 N19954</p> | <p>19</p> |
| <p>79197</p>  | <p>300bar with pressure gauge, Without venting, blue control valve, Red handwheel 5/8" Shooting sports</p> | <p>Connector piece with red handwheel O-ring to bottle O-ring to valve Pressure gauge Rubber protection Counternut 1/4" Replacement glass</p> | <p>064699 N638 N16632 N4101 N15985 64289 N19954</p> | <p>18</p> |
|  | | <p>Repair or maintenance kit: until approx. 1993 from approx. 1993 only shooting sports</p> | <p>N5051 072349 164816</p> | <p>20</p> |

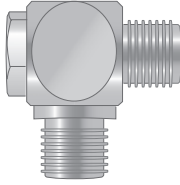
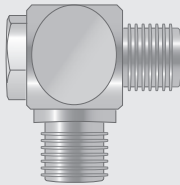
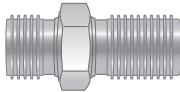
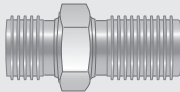
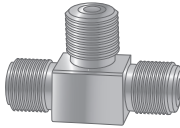

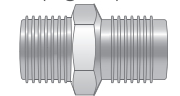


FILLING VALVES

| Product reference | Filling valve (mobile) with UNIMAM input | Appropriate accessories or spare part | Order number |
|--|--|--|---|
| <p>125085 (Fig. 28)</p>  | <p>200bar quick-venting, black handwheel 5/8"</p> | <p>Locking ring O-ring to bottle O-ring in valve 2x</p> | <p>N38010 N638 N25452</p> |
| <p>125083 (Fig. 28)</p>  | <p>300bar quick-venting, Red handwheel 5/8"</p> | <p>Locking ring O-ring to bottle O-ring in valve 2x</p> | <p>N38010 N638 N25452</p> |
| <p>125087 (Fig. 28)</p>  | <p>200bar quick-venting, Green handwheel M26x2 NITROX</p> | <p>Locking ring O-ring to bottle O-ring in valve 2x</p> | <p>N38010 N16057 N25452</p> |
| <p>73945</p>  <p>NIRO</p> | <p>Hanging bracket for filling connection. Attached by means of 2 screws to filling panels present, or to other adequate locations. Only suitable for filling connectors with handwheels!</p> | <p>Hexagonal bolt M8x20 Hexagonal bolt M8x25 Nut U-washer, small U-washer, large U-washer, thick Spring washer</p> | <p>N19505 N19506 N57 N58 N2460 N2862 N108</p> |

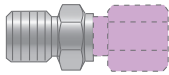







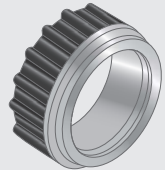
| Product reference | Diverse filling connectors | Appropriate accessories or spare part | Order number |
|-------------------|--|--|---------------------------------|
| 129092 (Fig. 27) |  <p>200bar cylinder connection piece for all lever filling valves, with including throttle insert for CFK cylinders, Non-return function, without handwheel Connector piece thread M16x1.5</p> | Black handwheel O-ring to bottle O-ring to valve Counternut M16x1.5 | 10859 N638 N3355 64279 |
| 128452 (Fig. 27) |  <p>300bar cylinder connection piece for all lever filling valves, with including throttle insert for CFK cylinders, Non-return function, without handwheel Connector piece thread M16x1.5</p> | Red handwheel O-ring to bottle O-ring to valve Counternut M16x1.5 | 11355 N638 N3355 64279 |
| 077445 |  <p>200bar cylinder connection piece for all lever filling valves, with non-return function, without handwheel Connector piece thread M16x1.5</p> | Black handwheel O-ring to bottle O-ring to valve Counternut M16x1 | 10859 N638 N3355 64279 |
| 064689 | <p>064689 As above but without non-return function</p> | | |
| 077441 |  <p>300bar cylinder connection piece for all lever filling valves, with non-return function, without handwheel Connector piece thread M16x1.5</p> | Red handwheel O-ring to bottle O-ring to valve Counternut M16x1.5 | 11355 N638 N3355 64279 |
| 064699 | <p>064699: As above but without non-return function</p> | | |
| 07756 (Fig. 8) |  <p>200bar cylinder connector 5/8" with M16x1.5 UNIMAM hose intake, with non-return function, black handwheel</p> | Black handwheel O-ring to bottle O-ring on UNIMAM hose | 10859 N638 N16632 |
| 010912 (Fig. 9) |  <p>300bar cylinder connector 5/8" with M16x1.5 UNIMAM hose intake, with non-return function, Red handwheel</p> | Red handwheel O-ring to bottle O-ring on UNIMAM hose | 11355 N638 N16632 |
| 83974 (Fig. 10) |  <p>200bar cylinder connector M26x2 with M16x1.5 UNIMAM hose intake, with non-return function, Green handwheel NITROX</p> | Green handwheel O-ring to bottle O-ring for UNIMAM | 83867 N16057 N16632 |

FILLING VALVES

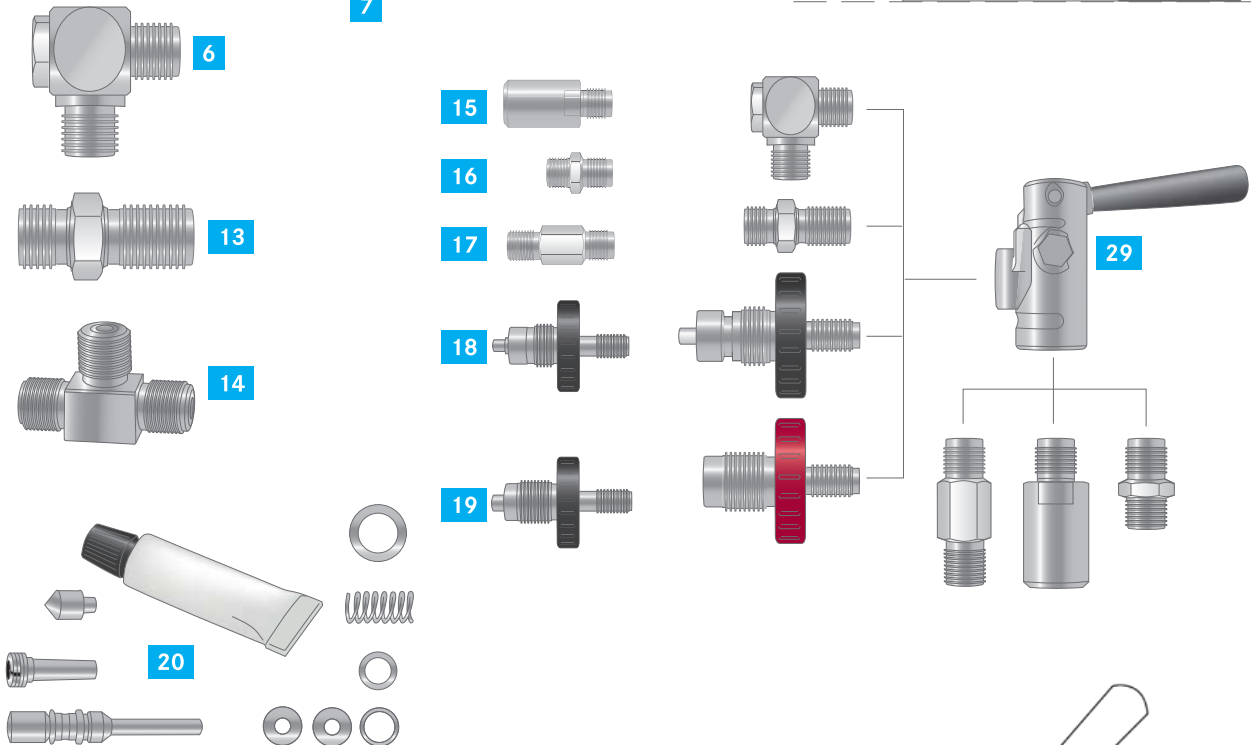
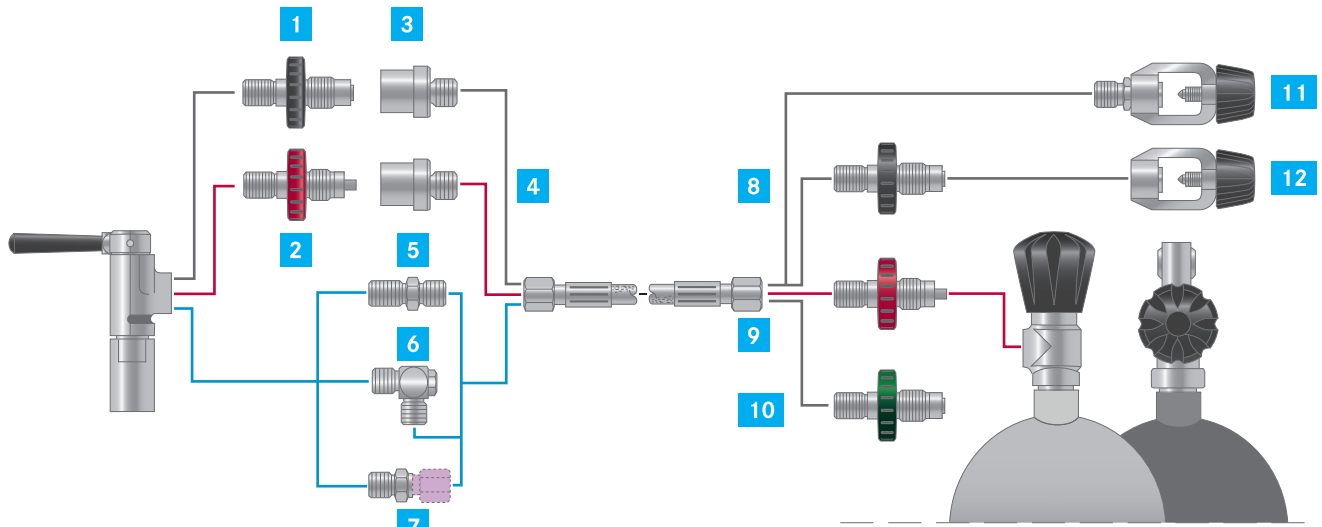
| Product reference | Diverse filling connectors | Appropriate accessories or replacement part | Order number |
|--|--|--|---|
| 03147 (Fig. 11)  | 200bar international flange connection, 16x1.5 UNIMAM hose | O-ring in connector UNIMAM filling hoses in diverse lengths. From 0.5 to 80 metres. In different metre-based lengths | N638 e.g. 1m N2817 2m N2818 |
| 79375 (Fig. 12)  | 200bar international flange connection, 5/8" internal thread input | O-ring in connector UNIMAM filling hoses in diverse lengths. From 0.5 to 80 metres. In different metre-based lengths | N638 e.g. 1m N2817 2m N2818 |
| 83799  | 300bar cylinder connection piece, UNIMAM hose input angled 90°, only for Interspiro breathing air cylinders! Red handwheel | O-ring to bottle O-ring in connector O-ring in connector 2x Red handwheel UNIMAM filling hoses in diverse lengths. From 0.5 to 80 metres. In different metre-based lengths | N638 N2814 N1338 11355 e.g. 1m N2817 2m N2818 |
| 83225  | 300bar cylinder connector piece, UNIMAM hose input, Non-return function, only for Interspiro breathing air cylinders without handwheel Connector piece thread M16x1.5 | O-ring Red handwheel Counternut M16x1.5 UNIMAM filling hoses in diverse lengths. From 0.5 to 80 metres. In different metre-based lengths | N638 11355 64279 e.g. 1m N2817 2m N2818 |
| 5951 (Fig. 3)  | 200bar adapter UNIMAM hose on 5/8" internal thread | UNIMAM filling hoses in diverse lengths. From 0.5 to 80 metres. In different metre-based lengths | e.g. 1m N2817 2m N2818 |
| 11255 (Fig. 4)  | 300bar adapter UNIMAM hose on 5/8" internal thread | UNIMAM filling hoses in diverse lengths. From 0.5 to 80 metres. In different metre-based lengths | e.g. 1m N2817 2m N2818 |
| 068870  | 300bar adapter UNIMAM hose on M16x1.5 old 60° filling connector | UNIMAM filling hoses in diverse lengths. From 0.5 to 80 metres. In different metre-based lengths | e.g. 1m N2817 2m N2818 |

| Product reference | Diverse filling connectors | Appropriate accessories or spare part | Order number |
|--|---|--|--------------------------|
| 072539 (Fig. 6)  | 200/300bar, moveable angle connector, for lever filling valve UNIMAM outlet | O-ring to valve O-ring in connector 2x | N3355 N18334 |
| 72539-S01 (Fig. 6)  | 200/300bar, moveable angle connector, for lever filling valves, UNIMAM outlet, with throttle nozzle for CFK bottles | O-ring to valve O-ring in connector 2x Sinter filter | N3355 N18334 76386 |
| 076421 (Fig. 13)  | 200/300bar, straight connector, for lever filling valves, UNIMAM outlet | O-ring to valve Counternut M16x1.5 | N3355 64279 |
| 85971 (Fig. 13)  | 200/300bar, straight connector, for lever filling valves, UNIMAM outlet, with throttle nozzle for CFK bottles | O-ring to valve Counternut M16x1.5 | N3355 64279 |
| 171894 (Fig. 14)  | 200/300bar, T-piece, central thread R1/4", external thread 2x M14x1.5, for lever filling valve, with throttle nozzle for CFK bottles, Connection of WEH couplings | Teflon sealing strip | N19943 |
| 11347 (Fig. 15)  | 200/300bar, Input piece for lever filling valve, without sinter filter, Internal thread IG=G1/4", external thread AG=G3/8" | O-ring to valve Sinter filter | N3331 63832 |
| 75311 (Fig. 16)  | 200/300bar, conical input piece for lever filling valve, external thread AG=R3/8", external thread AG=G3/8" to valve | O-ring to valve Teflon sealing strip | N3331 N19943 |
| 11321 (Fig. 17)  | 200/300bar, Input piece for lever filling valve, external thread AG=G3/8", external thread AG=G3/8" | O-ring to valve | N3331 |
| 63596 (Fig. 5)  | 200/300bar, straight connection with conical hose outlet 60° for lever filling valves, no UNIMAM | O-ring to valve | N3355 |

FLLING VALVES

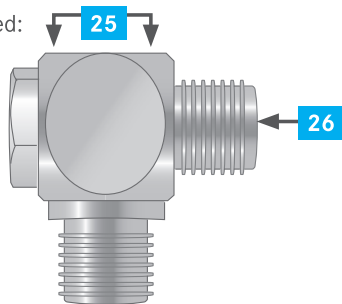
| Product reference | Diverse filling connectors | Appropriate accessory or replacement part | Order number |
|-------------------|--|--|------------------------------|
| Fig. 7 |  <p>Custom-made products 200/300bar, customer-specific screw connections, on request.</p> | Notes: | |
| 86616 |  <p>Connecting nipple, Thread to filling valve G3/8" below, on other side R3/8" NIRO</p> | Teflon sealing strip | N19943 |
| 79330 |  <p>200bar adapter 5/8" to 5/8" internal thread</p> | <p>Useful information! Thread designation G = straight Thread designation R = conical</p> | |
| 66939 | <p>300bar adapter 5/8" to 5/8" internal thread</p> | | |
| 160728 |  <p>200/300bar, hose manifold single, also called a Y-piece, 2x 60° hose connector, 1x M16x1.5 counternut fitting 78801</p> | Y-piece and 58036 (nipple with seal, complete) | 073080-KD |
| 78801 |  <p>200/300bar, Hose nipple, single, G1/4" external thread on 60° Hose connection, non- UNIMAM</p> | ED seal Nipple 78801 and seal N25108, complete Y-piece and 58036 (nipple with seal, complete) | N25108 58036 073080-KD |
| 78803 |  <p>200/300bar, Hose nipple, single, G1/4" external thread on UNI-MAM hose connection</p> | ED seal Nipple 78803 and seal, complete | N25108 65363 N25108 |
| N1315 |  <p>200bar pressure gauge with R1/4" thread below, without glycerine filling, 64mmØ Red marking at 225bar</p> | Teflon sealing strip Replacement glass | N19943 N19954 |
| N4101 |  <p>300bar pressure gauge with R1/4" thread below, without glycerine filling, 64mmØ Red marking at 330bar</p> | Teflon sealing strip Replacement glass | N19943 N19954 |
| N15985 |  <p>Black rubber protector cap for filling valves with 63Ø thread below</p> | | |

Attention! All images are for illustrative purposes only and may differ from the original!

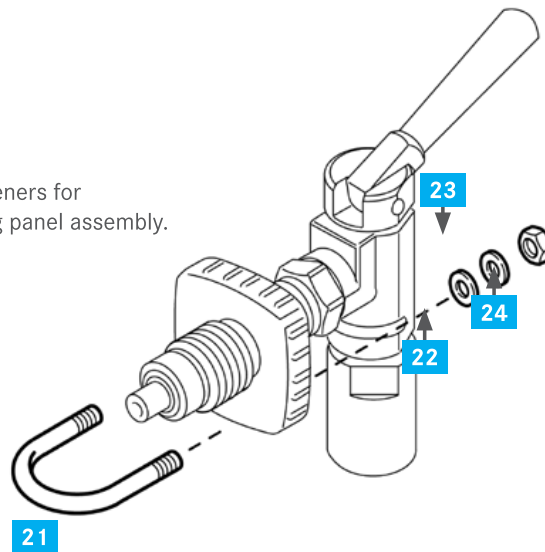


Repair, maintenance, angled connection

O-rings required:
25=N18334
26=N3355

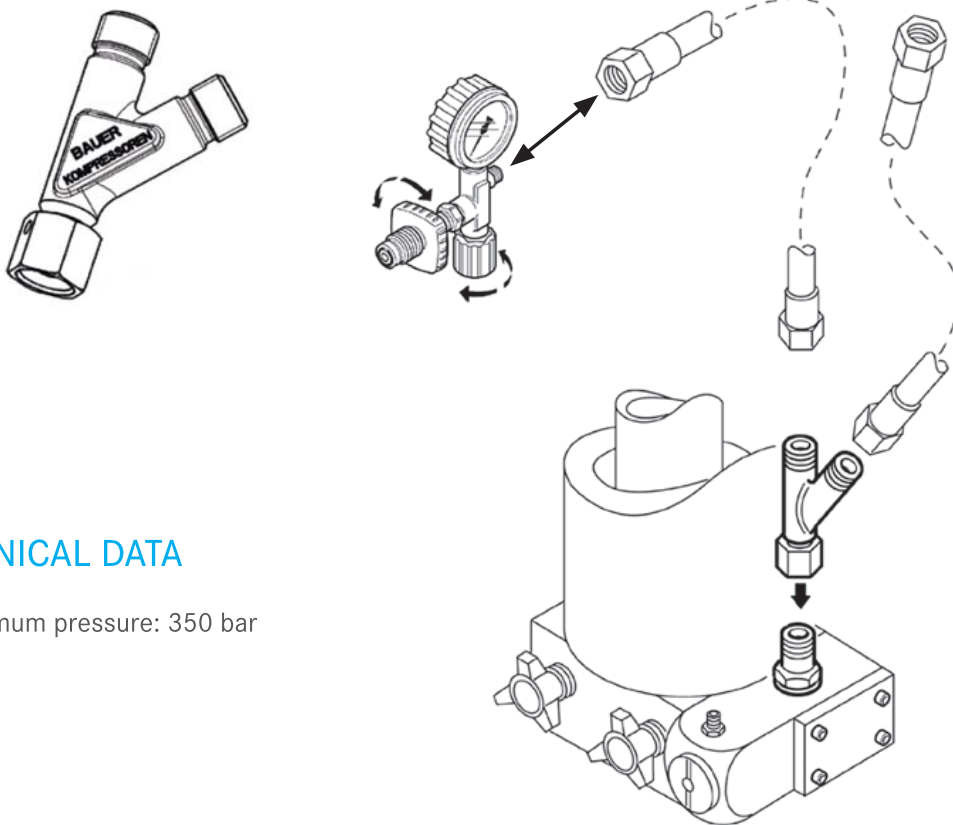


Fasteners for filling panel assembly.



DISTRIBUTION CONNECTORS

Required if the compressor is only equipped with one filling connector and a further filling possibility is required.



TECHNICAL DATA

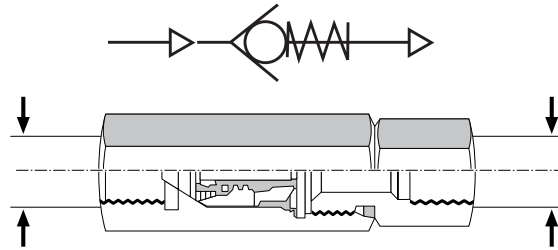
➤ Maximum pressure: 350 bar

NOTES

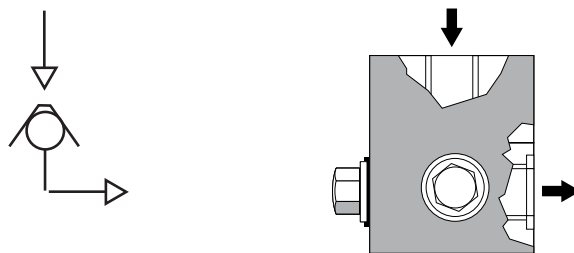


Lined area for notes, consisting of 20 horizontal lines.

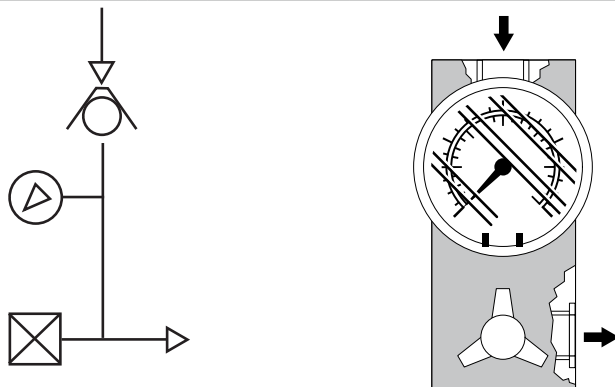
CHECK VALVES



| Designation | Operating pressure | Connections | Nominal width | Air flow rate* | Order number |
|-------------|--------------------|-------------|---------------|----------------------|--------------|
| | bar / max. | | mm | m ³ /min. | |
| Check valve | 450 | 2 x G 1/4 | 6 | 1 | N1463 |



| Designation | Operating pressure | Connections | Nominal width | Air flow rate* | Order number |
|-------------|--------------------|---------------|---------------|----------------------|--------------|
| | bar / max. | | mm | m ³ /min. | |
| Check valve | 350 | 2 x pipe ø 12 | 5 | 3 | 061843 |



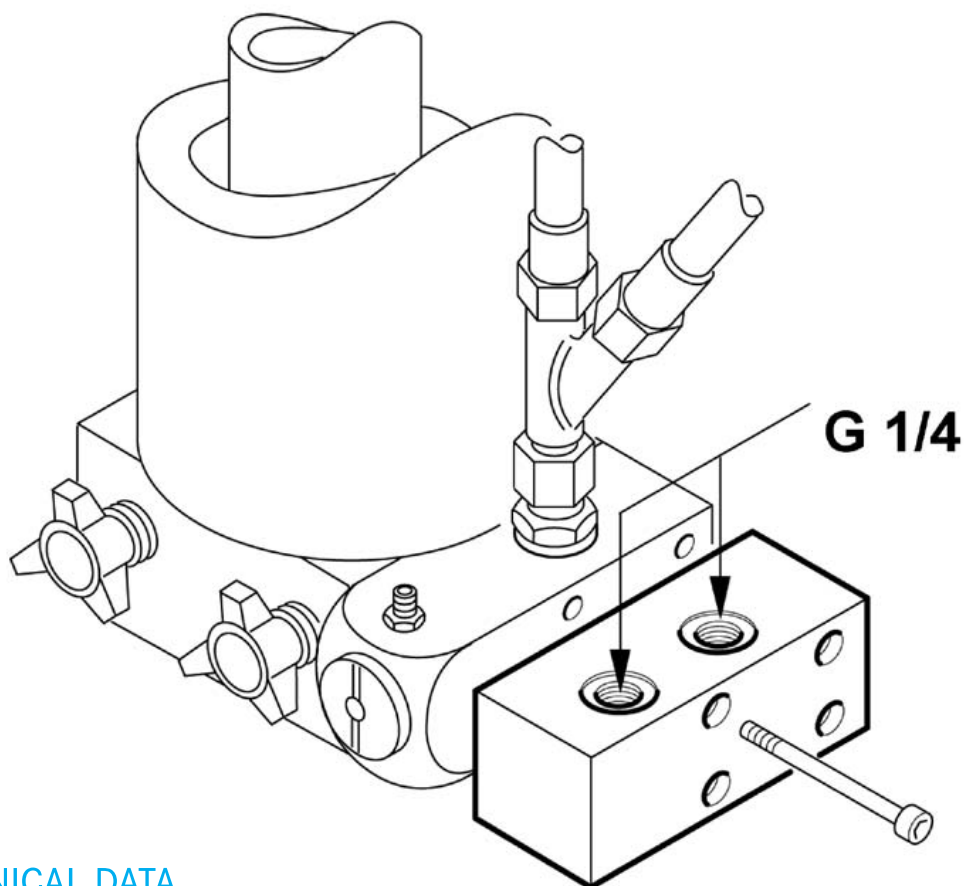
| Designation | Operating pressure | Connections | Nominal width | Air flow rate* | Order number |
|---|--------------------|-------------|---------------|----------------------|--------------|
| | bar / max. | | mm | m ³ /min. | |
| Check valve with pressure gauge and bleed | 350 | 2 x G 3/8 | 5 | 3 | 064547 |

* The specified air flow rate relates to a flow speed of 15 m².

DISTRIBUTION CONNECTORS EXPANSION

Distribution connector for two further connection/filling possibilities.

Installation on pressure retention/check valve



TECHNICAL DATA

- › Maximum pressure: 350 bar

SCOPE OF DELIVERY

- › Distributor piece
- › 4 Allen screws M 6 x 80

Designation

Distributor block complete, for 2 additional connectors

Order number

58968-KD

FILLING STATIONS

Filling stations are used for quick and economical filling of breathing air tanks. The modular design of all panels, the controls and even the filling connectors mean that BAUER KOMPRESSOREN can provide a tailor-made solution for any situation and adapt to your particular requirements.

Please observe the relevant installation regulations!

The filling panel is installed separately from the system. In "open" systems – ones without acoustic insulation – and when spatial separation is required, i.e. the filling panel is in a separate room such as in the sales room or at the testing point.

Selection of alternative models of BAUER filling panels

Whichever filling panel you choose, the BAUER filling station consists of tried-and-tested components that offer you the greatest possible safety and a particularly high level of convenience. We will be happy to help you assemble your filling station according to your individual wishes.

Not only the delivery rate of your compressor but also the amount of filling, speed and space required are important design parameters.

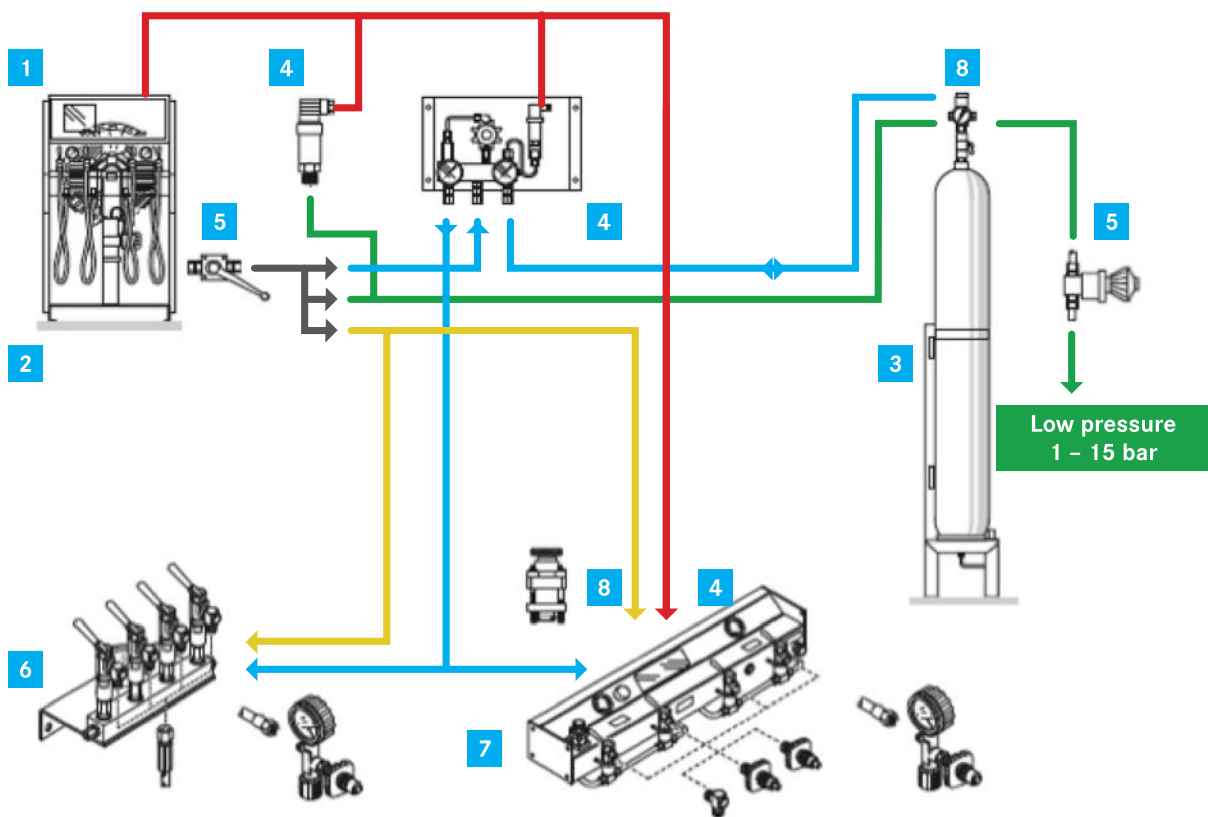
BAUER KOMPRESSOREN has the optimum solution ready for every requirement.

On the following pages, you can find an overview of the installation possibilities and main components from the compressor and purification through to storage and distribution.

A detailed description of the possible combinations of control modules and filling panels is presented for you on the following pages.

EXAMPLES OF COMPRESSED AIRLINES

The corresponding compressed airlines show you alternative installation possibilities.
The item numbers refer to the description on the following pages.



- 1. Compression
- 2. Treatment
- 3. Storage
- 4. Controlling
- 5. Regulating manually
- 6. Distributing compact
- 7. Distributing convenience
- 8. Safety valve

- Automatic selector unit**
- Pressure regulator**
- Direct filling**
- Controlling, regulating, monitoring**

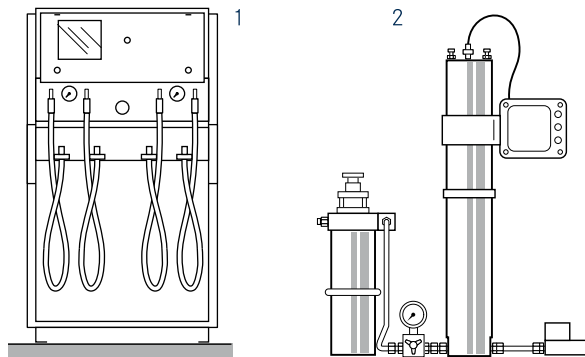
FILLING STATIONS

OVERVIEW: THE COMPONENTS OF THE SYSTEM, THE CONTROL AND ALTERNATIVELY COMBINABLE MODELS OF FILLING PANELS.

COMPRESSING AND PURIFYING

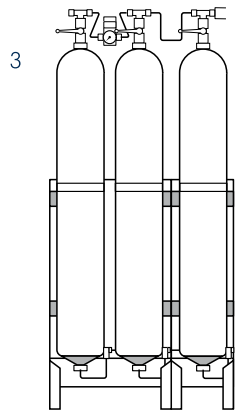
High-pressure compressor unit (1) complete with filter system (2) and safety valve.

We recommend the system with automatic condensate drain and compressor control so that unsupervised compressor operation is possible.



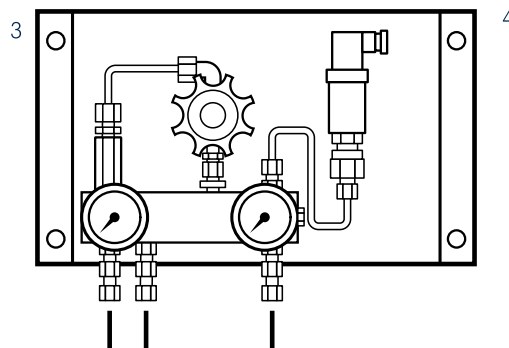
STORAGE

Rack of cylinders (3) to provide an adequate amount of compressed air, see Storage chapter.



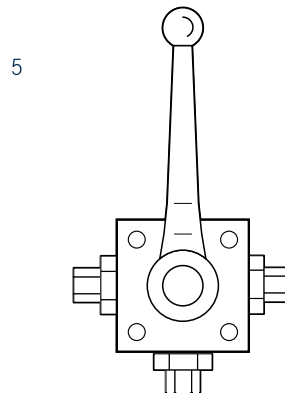
CONTROLLING, AUTOMATICALLY

Automatic selector unit (4) or switch-over valve (5). The advantage of storage bottles can only be used optimally in this way. The automatic unit consists of a pressure retention and check valve with integrated pressure switch or pressure sensor that switches the compressor unit on or off in each case. Using this automatic unit makes a cascade filling connection superfluous.



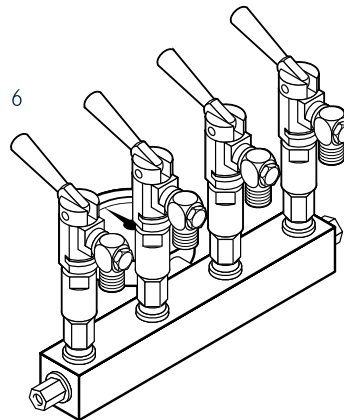
CONTROLLING, MANUALLY

Switch-over valve (5): In this case, it is necessary to switch over the valve manually between the rack of cylinders and the cylinder to be filled after the pressure equalisation has been reached, and for the compressor to be switched on manually. This version is only to be recommended if the system will be operated by trained personnel!



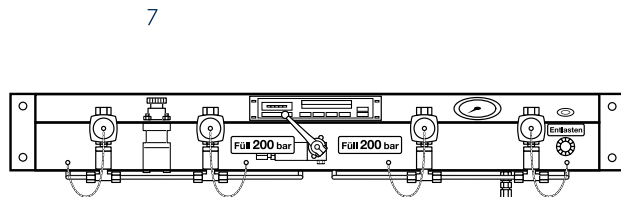
DISTRIBUTION

Distribution panel (6) compact filling panel for mounting on system housings or crash frame. From 1-4 filling connectors can be supplied.



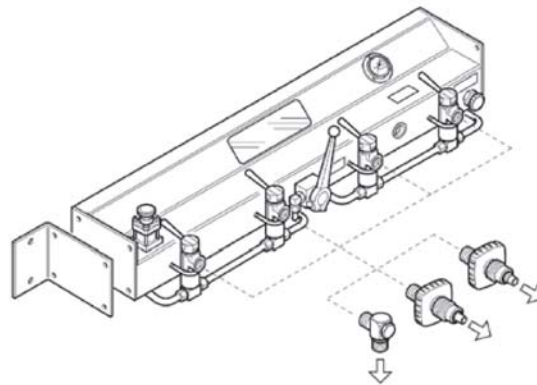
DISTRIBUTION

External filling panel (7): Filling panel with direct connection* for breathing air cylinders or for filling with hose connection possible. Four-way or also six-way connectors available. Optionally, the filling panels are available with safety valve and pressure reducer.



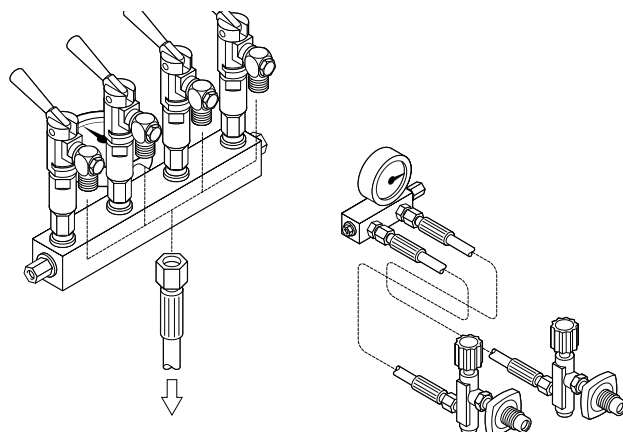
OVERVIEW OF FILLING PANELS – FOR WALL MOUNTING

- › Filling pressure 200 and / or 300 bar
- › Lever filling valves
- › 4 - 6-way filling connectors
- › Connection of filling hoses or direct connection for cylinders (max. 15 kg)
- › Maximum dimensions:
1200 x 138 x 300 mm
(with six-way direct connection)
- › Application range for all free air deliveries
- › Application temperature from +5 to +45 °C,
- › compatible with all units



Panel

- › Filling pressure 200 or 300 bar
- › Lever or handwheel filling valves
- › 1 - 4-way filling connectors
- › Connection of filling hoses
- › Maximum dimensions:
239 x 150 x 150 mm (in four-way hose connection with lever filling valves)
- › Safety equipment
(see table)
- › Application range for all free air deliveries
- › Application temperature from +5 to +45 °C,
- › compatible with all units



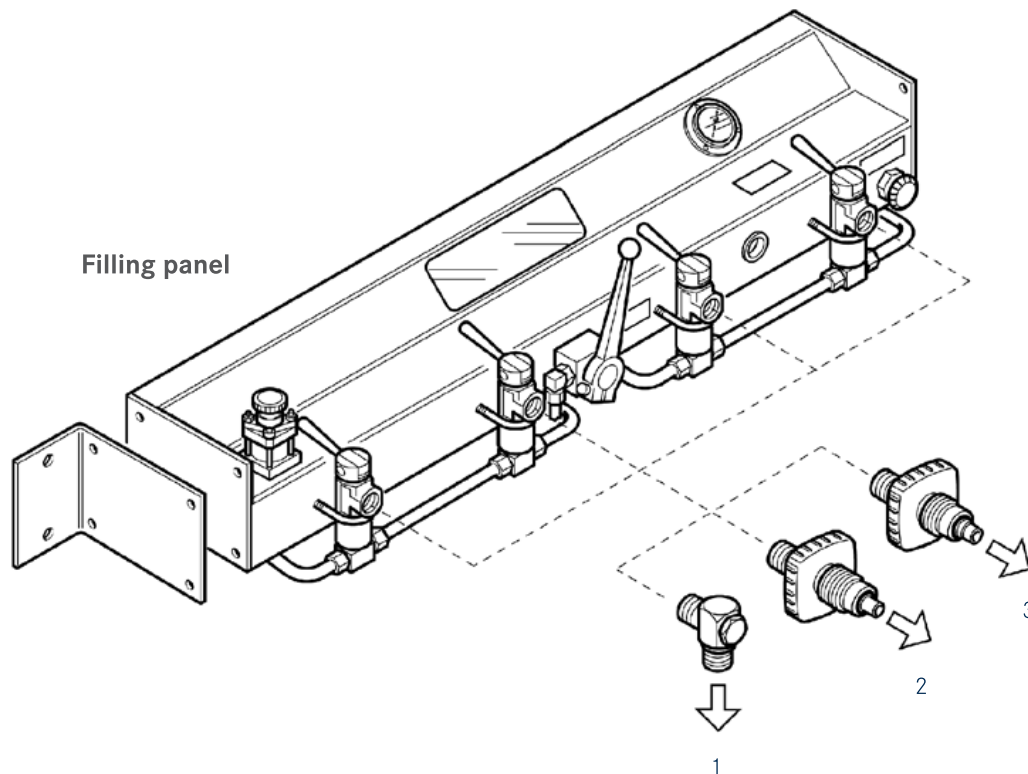
DISTRIBUTION PANEL

TYPE SERIES 'EXTERNAL FILLING PANEL'

Complete filling stations are used for quick and efficient filling of breathing air cylinders. The main components are the compressor unit, rack of cylinders, automatic selector unit or switch-over valve and the filling panel (for a detailed description of function, refer to the 'filling stations' chapter).

The external filling panel can be mounted on the wall as a separate filling panel and is also suitable for installation in another room, equipped with remote control.

Please note the various combination options with the automatic selector unit as well as the BAUER B-CONTROL. Refer to the descriptions in the corresponding chapters.



- 1 Hose connector with angle piece
- 2 Cylinder direct connection PN200
- 3 Cylinder direct connection PN300

SELECTION CRITERIA

- | | |
|----------------------------|---|
| filling valves | <ul style="list-style-type: none"> › Lever |
| Dimensions | <p>with hose connection</p> <ul style="list-style-type: none"> › 4-way 1140 x 138 x 250 mm › 6-way 1200 x 138 x 250 mm <p>with direct connection</p> <ul style="list-style-type: none"> › 4-way 1140 x 138 x 300 mm › 6-way 1200 x 138 x 300 mm |
| Safety equipment | <ul style="list-style-type: none"> › Safety valve › Pressure sensor › Locking › Pressure reducer or switch-over valve optionally with or without B-CONTROL or pressure gauge |
| Area of application | <ul style="list-style-type: none"> › irrespective of the free air delivery › Compatible with all units › Ambient temperature from +5 to +65 °C |

PRODUCT ADVANTAGES

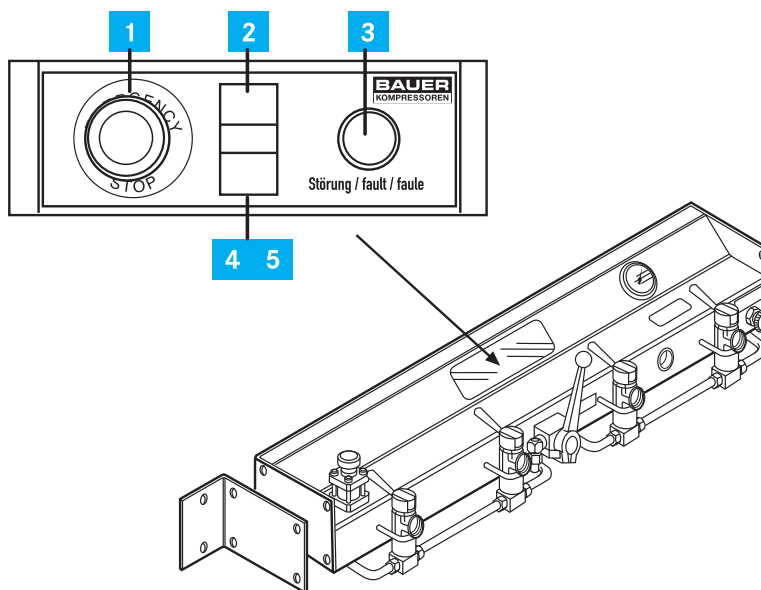
- | | |
|--|--|
| Design | <ul style="list-style-type: none"> › Extraordinary quality of the panel and the filling valves |
| Ergonomics | <ul style="list-style-type: none"> › Tried-and-tested system |
| Range of models | <ul style="list-style-type: none"> › Can be expanded as required with additional panels (see table) |
| Quality and safety | <ul style="list-style-type: none"> › CE standard › Material protected against corrosion › Possibility of fitting safety valves and pressure reducer |
| Combination with filling valves | <ul style="list-style-type: none"> › Large number of different options (see product information for filling valves) › wide range of models for any application |

B-CONTROL OPERATING UNIT

With the B-CONTROL operating unit, it is possible to control and monitor the compressor over length distances. (BAUERHardWired)

THE FOLLOWING FUNCTIONS ARE AVAILABLE

- › Compressor START
- › Compressor STOP
- › Emergency off of the entire system
- › Status display compressor operation
- › Fault display compressor (group fault)



1. Emergency off
2. Start button
3. Malfunction light
4. Stop button
5. Status light

| Design | SIV 225 bar | Pressure sensor | B-Control | Sw.-over valve | Press. red. | Order number |
|--|----------------|--------------------|-----------|-------------------|-------------|--------------|
| Without B-Control operating panel with 4 connections | | | | | | |
| 200 bar, 4x, direct | | | | | | 075026 |
| 300 bar, 4x, direct | | | | | | 075030 |
| 200 bar, 4x, direct | X | | | | | 075027 |
| 200 bar, 4x, direct | X | X | | | | 75028-BC |
| 200/300 bar, 4x, direct | X | | | X | | 075005 |
| 200/300 bar, 4x, direct | X | X | | X | | 75004-BC |
| 200/300 bar, 4x, direct | X | | | | X | 075007 |

EXTERNAL FILLING PANELS WITH DIRECT CYLINDER CONNECTOR

| Design | SIV 225 bar | Pressure sensor | B-Control | Sw.-over valve | Press. red. | Order number |
|--|----------------|--------------------|-----------|-------------------|-------------|--------------|
| Without B-Control operating panel with 6 connections | | | | | | |
| 200 bar, 6x, direct | | | | | | 075040 |
| 300 bar, 6x, direct | | | | | | 073740 |
| 200 bar, 6x, direct | X | | | | | 075041 |
| 200 bar, 6x, direct | X | X | | | | 75050-BC |
| 200/300 bar, 6x, direct | X | | | X | | 075008 |
| 200/300 bar, 6x, direct | X | X | | X | | 75009-BC |
| 200/300 bar, 6x, direct | X | | | | X | 075011 |
| With B-Control operating panel* ³ with 4 connectors | | | | | | |
| 200 bar, 4x, direct | | | X | | | 75029-BC |
| 300 bar, 4x, direct | | | X | | | 73235-BC |
| 200 bar, 4x, direct | X | X | X | | | 73232-BC |
| 200/300 bar, 4x, direct | X | X | X | X | | 73236-BC |
| 200/300 bar, 4x, direct | X | | X | | X | 75006-BC |
| With B-Control operating panel* ³ with 6 connectors | | | | | | |
| 200 bar, 6x, direct | | | X | | | 75043-BC |
| 300 bar, 6x, direct | | | X | | | 73231-BC |
| 200 bar, 6x, direct | X | X | X | | | 73237-BC |
| 200/300 bar, 6x, direct | X | X | X | X | | 73228-BC |
| 200/300 bar, 6x, direct | X | | X | | X | 75010-BC |

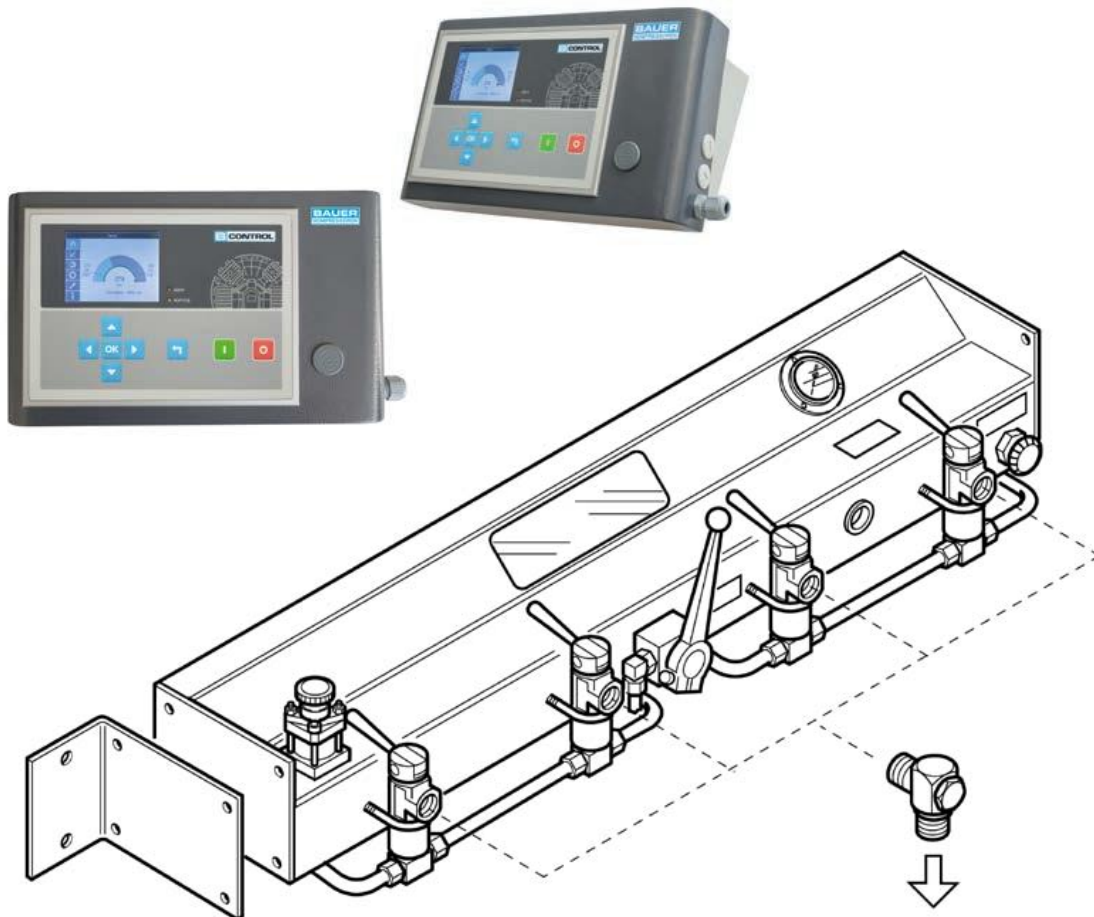
| Design | SIV 225 bar | Pressure sensor | B-Control | Sw.-over valve | Press. red. | Order number |
|---|----------------|--------------------|-----------|-------------------|-------------|--------------|
| With B-Control operating panel* ³ with 10 connectors | | | | | | |
| 200/300 bar, 10x, direct | X | | X | | X | 76769-BC |
| Without BHW* ² switching panel with 4 connectors | | | | | | |
| 200 bar, 4x, direct | X | X | | | | 75028-BHW |
| 200/300 bar, 4x, direct | X | X | | X | | 75004-BHW |
| without BHW* ² switching panel with 6 connectors | | | | | | |
| 200 bar, 6x, direct | X | X | | | | 75050-BHW |
| 200/300 bar, 6x, direct | X | X | | X | | 75009-BHW |
| With BHW* ² switching panel with 4 connectors | | | | | | |
| 200 bar, 4x, direct | | | X | | | 75029-BHW |
| 300 bar, 4x, direct | | | X | | | 73235-BHW |
| 200 bar, 4x, direct | X | X | X | | | 73232-BHW |
| 200/300 bar, 4x, direct | X | X | X | X | | 73236-BHW |
| 200/300 bar, 4x, direct | X | | X | | X | 75006-BHW |
| With BHW switching panel* ² with 6 connectors | | | | | | |
| 200 bar, 6x, direct | | | X | | | 75043-BHW |
| 300 bar, 6x, direct | | | X | | | 73231-BHW |
| 200 bar, 6x, direct | X | X | X | | | 73237-BHW |
| 200/300 bar, 6x, direct | X | X | X | X | | 73228-BHW |
| 200/300 bar, 6x, direct | X | | X | | X | 75010-BHW |
| With BHW switching panel* ² with 10 connectors | | | | | | |
| 200/300 bar, 10x, direct | X | | X | | X | 76769-BHW |
| Without operating panel with 10 connectors | | | | | | |
| 200/300 bar, 10x, direct | X | | | | X | 76769 |

* 2 BHW = BAUERHardWired → possible for systems with conventional control, e.g. Mini-Verticus

EXTERNAL FILLING PANEL WITH HOSE CONNECTION

EXTERNAL FILLING PANELS WITH HOSE CONNECTION FOR WALL MOUNTING

Fitting the BAUER B-CONTROL remote control enables you to control operation from another room at a distance. The individual function messages and malfunction warnings are transferred and shown on the display*. For more details about the B-CONTROL, please refer to the sales documents.



* External display - see price list

| Design | SIV 225 bar | Pressure sensor | B-Control | Sw.-over valve | Press. red. | Order number |
|--|----------------|--------------------|-----------|-------------------|----------------|--------------|
| Without B-Control operating panel with 4 connections | | | | | | |
| 200 bar, 4x, hose | | | | | | 068019 |
| 300 bar, 4x, hose | | | | | | 068020 |
| 200 bar, 4x, hose | ● | | | | | 072590 |
| 200 bar, 4x, hose | ● | ● | | | | 72597-BC |
| 200/300 bar, 4x, hose | ● | | | ● | | 068023 |
| 200/300 bar, 4x, hose | ● | ● | | ● | | 72598-BC |
| 200/300 bar, 4x, hose | ● | | | | ● | 068025 |
| Without B-Control operating panel with 6 connections | | | | | | |
| 200 bar, 6x, hose | | | | | | 075031 |
| 300 bar, 6x, hose | | | | | | 075035 |
| 200 bar, 6x, hose | ● | | | | | 066721 |
| 200 bar, 6x, hose | ● | ● | | | | 073587 |
| 200/300 bar, 6x, hose | ● | | | ● | | 075037 |
| 200/300 bar, 6x, hose | ● | ● | | ● | | 75038-BC |
| 200/300 bar, 6x, hose | ● | | | | ● | 075039 |

* 2 BHW = BAUER HardWired. Only possible for systems with conventional control

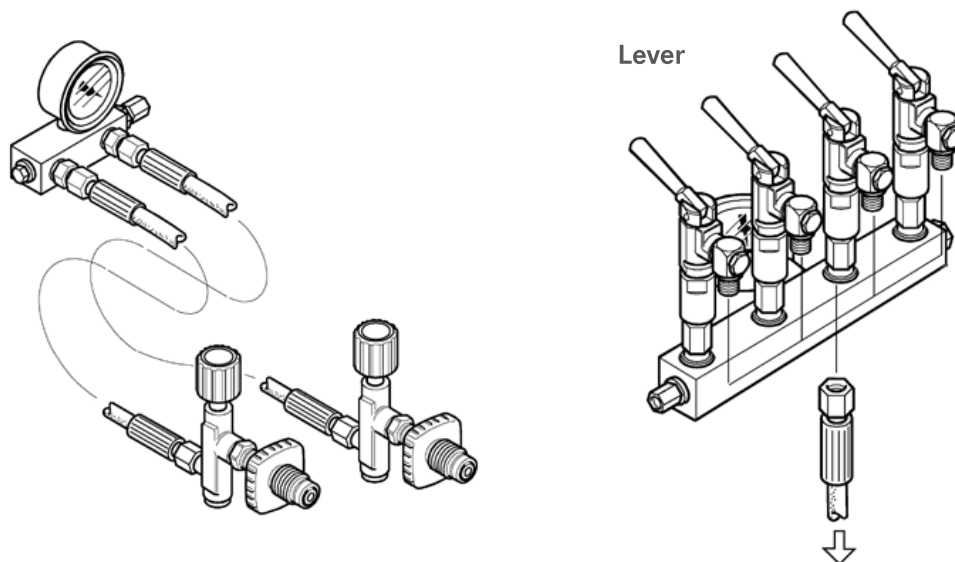
EXTERNAL FILLING PANEL WITH HOSE CONNECTION

| Design | SIV 225 bar | Pressure sensor | B-Control | Sw.-over valve | Press. red. | Order number |
|--|----------------|--------------------|-----------|-------------------|-------------|--------------|
| With B-Control operating panel* ³ with 4 connectors | | | | | | |
| 200 bar, 4x, hose | | | ● | | | 73083-BC |
| 300 bar, 4x, hose | | | ● | | | 73084-BC |
| 200 bar, 4x, hose | ● | ● | ● | | | 72591-BC |
| 200/300 bar, 4x, hose | ● | ● | ● | ● | | 73085-BC |
| 200/300 bar, 4x, hose | ● | | ● | | ● | 73086-BC |
| With B-Control operating panel* ³ with 6 connectors | | | | | | |
| 200 bar, 6x, hose | | | ● | | | 75033-BC |
| 300 bar, 6x, hose | | | ● | | | 75036-BC |
| 200 bar, 6x, hose | ● | ● | ● | | | 75034-BC |
| 200/300 bar, 6x, hose | ● | ● | ● | ● | | 73625-BC |
| 200/300 bar, 6x, hose | ● | | ● | | ● | 73153-BC |
| Without BHW* ² switching panel with 4 connectors | | | | | | |
| 200 bar, 4x, hose | ● | ● | | | | 72597-BHW |
| 200/300 bar, 4x, hose | ● | ● | | ● | | 72598-BHW |
| Without BHW* ² switching panel with 6 connectors | | | | | | |
| 200/300 bar, 6x, hose | ● | ● | | | | 75038-BHW |
| With BHW* ² switching panel with 4 connectors | | | | | | |
| 200 bar, 4x, hose | | | ● | | | 73083-BHW |
| 300 bar, 4x, hose | | | ● | | | 73084-BHW |
| 200 bar, 4x, hose | ● | ● | ● | | | 72591-BHW |
| 200/300 bar, 4x, hose | ● | ● | ● | ● | | 73085-BHW |
| 200/300 bar, 4x, hose | ● | | ● | | ● | 73086-BHW |

* 2 BHW = BAUER HardWired, possible for systems with conventional control, e.g. Mini-Verticus

| Design | SIV 225 bar | Pressure sensor | B-Control | Sw.-over valve | Press. red. | Order number |
|--|----------------|--------------------|-----------|-------------------|-------------|--------------|
| With BHW switching panel* ² with 6 connectors | | | | | | |
| 200 bar, 6x, hose | | | ● | | | 75033-BHW |
| 300 bar, 6x, hose | | | ● | | | 75036-BHW |
| 200 bar, 6x, hose | ● | ● | ● | | | 75034-BHW |
| 200/300 bar, 6x, hose | ● | ● | ● | ● | | 73625-BHW |
| 200/300 bar, 6x, hose | ● | | ● | | ● | 73153-BHW |

DISTRIBUTION PANELS COMPACT



- › **Design:** Compact. Ideal for subsequent installation on compressors, mobile devices or also on ships, because of the low space requirement.
- › **Models:** 1 - 4-way filling connections optionally with handwheel valves or lever.
- › **Quality:** CE standard, corrosion-resistant material.
- › **Filling pressure:** 225 or 330 bar
- › **Safety:** All panels are equipped with a 600 bar pressure gauge for quick checking.
- › **Area of application:** Irrespective of the delivery rate, compatible with all compressors, temperature range +5 °C to +45 °C
- › **Dimensions:** Handwheel version from 109x150x80 mm to 239x115x80 mm (LxHxD) lever version from 109x150x150 mm to 239x150x150 mm (LxHxD)
- › **Installation:** The panels have internal threads on the back (M8). This means they can be mounted on system housings, crash frames or any suitable points.
- › **Pressure inlet:** 1/4" internal thread provided with a screw-in fitting for 8mm pipe Ø.
- › **Scope of delivery:** All distribution panels are supplied with distributor block, filling valves, pressure gauge and UNIMAM filling hoses (1000 mm).
- › **Flexibility:** Can be expanded with other Bauer-Kompressoren products.

Article order number for the 16 available products: see table

YOUR PRODUCT ADVANTAGES AT A GLANCE

DESIGN

- › Simplest possible design
- › Compact, especially for subsequent mounting on systems
- › Ideal for ships and other mobile stations where space is at a premium

RANGE OF MODELS

- › Large number of different equipment variants (see table)

QUALITY AND SAFETY

- › Extraordinary quality of the filling valves (see table)
- › Material protected against corrosion
- › CE standard
- › Equipment with safety valves
- › and pressure reducer

COMBINATION WITH FILLING VALVES

- › Large number of different options (see product information on filling valves)
- › wide range of models for any application

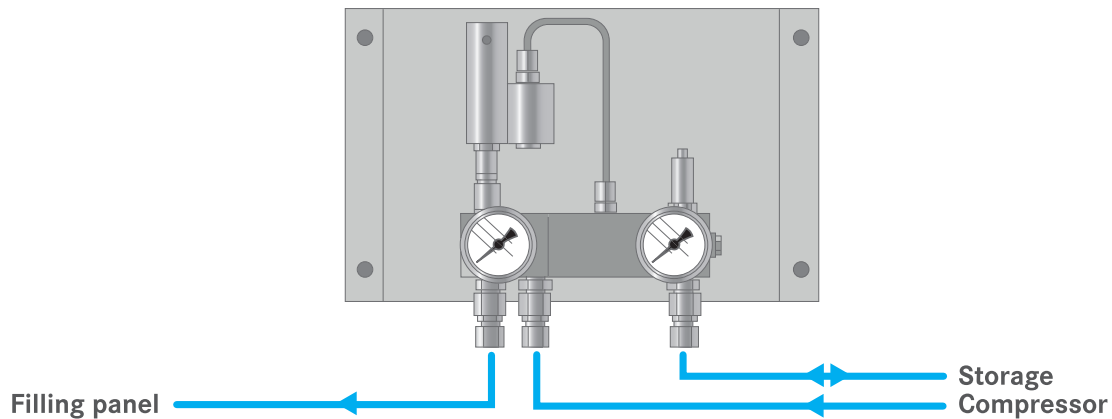
DISTRIBUTION PANEL WITH HOSE CONNECTION

for mounting on portable breathing air compressors (with crash frame)

| Filling pressure | System pressure | Type of filling valve | Order numbers | | | |
|------------------|-----------------|-----------------------|----------------------------|---------------------------|---------------------------|---------------------------|
| | | | With one filling connector | With 2 filling connectors | With 3 filling connectors | With 4 filling connectors |
| bar | bar / max. | | | | | |
| 200 | 225 | Lever | 073519 | 073520 | 073208 | 073521 |
| 300 | 330 | Lever | 073956 | 073957 | 073958 | 073959 |
| 200 | 225 | Handwheel | 074962 | 074963 | 074964 | 074965 |
| 300 | 330 | Handwheel | 074966 | 074967 | 074968 | 074969 |

Equipment: All distribution panels consist of distributor block, filling valve, filling hose and pressure gauge.

AUTOMATIC SELECTOR UNIT



BENEFITS TO YOU

The automatic selector unit permits fast automatic filling of one or more pressure vessels on filling panels from an intermediate unit and simultaneously from the compressor. One pressure vessel always has priority, i.e. the storage unit and the compressor always fill the pressure vessel first. When this is full, the intermediate storage unit is automatically replenished by the compressor until a new empty cylinder is connected to the filling panel.

FUNCTION

Once the pressure vessel has been connected to the filling panel and the cylinder and filling valves have been opened, air flows out of the intermediate storage unit into the cylinder. This takes place until pressure equalisation, for example between the diving cylinders and intermediate storage unit. The compressor switches on automatically and fills the cylinder first up to the maximum filling pressure. Once this is full, the compressor automatically replenishes the intermediate storage unit, and switches off automatically when the maximum filling pressure is reached.

The automatic selector unit performs 3 important functions:

- › Pre-filling of the cylinders from the storage bottle battery by overflow until pressure equilibrium
- › Filling of the diving cylinders up to the filling pressure directly from the compressor
- › Refilling the storage bottle battery to the max. storage pressure

The automatic unit consists of a pressure retention and check valve with integrated pressure sensor that switches off the compressor unit on or off in each case. When this automatic unit is used, a cascade filling connection is superfluous. The two pressure gauges are used for checking the preliminary and back pressure. The pressure sensor is used for controlling the compressors.

AUTOMATIC SELECTOR UNIT WITH PRESSURE SWITCH OR PRESSURE SENSOR FOR COMP-TRONIC / B-CONTROL.

TECHNICAL DATA

- › **Transition:** DN4
- › **Operating pressure:** PN350 bar
- › **Adjustment range:** Pressure relief valve / pressure retention valve: 100 - 350 bar
- › **Dimensions:** W x H x D: 400 x 250 x 150 mm

CONNECTIONS:

- › **Input:** G ³/₈, connection for either Ø 8 mm or Ø 10 mm pipe
- › **Output:** Ø 8 or Ø 10 mm

SCOPE OF DELIVERY

- › The unit is completely piped up and ready to connect

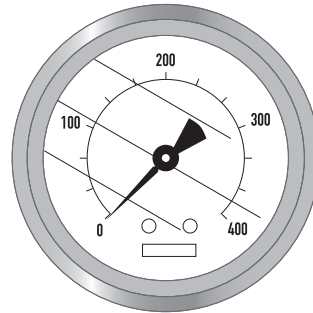
| Designation | Order number |
|--|--------------|
| Automatic selector unit with pressure sensor N25421, up to 350 bar, B-Control and pressure retention valve 80751 | 82116-KD |
| Automatic selector unit with pressure switch N4526, up to 350 bar, BC2/BC6 or MV (without B-Control/Comptronic) and pressure retention valve 80751 | 82116-S02 |
| Automatic selector unit with pressure sensor N25421, up to 350 bar, B-Control and pressure retention valve 80751, stainless steel | 82116-S03 |
| Automatic selector unit with B-Control pressure sensor, up to 420 bar | 82117 |
| Automatic selector unit with pressure switch, up to 350 bar and Tescom pressure retention valve | 062796 |
| Automatic selector unit with pressure sensor N19999 for Comp-Tronic, up to 350 bar and Tescom pressure retention valve | 072862 |
| Automatic selector unit with 2 Comp-Tronic pressure sensors, up to 350 bar | 074875 |

PRESSURE GAUGE

The pressure gauges operate according to the Bourdon tube principle. They are hermetically sealed, filled with glycerine and have internal pressure compensation. We recommend these pressure gauges if there are high dynamic loads, pressure peaks, vibrations and pulsations. The glycerine fill considerably reduces the effects of loads. High display accuracy, stable pointer position and a long service life are the result. The hermetically sealed design prevents condensation from forming on the inside, as well as the penetration of aggressive atmosphere that can lead to corrosion damage. The sturdy stainless steel housing made of CrNi steel has a pressure release opening that is closed with a plastic cap.

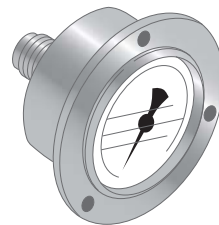
TECHNICAL DATA

- › **Pressure range:** from -1 to 600 bar, depending on version
- › **Pressure display:** in bar and psi
- › **Accuracy class:** 1.6
- › **Medium:** Air, gases and oils
- › **Temperature range:** from -25 to +60 °C
- › **Pressure connection:** R 1/4"
- › **Safety version:** DIN 16007
- › **For front panel mounting (with front ring)**
required hole diameter: 63 mm Ø



MATERIAL

- › **Connection:** Brass
- › **Housing:** Cr Ni steel
- › **Front ring:** Cr Ni steel
- › **Measuring device:** Cu alloy



Connection
rear



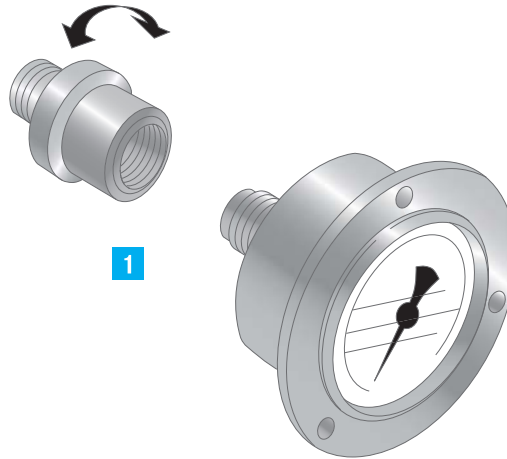
Connection
at bottom

The pressure gauges can be used for air, methane, noble gases as well as for suitable oils. INFO for pressure gauge selection! The pressure to be measured should be in the range from 10-70% of the final scale value!

PRESSURE GAUGE SELECTION

| Pressure range | Connection | | Front ring | Glycerine fill | Order number |
|----------------|------------|-------------|------------|----------------|--------------|
| | bar | bottom rear | | | |
| -1 to 1.5 | - | yes | yes | yes | N3865 |
| 0-10 | - | yes | yes | yes | N16758 |
| 0-16 | - | yes | yes | yes | N1269 |
| 0-16 | - | yes | - | yes | N22331 |
| 0-25 | - | yes | yes | yes | N1270 |
| 0-40 | - | yes | yes | yes | N18041 |
| 0-60 | - | yes | yes | yes | N15543 |
| 0-100 | - | yes | yes | yes | N1271 |
| 0-160 | - | yes | yes | yes | N1273 |
| 0-250 | - | yes | yes | yes | N7673 |
| 0-315 | yes | - | - | - | N1315 |
| 0-400 | - | yes | - | yes | N22330 |
| 0-400 | - | yes | yes | yes | N2623 |
| 0-400 | yes | - | - | - | N4101 |
| 0-600 | yes | - | - | yes | N16872 |
| 0-600 | - | yes | - | yes | N17062 |
| 0-600 | - | yes | yes | yes | N17351 |

SCREWED FITTING FOR PRESSURE GAUGE

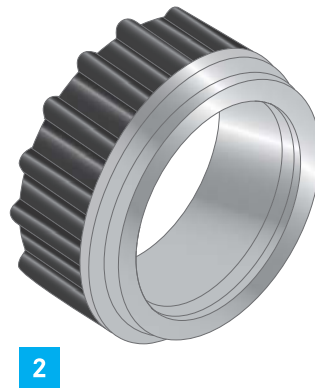


Designation

Screwed fitting for pressure gauge 63

Order number

N3569



Designation

1. Female fitting R 1/4" to 6 mm Ø pipe connection

N3569

Plastic cap for pressure release opening

N26664-KD

2. Rubber protection cap **only for pressure gauges with connection at bottom!**

N15985

NOTES



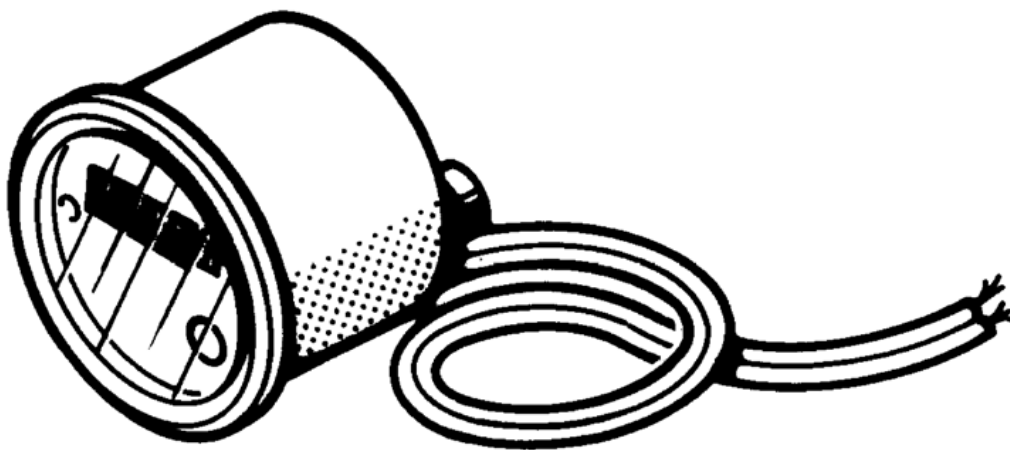
OPERATING HOURS COUNTER

OPERATING HOURS COUNTER, ELECTRIC

Operating hours counter, recommended for electrically operated compressor units.

SCOPE OF DELIVERY

› Counter with clamping bracket for front plate mounting.



| Designation | Dimensions | Order number |
|---|-----------------------|--------------|
| Operating hours counter 230 V, 60 Hz | 50.2 x 25.2 mm | N21791 |
| Operating hours counter 24 VDC | 92 x 92 mm | N20785 |
| Operating hours counter 230 V, 50 Hz | Ø 61 mm | N3263 |
| Operating hours counter 230 V, 60 Hz | Ø 61 mm | N3264 |
| Operating hours counter 115 V, 60 Hz | Ø 61 mm | N3265 |
| Operating hours counter 12/24 V, direct current | Ø 60 mm | N1734 |
| Operating hours counter 24 V, 50/60 Hz | 56 x 56 mm | N23853 |
| Operating hours counter 230 V 60 Hz | Ø 50 mm | N22338 |
| Operating hours counter 230 V | 50.2 x 25.2 mm | N21791 |
| Operating hours counter 230 V | 45 x 45 mm or Ø 50 mm | N16208 |
| Operating hours counter 230 V | 45 x 45 mm or Ø 50 mm | N16625 |
| Operating hours counter 12 VDC | 48 x 24 mm | N18345 |
| Operating hours counter 24 V 50 Hz | 52 x 52 mm | N18365 |

OPERATING HOURS COUNTER, MECHANICAL

Vibration counter, recommended for compressor units with petrol or diesel engines without electrical power supply as well as for explosion-proof compressor units.



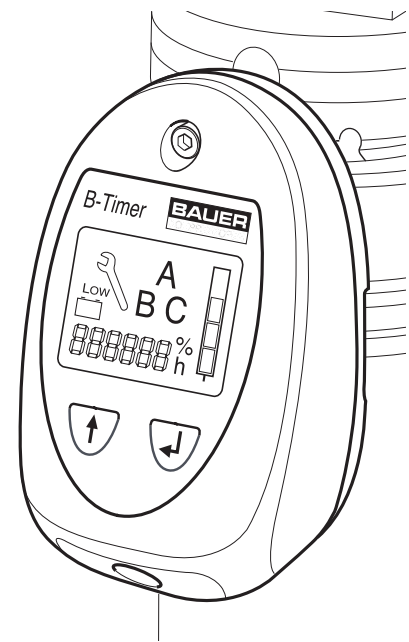
| Designation | Order number |
|---|--------------|
| Vibration counter petrol/diesel engines, 60 mm diameter | N3475 |

OPERATING HOURS COUNTER – CARTRIDGE MONITORING, BATTERY-OPERATED

Electronic operating hours counter including cartridge monitoring, recommended in the breathing air application. Suitable for compressors with petrol/diesel and electric drive.

TECHNICAL DATA

- › **Monitoring:** from P21 to P41
- › **Battery service life:** 3 years at 500 operating hours/year
- › **Operating hours counter:** integrated
- › **Display:** Maintenance, maintenance kit, flashing sign, saturation bar, cartridge number
- › **Properties:** Protected against dust and water spray, insensitive to dust, strong sunshine, high air humidity and sand, starts and stops automatically



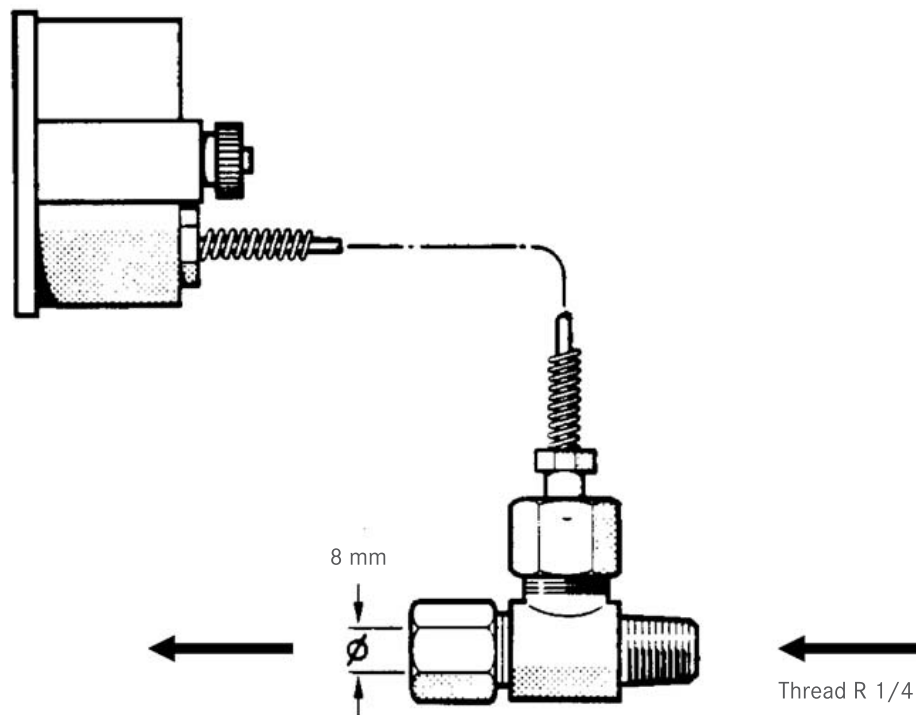
| Designation | Order number |
|---------------------|--------------|
| B-Timer | N27286 |
| Replacement battery | 82743 |

TEMPERATURE GAUGE

Remote temperature gauge for displaying the compression temperature of the last stage (for BAUER UTILUS models up to KAP 180). Application range on the aftercooler with a pipe \varnothing 8 mm.

TECHNICAL DATA

- › **Housing:** \varnothing 60 mm flush-mounted with clamping bracket
- › **Measuring range:** 0 - 200 °C
- › **Length of capillary tube:** 1.5 m
- › **Connection:** Thread R $\frac{1}{4}$



Designation

Remote temperature gauge

Order number

059125

PRESSURE MONITORING

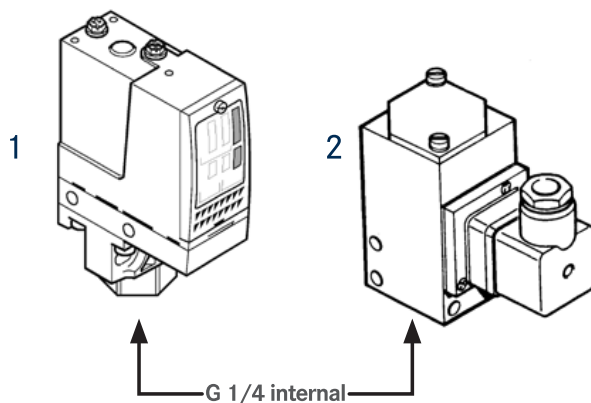
PRESSURE MONITORS

Pressure monitors are devices for automatic pressure monitoring on compressors and pressure accumulators. They monitor oil pressure, intermediate and final pressure, for example. When the set pressures are reached, the electrical contact switches over.

The compact pressure monitor used for typical filling operation is a piston pressure switch. It is used for monitoring the final pressure during filling (breathing air systems) in conjunction with a semi-automatic control. Switch-off pressure can be adjusted.

TECHNICAL DATA

- › **Switching frequency:** maximum 60 / min.
- › **Contiguous load:** with alternating voltage max. 250 V / 5 A with direct current voltage max. 30 V / 5 A
- › **Index of protection:** IP65
- › **Switching accuracy:** +/-3% of the setting range
- › **Temperature range:** -40 °C to +80 °C
- › **Material of the contacts:** Silver
- › **Working contact:** 1 changeover contact



| | Adjustment range | | Hysteresis | Voltage | Max. permitted pressure | | Order number |
|---|------------------|------------|-------------|-----------|-------------------------|------------------|--------------|
| | bar / min. | bar / max. | bar | max. volt | continuous bar | intermittent bar | |
| 1 | 7 | 70 | 4.7 to 50 | 500 | 90 | 160 | N15014 |
| | 10 | 160 | 9.3 to 100 | 500 | 200 | 360 | N16361 |
| | 22 | 300 | 19.4 to 200 | 500 | 375 | 675 | N4527 |
| | 30 | 500 | 23.0 to 300 | 500 | 625 | 1125 | N4526 |
| 2 | 220 | 350 | 30 fixed | 250 | 400 | 400 | N1010 |

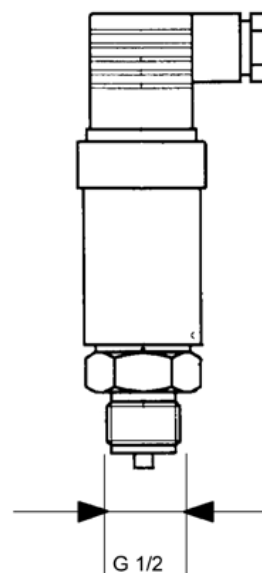
PRESSURE TRANSDUCER

PRESSURE TRANSDUCER FOR COMP-TRONIC

Pressure transducers are used instead of pressure switches in electronic controls with analogue inputs. The sensors are adapted to our COMP-TRONIC. The measured values of the pressure transducers are shown on the display in "bar" or "psi g", and can be evaluated as operating, maintenance, advance warning or fault messages.

TECHNICAL DATA

- › **Medium:** Air, gases
- › **Material of the housing and parts in contact with the medium:** DIN17440-1.4404 (AISI 316 L)
- › **Weight:** 0.3 kg
- › **Linearity deviation (minimum value setting):** +/-0.2% FS
- › **Hysteresis and reproducibility:** +/-0.1 % FS
- › **Nominal output signal:** 1-5 VDC; 3-wire version
- › **Supply voltage:** 10-30 VDC
- › **Current consumption:** < 5 mA
- › **Connection type:** Plug DIN43650
- › **Cable version:** IP 67 – IEC 529
- › **Temperature range:** -40 °C to +85 °C
- › **EMC emission:** EN 50081-1
- › **Accuracy:** typ. +/-0.3% FS; max. +/-1% FS



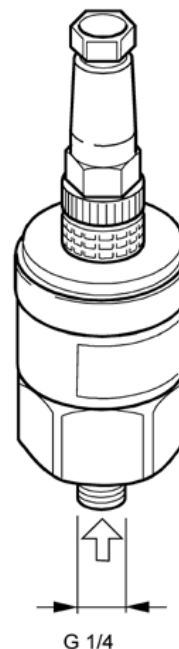
| Designation | Order number |
|--|--------------|
| Measuring range 0 - 25 bar | N19997 |
| Measuring range 0 - 100 bar | N19998 |
| Measuring range 0 - 400 bar | N19999 |
| Measuring range 0 - 600 bar | N20813 |
| Female fitting with pipe connection 6 mm | N20176 |
| Seal-edge ring (seal between sensor and connector) | N3081 |

PRESSURE TRANSDUCER FOR B-CONTROL

The following pressure transducers are available for B-Control: (Output signal 4-20 mA)

TECHNICAL DATA

- › **Medium:** Air, gases
- › **Material of the housing and parts in contact with the medium:** DIN 17440-1.4404 (AISI 316 L)
- › **Weight:** 0.2 kg
- › **Linearity deviation (minimum value setting):** +/-0.1% FS
- › **Hysteresis and reproducibility:** +/-0.1 % FS
- › **Nominal output signal:** 4-20 mA
- › **Supply voltage:** 12.5-28 VDC
- › **Current consumption:** < 28 mA
- › **Connection type:** Plug IEC 947-5-2 M12x1
- › **Cable version:** IP 67 – IEC 529
- › **Temperature range:** -40 °C to +85 °C
- › **EMC emission:** EN 50081-1
- › **Accuracy:** typ. +/-0.1% FS max. +/-5% FS



| Designation | Order number |
|--|--------------|
| Pressure transducer measuring range 0 to 10 bar | N25419 |
| Pressure transducer measuring range 0 to 25 bar | N35655 |
| Pressure transducer measuring range 0 to 100 bar | N25420 |
| Pressure transducer measuring range 0 to 400 bar | N25421 |
| Pressure transducer measuring range 0 to 600 bar | N25422 |
| Pressure transducer measuring range -1 to +1.5 bar | N25418 |
| Seal CU 1/4 | N4051 |

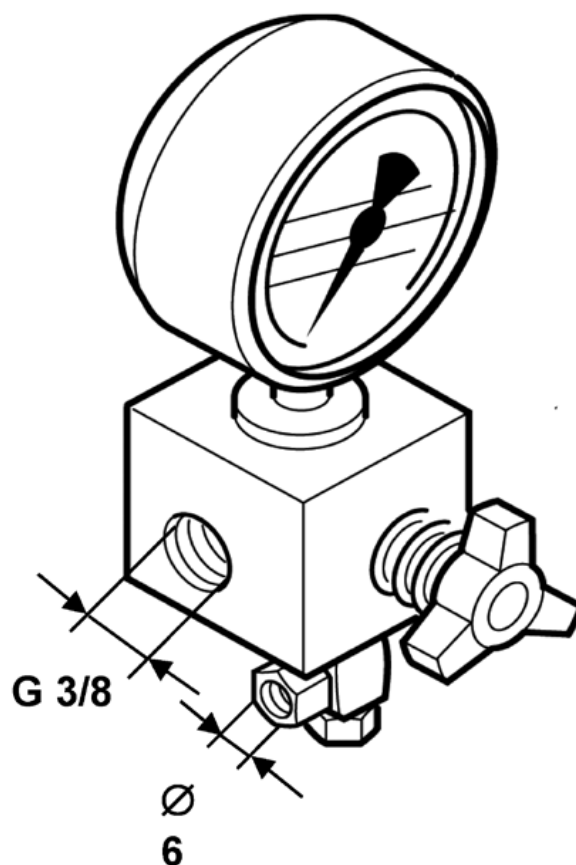
VALVES

BLEED VALVES

These assemblies are provided for installation in the main air flow. This makes it possible to depressurise pressurised filter housings so as to allow the system to be serviced.

SCOPE OF DELIVERY

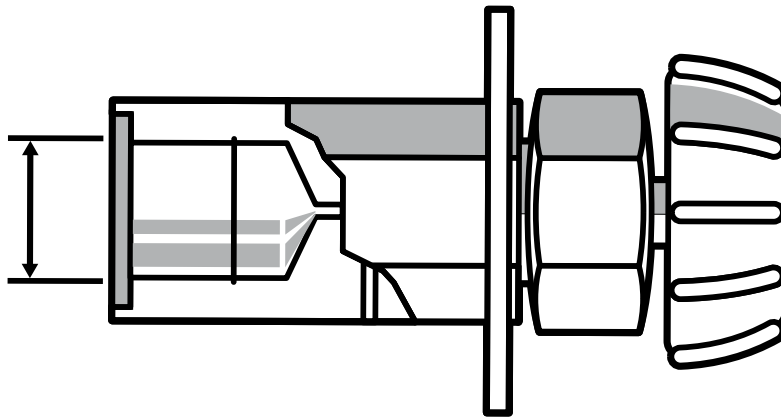
- › Bleed valve complete with pressure gauge



| Designation | Operating pressure | Pressure gauge | Order number |
|---|--------------------|----------------|--------------|
| | bar / max. | bar | |
| Bleed valve with pressure gauge | 420 | 0 – 600 | 064566 |
| Bleed valve with pressure gauge and check valve | 420 | 0 – 600 | 065839 |

SCOPE OF DELIVERY

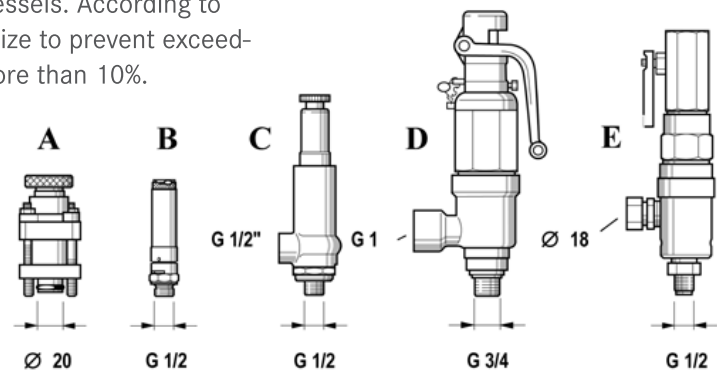
- › Bleed valve only for bleeding, attachment to a covering



| Designation | Operating pressure | Connection thread | Bleed hole | Order number |
|---|--------------------|-------------------|------------|--------------|
| | bar / max. | max. bar | mm | |
| Bleed valve for covering | 350 | G 3/8 internal | 1.5 | 061650 |
| Bleed valve with pressure gauge and check valve | 350 | G 1/4 internal | 1.5 | 060374 |

SAFETY VALVES, TYPE-TESTED WITH TÜV

BAUER safety valves monitor the pressure absolute reliability – for your safety. Safety valves are used according to TRB403 regulations to monitor pressure overshoots in pressure vessels. According to these regulations, they must be of sufficient size to prevent exceeding the permitted working overpressure by more than 10%.



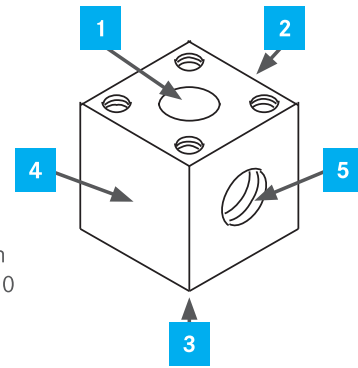
| Operating pressure | Nominal size | Draining output | Connection | Figure/ version | CE acc, to PED | Order no, + pressure indication | |
|--------------------|--------------|-------------------|---|------------------------------|------------------------------|------------------------------------|--------|
| bar | mm | m ³ /h | ein - aus | | 97/23EU | | |
| 100-365 | 3 | 6 | G ³ / ₈ | A - ventable | — | 120541 | |
| 100-365 | 5 | 60 | 20 mm Ø | | CE | 059410 | |
| 8 | 10 | 250 | G ¹ / ₂ | B - ventable | CE | N19349 | |
| 20 | 10 | 520 | G ¹ / ₂ | | CE | N1671 | |
| 40 | 8 | 485 | G ¹ / ₂ | | CE | N18505 | |
| 2,6 - 4,5 | 10 | 105 - 160 | G ¹ / ₂ - G ¹ / ₂ | | C - gas-tight ventable | CE | N26256 |
| 4,6 - 7 | 10 | 160 - 233 | G ¹ / ₂ - G ¹ / ₂ | CE | | N26257 | |
| 7,1 - 11 | 10 | 233 - 348 | G ¹ / ₂ - G ¹ / ₂ | CE | | N26258 | |
| 11,1 - 17 | 10 | 348 - 527 | G ¹ / ₂ - G ¹ / ₂ | CE | | N26259 | |
| 17,1 - 25 | 10 | 527 - 762 | G ¹ / ₂ - G ¹ / ₂ | CE | | N26254 | |
| 25,1 - 35 | 10 | 762 - 1,056 | G ¹ / ₂ - G ¹ / ₂ | CE | | N26174 | |
| 35,1 - 54 | 10 | 1,056 - 1,615 | G ¹ / ₂ - G ¹ / ₂ | CE | | N26175 | |
| 54,1 - 68 | 10 | 1,615 - 2,025 | G ¹ / ₂ - G ¹ / ₂ | CE | | N26160 | |
| 68,1 - 93 | 10 | 2,025 - 2,764 | G ¹ / ₂ - G ¹ / ₂ | CE | | N26253 | |
| 93,1 - 121 | 10 | 2,764 - 3,588 | G ¹ / ₂ - G ¹ / ₂ | CE | | N26252 | |
| 121,1 - 180 | 10 | 3,588 - 5,324 | G ¹ / ₂ - G ¹ / ₂ | CE | | N26233 | |
| 180,1 - 215 | 6 | 2,760 - 3,294 | G ¹ / ₂ - G ¹ / ₂ | CE | | N27387 | |
| 215,1 - 330 | 6 | 3,294 - 5,048 | G ¹ / ₂ - G ¹ / ₂ | CE | | N27394 | |
| 330,1 - 370 | 6 | 5,042 - 5,779 | G ¹ / ₂ - G ¹ / ₂ | CE | | N27846 | |
| 4,1 - 5,8 | 15 | 395 - 537 | G ³ / ₄ - G1 | D - gas-tight ventable | | CE | N26261 |
| 20,5 - 31 | 15 | 1,723 - 2,563 | G ³ / ₄ - G1 | | | CE | N26262 |
| 31,1 - 44 | 15 | 2,563 - 3,620 | G ³ / ₄ - G1 | | CE | N26263 | |
| 135,1 - 170 | 15 | 10,998 - 13,728 | G ³ / ₄ - G1 | | CE | N26264 | |
| 175,1 - 200 | 15 | 13,700 - 16,100 | G ³ / ₄ - G1 | | CE | N26265 | |
| 200,1 - 230 | 15 | 7,780 - 8,940 | G ³ / ₄ - G1 | | CE | N26820 | |
| 230,1 - 250 | 15 | 8,940 - 9,720 | G ³ / ₄ - G1 | | CE | N26821 | |
| 245 - 315 | 6 | 1,200 - 1,550 | G ¹ / ₂ | E - gas-tight ventable | CE | N17067 | |
| 190 - 245 | 6 | 950 - 1,150 | G ¹ / ₂ | | CE | N17068 | |
| 315 - 390 | 6 | 1,550 - 1,900 | G ¹ / ₂ | | CE | N16778 | |
| 390 - 525 | 6 | 1,900 - 2,200 | G ¹ / ₂ | | CE | N17066 | |

When ordering, please specify the pressure setting and state whether TÜV acceptance is required.

NOTES

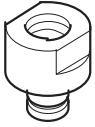

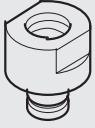

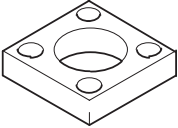


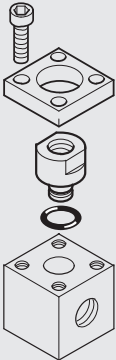


SAFETY VALVE ADAPTER



20 mm is the lower pin diameter of the 059410 safety valve

| Safety valve adapter | 1 | 2 | 3 | 4 | 5 | Top thread or hole | Bottom thread or hole | Notice | Accessories | Order number |
|--|------------|-----------|---------------|-----------|-----|--------------------|-----------------------|---|--|---------------------|
| 63325 300bar  | 20 mm Ø | 1/4 IT | 1/4 IT | X | X | 2xM8 diagonal | 2xM6 diagonal | only for 059410 safety valve | M8x60 socket head screw for 059410 O-ring | N19555 N4882 |
| 67798 500bar  | 20 mm Ø | 1/4 IT | X | 1/4 IT | X | 4xM8 | 4xM8 | | | |
| 68520 420bar  | 20 mm Ø | 3/8 IT | X | 3/8 IT | X | 4xM8 | 4xM8 | | | |
| 72341 360bar  | 20 mm Ø | 3/8 IT | 3/8 IT | 3/8 IT | 1/4 | 2xM8 diagonal | X | only for 059410 safety valve | M8x60 socket head screw for 059410 O-ring | N19555 N4882 |
| 128182 500bar  | 20 mm Ø | 1/4 IT | 1/4 IT | 1/4 IT | X | 4xM8 | 4xM8 | | | |
| 75282 NIRO! 365bar  | 20 mm Ø | X | 3/8 ET | X | X | 2xM8 diagonal | X | only for 059410 sa- fety valve NIRO ! | M8x60 socket head screw for 059410 O-ring | N19555 N4882 |
| 64013 350bar  | 3/8 IT | X | 20 mm Ø | X | X | 2x8,5Ø diagonal | X | For safety valve with 3/8" exter- nal thread to 20 mm | M8x25 socket head screw O-ring | N19548 N4882 |
| 064038-KD Like 64013, only complete with O-ring N4882 and 2 socket head screws N19548 | 3/8 IT | X | 20 mm Ø | X | X | 2x8,5Ø diagonal | X | For safety valve with 3/8" exter- nal thread to 20 mm | M8x25 socket head screw O-ring | N19548 N4882 |
| 90237 350bar  | X | X | 20 mm Ø | X | X | 2x8,5Ø diagonal | X | Blind flange | M8x25 socket head screw O-ring | N19548 N4882 |
| 090318 Like 64013, only complete with O-ring N4882 and 2 socket head screws N19548 | X | X | 20 mm Ø | X | X | 2x8,5Ø diagonal | X | Blind flange | M8x25 socket head screw O-ring | N19548 N4882 |

| Adapter ø 20 mm | 1 | | 3 | Hole | | | Examples | Note | Accessories | Order number |
|--|-----------|---|---------------|------|---|--------|---|---|-------------------------------|-----------------|
| 67797  350bar | 1/2 IT | X | 20 mm Ø | X | X | X | Hofer  | Mainly used for Hofer valves | O-Ring | N4882 |
| 64118  350bar | 3/4 IT | X | 20 mm Ø | X | X | X | Leser  | Mainly used for Leser Ven- tile valves | O-Ring | N4882 |
| 64119  | X | X | X | X | X | 4x8,5Ø | X | Mainly used for Hofer and Leser Ventile valves | M8x25 socket head screw | N19548 |
| N4882  | | | | | | | | O-ring, also for 059410 safety valve | | |
| N19548  | | | | | | | | M8x60 socket head screw | | |
| Montage  | | | | | | | | Important! Always use 4 screws for assembly. | | |

IT = Internal thread, ET = External thread. Attention! All images are for illustrative purposes only and may differ from the original!

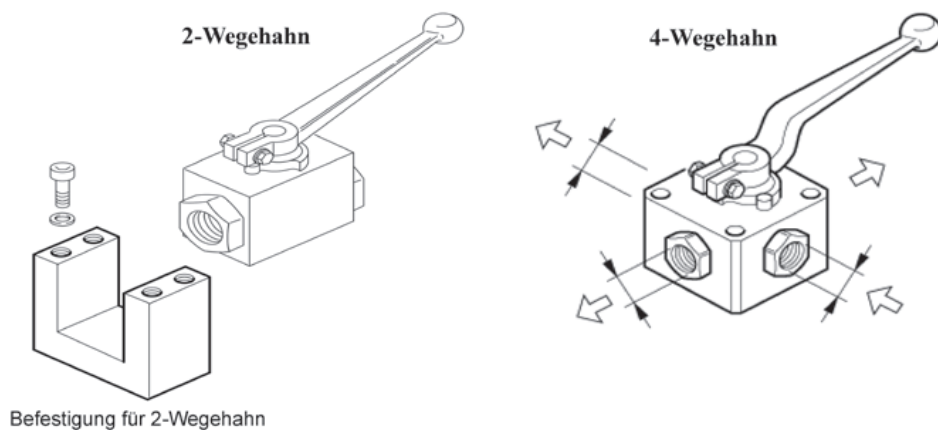
BALL VALVES

SHUT-OFF BALL VALVES

Ball valves are characterised by their favourable, linear flow, and permit high flow rates. The seals are also suitable for oil-free and dry air. The switching handle makes the OPEN-CLOSED position visible and is easy to operate. The switching handle is supplied.

Temperature of the medium: -20 °C to +100 °C.

If shut-off valves have developed a leakage over time, they can be repaired using the repair kits described below.



| Designation | Thread | DN | L | B | Repair kits | Order number | |
|---|--------|----|-----|----|-------------|--------------|--------|
| Block ball valve | | mm | bar | mm | mm | | |
| 2-way valve | G 3/8 | 10 | 350 | | | N26450 | |
| 2-way valve | G 1/4 | 6 | 350 | | | N26449 | |
| 4-way valve with X-hole | G 1/8 | 3 | 400 | 55 | 45 | N6452 | N3352 |
| 3-way valve with L-hole | G 1/4 | 6 | 400 | 82 | 70 | N6485 | N3045 |
| 4-way valve with X-hole | G 1/4 | 6 | 400 | 70 | 55 | N6486 | 55241 |
| 2-way valve | G 1/4 | 6 | 500 | 50 | 25 | | N26462 |
| 2-way valve | G 3/8 | 10 | 500 | 60 | 30 | | N26463 |
| 2-way valve | G 1/2 | 12 | 500 | 75 | 35 | | N4027 |
| Optional | | | | | | | |
| Fastening bracket for two-way valve N26462 (G1/4) 500 bar | | | | | | | 87476 |
| Fastening bracket for two-way valve N26449 (G1/4) 350 bar | | | | | | | 12546 |

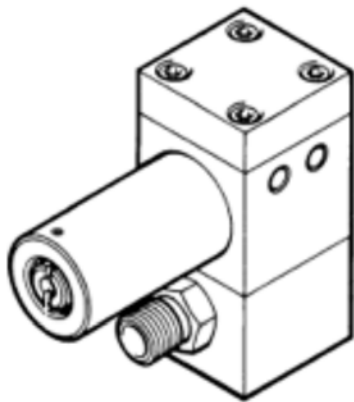
PRESSURE RETENTION VALVES

The pressure retention valves provide for correct and operationally safe function of the air and gas compressors as well as the air and gas purification systems.

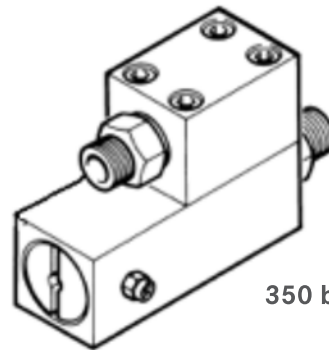
Furthermore, these reduce the dynamic pressure load on the fine post-cleaner pressure vessels.

We recommend pressure retention valves should be checked every 500 operation hours or once a year to ensure they are functioning correctly. Every 1000 operating hours or every 2 years, renew the internal components (e.g. seals, sleeves, O-rings and pistons).

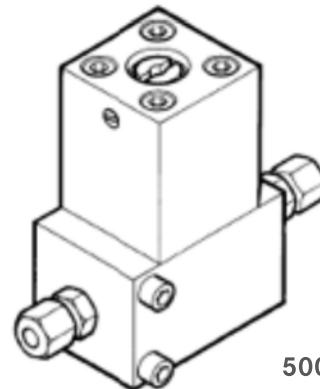
Please also refer to our maintenance kits.



400 bar



350 bar



500 bar

PRESSURE RETENTION VALVES

The pressure retention valves provide for correct and operationally safe function of the air and gas compressors as well as the air and gas purification systems.

Furthermore, these reduce the dynamic pressure load on the fine post-cleaner pressure vessels.

We recommend pressure retention valves should be checked every 500 operation hours or once a year to ensure they are functioning correctly. Every 1000 operating hours or every 2 years, renew the internal components (e.g. seals, sleeves, O-rings and pistons).

Please also refer to our maintenance kits.

| Operating pressure | Setting range | Outlet pipe | Remarks | Order number |
|--------------------|---------------|-------------|-------------|--------------|
| bar / max. | bar | mm | | |
| 150 | 100 | 8 mm | | 062516 |
| 150 | 100 | 8 mm | | 071043-KD |
| 350 | 240 | 8 mm | | 063838-KD |
| 350 | 240 | 8 mm | AMAG | 065469-KD |
| 350 | 240 | 10 mm | Japan | 068385 |
| 350 | 240 | 8 mm | | 075330 |
| 350 | 240 | 8 mm | only oxygen | 075413-KD |
| 350 | 240 | 8 mm | AMAG | 090062-KD |
| 350 | 240 | | P-filter | 80751 |
| 350 | 240 | | CNG | 81401 |
| 350 | 240 | ¼ NPT | NPT vers. | 057351 |
| 350 | 240 | | Diving | 80760 |
| 350 | 240 | | Japan | 80804 |
| 350 | 240 | | | 80815 |
| 400 | 270 | 10 mm | | 056705 |
| 400 | 270 | 12 mm | | 060510 |
| 500 | 340 | 6 mm | PURE AIR | 071386 |
| 500 | 340 | 8 mm | | 068275 |

PRESSURE REDUCER

BAUER pressure reducers achieve excellent control precision in high-pressure technology for medium and relatively high flow rates, because of the valve design with pressure relief.

The regulators are characterised by a lag-free response, they are largely insensitive to intake pressure fluctuations, leak-tight on zero flow rate, have a high wear resistance and thus guarantee a long service life. All other possible changes to the material such as corrosion are avoided. In this way, you maintain the precision and function without impairment. The control is not dependent on temperature, because spring-loaded pressure reducers are used. An integrated overflow valve allows the secondary pressure to be reduced in the closed pressure system.

Pressure reducers are used for reducing the pressure of the medium from a higher to a lower level, as a result of which a corresponding flow rate is set based on the particular valve structure; furthermore, they reduce the pilot pressure from a monitoring unit for controlling a dome pressure reducer (secondary pressure).

DESIGN:

The housing and spring housing are produced from Dural or aluminium bronze; the valve spindle and valve seat are stainless steel. A grippy dial is used for infinitely variable pressure setting.

NOTE:

To safeguard the secondary pressure, we recommend a BAUER safety valve should be installed in the pressure line without fail; refer to the 'Safety' chapter for the product description and order numbers. The pressure setting must be to the nominal pressure of the consumer, e.g. the distributor station. To avoid damage by particles, we recommend fitting a suitable particulate filter $\leq 20 \mu\text{m}$ on the inlet side e.g. order number 060490.

EXPLANATION:

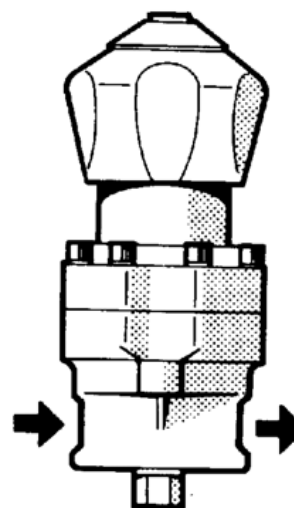
Primary pressure is the inlet pressure before the pressure reducer. Secondary pressure is the outlet pressure after the pressure reducer. This information is necessary to identify the correct article in your order.

PRESSURE REDUCER

Pressure reducer for installation in lines and control panels. High control accuracy. When ordering, please specify the required primary and secondary pressure as well as the order number. Generally, it is essential to fit a particulate filter at the inlet of the pressure reducer. Recommended filter: Particulate filter N3635.

TECHNICAL DATA

- › **Medium:** Air, non-aggressive gases (N₂ + noble gases)
- › **Design:** Housings and spring housings are made of Dural or aluminium bronze produced, the piston rings from aluminium bronze. The valve spindle and valve seat are from stainless steel. A grippy dial is used for infinitely variable pressure setting.
- › **Temperature range of the medium:** -10 °C to +100 °C
- › **Pressure range:** Primary pressure: 250 or 420 bar
Secondary pressure: 0.1 to 280 bar
- › **Connection:** G 3/8 internal primary and secondary sides
- › **Dimensions:** Height: 200 mm, Ø: 80 mm



| Connection | Primary pressure | Secondary pressure | Air flow rate* | Repair kits | Order number |
|--|------------------|--------------------|---------------------|-------------|--------------|
| | bar / max. | bar | m ³ /min | | |
| G 3/8 | 250 | 0.1 – 50 | 7.4 | On request | N4795 |
| G 3/8 | 250 | 0.1 – 105 | 14.5 | On request | N4794 |
| G 3/8 | 420 | 0.1 – 11 | 1.6 | On request | N4796 |
| G 3/8 | 420 | 0.1 – 50 | 7 | N 6487 | N4797 |
| G 3/8 | 420 | 0.5 – 140 | 16 | On request | N4798 |
| G 3/8 | 420 | 28 – 280 | 32 | N6292 | N3967 |
| Optional | | | | | |
| Particulate filter | | | | | N17325 |
| Pressure reducer for breathing air systems | | | | | N21826 |

* At max. primary pressure and max. secondary pressure, in relation to +20 °C and 1 bar absolute

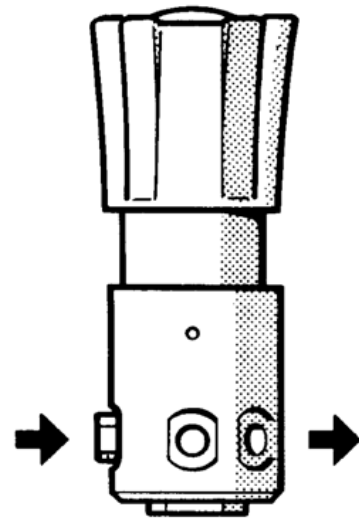
PRESSURE REDUCER AIR, GASES

Pressure reducer for installation in lines and control panels. High control accuracy. When ordering, please specify the required primary and secondary pressure as well as the order number.

Recommended filter: We recommend the BAUER particulate filter, N3635, which has a filter fineness of 20 µm and reliably traps particles, thereby ensuring a long service life of the pressure reducer.

TECHNICAL DATA

- › **Medium:** Air, gases
- › **Design:** Housing and spring housing made of aluminium alloy. Pistons made of aluminium bronze, membrane of metal.
- › **Pressure release valve, valve seat:** Soft plastic (Peek). The version with a dial is recommended for infinitely variable pressure setting with sealed secondary pressure, available at extra cost.
- › **Temperature range of the medium:** -20 °C to +70 °C
- › **Pressure range:** Primary pressure: 465 bar Secondary pressure: 1.5 to 410 bar
- › **Connection:** G 3/8 internal primary and secondary sides
- › **Dimensions:** Height: 200 mm, Ø: 70 mm, Ø: 90 mm (handwheel)



| Primary pressure | Secondary pressure | Air flow rate* | Repair kits | Order number |
|------------------|--------------------|---------------------|-------------|--------------|
| bar / max. | bar | m ³ /min | | |
| 465 | 1.5 - 52 | approx. 7.5 | N24264 | N15859 |
| 465 | 34 - 240 | approx. 6.1 | N21795 | N15860 |
| 465 | 207 - 410 | approx. 4.4 | N24265 | N15861 |

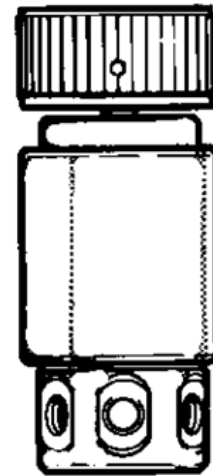
* At 420 bar primary pressure and max. secondary pressure in relation to +20 °C and 1 bar absolute

PISTON PRESSURE REDUCER AIR

The valve seats are protected by a 20 µ particulate filter. A grippy dial for infinitely variable pressure setting. A mounting is required for installation in control panels. When ordering, please specify the required primary and secondary pressure as well as the order number.

TECHNICAL DATA

- › **Medium:** Air
- › **Design:** Housing made of anodised aluminium, valve seat of bronze and stainless steel. Seals made of Viton.
- › **Temperature range of the medium:** -10 °C to +100 °C
- › **Pressure range:** Primary pressure: max. 420 bar
- › **Secondary pressure:** 0.1 to 350 bar
- › **Air flow rate:** 155Nm³/h, 420 bar
- › **Connection:** ¼ NPT primary and secondary sides
- › **Dimensions:** Height: 140 mm, Ø: 57 mm



| Designation | Air flow rate* | Order number |
|---------------------------------|----------------------|--------------|
| | m ³ /hrs. | |
| Pressure reducer | 155 | N21826 |
| Mounting for pressure reducer | | 74039 |
| Repair kit for pressure reducer | | N23086 |

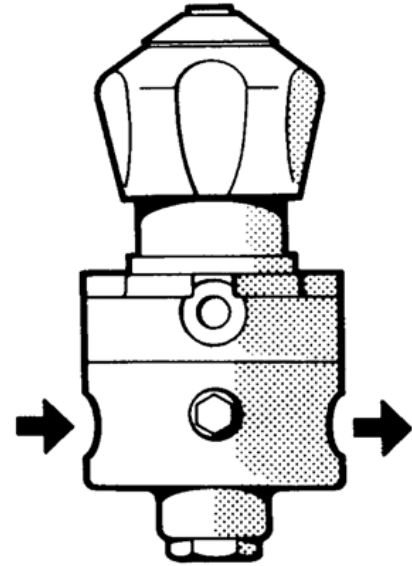
| Optional: Designation | Number of | Pipe diameter | Connection thread | Order number |
|-------------------------|-----------|---------------|-------------------|--------------|
| Straight male connector | 2 | 6 S | ¼NPT | N20264 |
| Union nut | 2 | 6 S | | N3610 |
| Cutting ring | 2 | 6 S | | N3663 |
| Straight male connector | 2 | 8 S | ¼ NPT | N20266 |
| Union nut | 2 | 8 S | | N3608 |
| Cutting ring | 2 | 8 S | | N3609 |
| Screw plug | 2 | | ¼ NPT | N4472 |

MEMBRANE PRESSURE REDUCER

Pressure reducer for installation in lines and control panels. High control accuracy and grippy dial for infinitely variable pressure setting. Recommended filter: Particulate filter N3635. When ordering, please specify the required primary and secondary pressure as well as the order number.

TECHNICAL DATA

- › **Medium:** Air, gases
- › **Design:** Housing made of Dural aluminium,
Spring housing of aluminium,
Valve seat and cone made of stainless steel with
Teflon coating, membrane of Dural / Perbunan
- › **Temperature range of the medium:** -10 °C to +100 °C
- › **Connection:** G 3/4 internal primary and secondary sides
- › **Dimensions:** Height: 200 mm, Ø: 83 mm
- › **Weight:** approx. 1.8 kg



| Primary pressure | Secondary pressure | Air flow rate* | Repair kits | Order number |
|------------------|--------------------|---------------------|-------------|--------------|
| bar / max. | bar | m ³ /min | | |
| 25 | 0.1 – 1 | 0.75 | | N22531 |
| 42 | 0.1 – 1 | | | N23296 (CNG) |
| 42 | 0.3 – 5 | 3.5 | | N17612 |
| 42 | 0.5 – 11 | 6.0 | | On request |
| 42 | 0.5 – 25 | 14.0 | | N21940 |
| 42 | 10 – 31 | 11.0 | | N21106 |
| 60 | 0.1 – 1 | 1.0 | N6291 | N3632 |

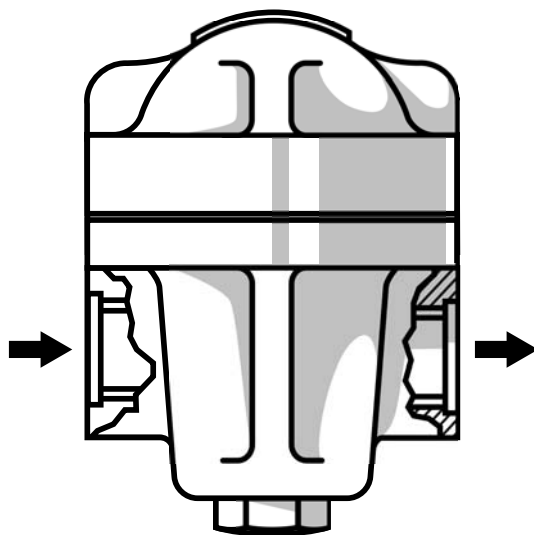
DOME PRESSURE REDUCER

Direct-action dome pressure reducer for installation in lines. Soft-skin seal – tight closing at zero flow rate. Recommended filter: N4817 for PN420. We recommend the BAUER particulate filter N4817; with its filter fineness of 20 µm, it reliably traps particles and thus guarantees the long service life of the pressure reducer.

When ordering, please specify the required primary and secondary pressure as well as the order number.

TECHNICAL DATA

- › **Medium:** Air, gases
- › **Design:** Housing and dome made of forged aluminium bronze. Valve spindle and valve seat made of stainless steel
- › **Ambient temperature:** +5 °C to +45 °C
- › **Temperature range of the medium:** -20 °C to +100 °C, in special version down to -50 °C



| Primary pressure | Secondary pressure | Air flow rate | Height | Diameter | Screw-in thread | Repair kits | Order number |
|------------------|--------------------|---------------------|--------|----------|-----------------|-------------|--------------|
| bar / max. | bar | m ³ /min | mm | mm | inch | | |
| 420 | 0.1 – 280 | 160 | 160 | 120 | G 1 | N6294 | N25191 |

* At max. secondary pressure in relation to +20 °C and 1 bar absolute

HIGH-PRESSURE REDUCING UNIT

Pressure reduction on outlet side
 For wall mounting
 For stationary applications
 Dimensions with ball valves: approx. 580 mm x 250 mm x 224 mm (WxHxD)

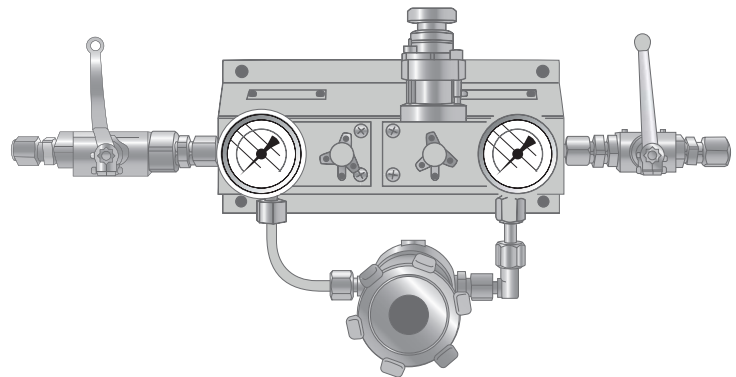
SCOPE OF DELIVERY (COMPLETELY MOUNTED ON WALL PANEL)

- › 2x ball valves
- › 1x pressure gauge on inlet side
- › 1x pressure gauge on outlet side
- › 1x pressure reducer
- › 1x safety valve (setting value depends on required outlet pressure!)
- › 2x bleed valve
- › 1x panel for wall mounting

These high-pressure reducing stations cannot be used for intake pressure reduction because of the technical configuration! The outlet pressure setting should only be adjusted rarely! (Not intended for continuous adjustment).

Permitted for the following media

Air, nitrogen, helium, argon.



| Input pressure | Output pressure | Comment | Order number |
|----------------|-----------------|---------|--------------|
| bar / max. | from / to | mm | |
| 365 | 365 | 5-40 | 077838-V001 |
| 365 | 365 | 41-100 | 077838-V002 |
| 365 | 365 | 101-220 | 077838-V003 |
| 365 | 365 | 221-350 | 077838-V004 |
| 365 | 365 | 41-100 | 077838-V005 |
| 365 | 365 | 41-230 | 077838-V006 |

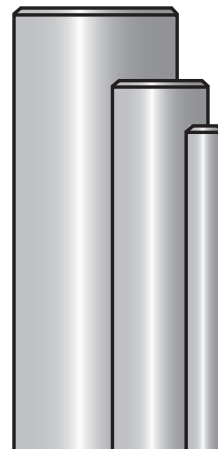
When ordering, you must specify the required maximum outlet pressure!

PRECISION STAINLESS STEEL PIPE

Stainless steel pipes offer the best protection against corrosion in the piping system.

TECHNICAL DATA

- › **External diameter:** from 6 – 42 mm
- › **Internal diameter:** from 3 – 38 mm
- › **Lengths:** 3 m standard, 6 m on request
- › **Wall thickness tolerance:** Class T1 acc. to DIN 2462
- › **Material:** 1.4541
- › **Available lengths:** Standard 3 m
6 m on request (minimum order 15 pipes)



IMPORTANT INFORMATION

The pressure information in the table below (page 95) has been calculated acc. to DIN 2413 application range I for 20 °C room temperature. At higher temperatures, only a reduced pressure loading is permitted, which can be calculated by means of a calculation factor.

The guidance value for the flow speed in pipes is 6 – 15 m/s

Material coefficient: $K = 235 \text{ N/mm}^2$ safety factor: $S 1.5$

Example with 50 °C pipe temperature and 200 bar pressure:

Factor = 0.945, which means: $200 \text{ bar} \times 0.945 = 189 \text{ bar max. pressure}$

Example with 100 °C pipe temperature and 200 bar pressure:

Factor = 0.885, which means: $200 \text{ bar} \times 0.885 = 177 \text{ bar max. pressure}$

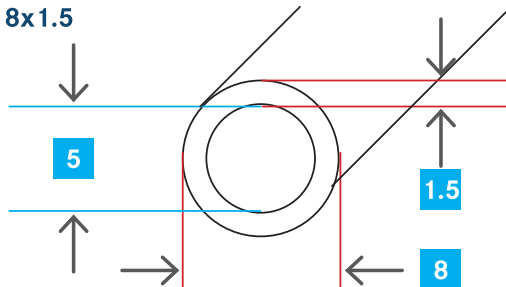
See DIN 17440 for the exact calculation

PRECISION STAINLESS STEEL PIPES

| mm/ bar Ø/ max. | 120 | 135 | 140 | 165 | 170 | 180 | 205 | 220 | 297 | 345 | 385 | 425 | 450 | 540 |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-----|--------|--------|
| 6x1.0 | | | | | | | | | | | N3616 | | | |
| 6x1.5 | | | | | | | | | | | | | | N3617 |
| 8x1.0 | | | | | | | | | N3618 | | | | | |
| 8x1.5 | | | | | | | | | | | N3619 | | | |
| 8x2.0 | | | | | | | | | | | | | | N18356 |
| 10x1.0 | | | | | | | N3620 | | | | | | | |
| 10x1.5 | | | | | | | | | | N4699 | | | | |
| 10x2.0 | | | | | | | | | | | | | N17973 | |
| 12x1.0 | | | | | | | N15098 | | | | | | | |
| 12x1.5 | | | | | | | | | N3621 | | | | | |
| 12x2.0 | | | | | | | | | | | N16242 | | | |
| 12x3.0 | | | | | | | | | | | | | | N17118 |
| 15x1.0 | | | | N15130 | | | | | | | | | | |
| 15x1.5 | | | | | | | N3622 | | | | | | | |
| 16x2.0 | | | | | | | | | N15504 | | | | | |
| 18x1.0 | | | N15934 | | | | | | | | | | | |
| 18x1.5 | | | | | | | N15467 | | | | | | | |
| 20x2.5 | | | | | | | | | N20942 | | | | | |
| 20x3.0 | | | | | | | | | | | N23672 | | | |
| 22x1.5 | | | | | N15466 | | | | | | | | | |
| 22x2.0 | | | | | | | | N16255 | | | | | | |
| 28x1.5 | | N15836 | | | | | | | | | | | | |
| 28x2.0 | | | | | | N18278 | | | | | | | | |
| 42x2.0 | N17878 | | | | | | | | | | | | | |

Max. pressure values at 20 °C

**Example:
8x1.5**



Please note the correction calculation of the pressure based on the temperature. See (Important information!) on page 94.

PIPE CLAMPS

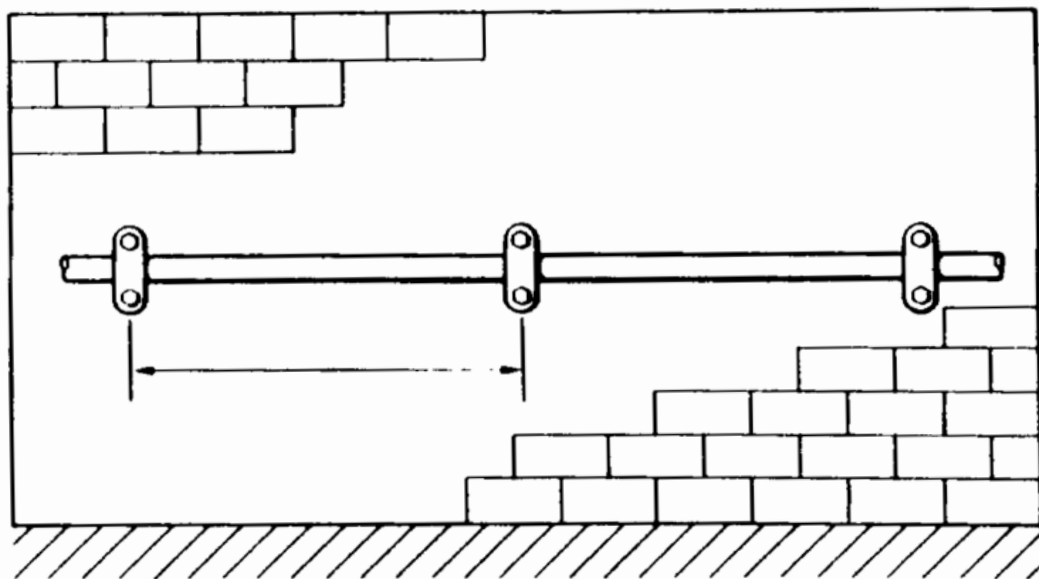
These parts are fastening elements for the piping to be routed.
The following versions can be used.

Recommended clamp spacing for attachment to an immobile base:

| Designation | Clamp spacing |
|-----------------|---------------|
| Pipe Ø 6-12 mm | 0.9 m |
| Pipe Ø 15-22 mm | 1.2 m |

Recommended clamp spacing for attachment to a vibrating base:

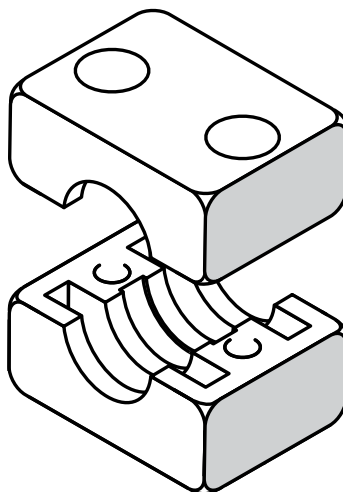
| Designation | Clamp spacing |
|-----------------|---------------|
| Pipe Ø 6-12 mm | 0.45 m |
| Pipe Ø 15-22 mm | 0.6 m |



Schellenabstand

PLASTIC CLAMPS

For attaching individual pipes. Recommended for below 60 °C operating temperature.

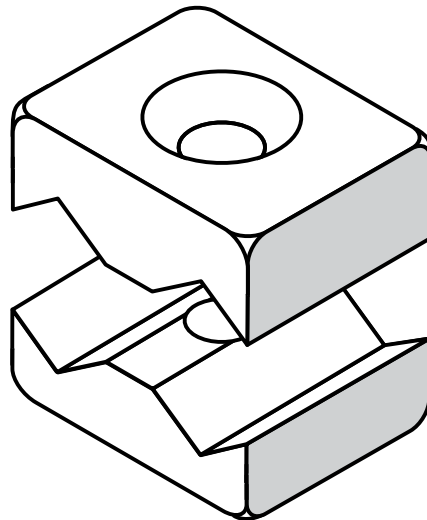


| Designation | Order number* |
|--|---------------|
| Plastic clamp for pipe Ø 6 mm | N27858 |
| Plastic clamp for pipe Ø 8 mm | N17270 |
| Plastic clamp for pipe Ø 10 mm | N17271 |
| Plastic clamp for pipe Ø 12 mm | N17272 |
| Plastic clamp for pipe Ø 15 mm | N15075 |
| Plastic clamp for pipe Ø 16 mm | N17577 |
| Plastic clamp for pipe Ø 18 mm | N17273 |
| Plastic clamp for pipe Ø 20 mm | N17274 |
| Plastic clamp for pipe Ø 22 mm | N17275 |
| Plastic clamp for pipe Ø 28 mm | N23679 |
| Mounting rail / C-rail | N23614 |
| Rail nut (M6) | N23613 |
| Screw M6 x 30 mm for N17269/N17270/N17271/N17272 | N19536 |
| Screw M6 x 35 mm for N15075/N17577/N17273 | N19537 |
| Screw M6 x 40 mm for N17274/N17275 | N19538 |
| Screw M6 x 45 mm for N23679 | N19539 |

* You require two clamps in each case

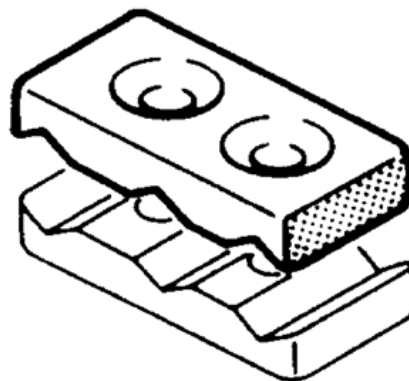
ALUMINIUM CLAMPS

For attaching 2 pipes:



| Designation | Order number* |
|-------------------------|---------------|
| Pipe external Ø 6-10 mm | 13967 |

For attaching 3 pipes:

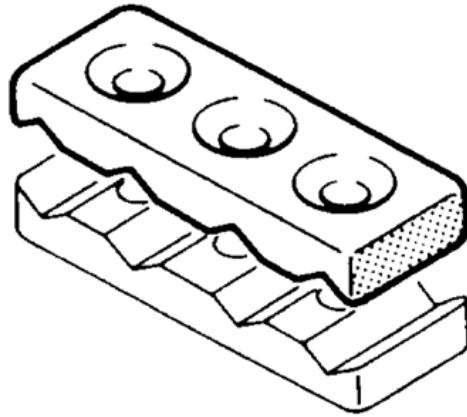


| Designation | Order number* |
|---------------------------|---------------|
| Pipe external Ø 6 - 10 mm | 55579 |

* You require two clamps in each case

ALUMINIUM CLAMPS

For attaching 4 pipes:



Designation

Pipe external Ø 6 - 10 mm

Order number*

55589

Dowel for wall fastening:

Designation

Dowel Ø 6, L 30

Dowel Ø 8, L 40

Dowel Ø 10, L 50

Dowel Ø 12, L 60

Dowel Ø 14, L 75

Order number

N24430

N24654

N3766

N24339

N17056

HOSES

ATTENTION: MAXIMUM OPERATING PRESSURE

Hoses are available for various pressure ranges, and also with different connectors.

Please note that the maximum permitted operating pressure depends on the individual part with the lowest pressure range.

Please comply with the specified application data!

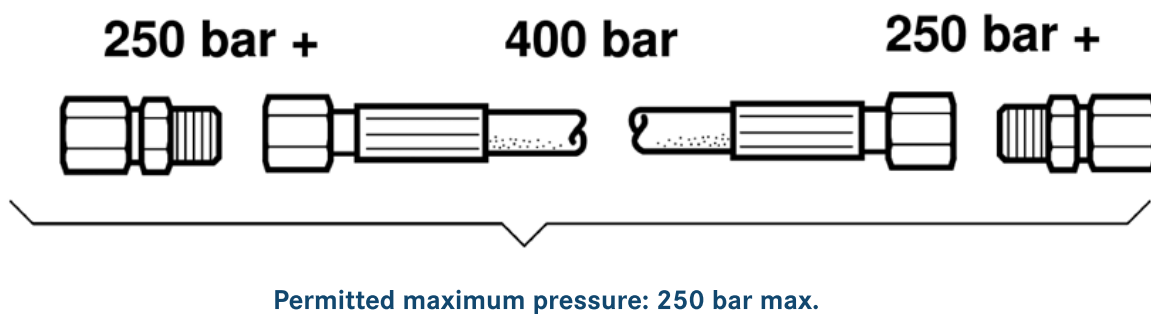
Temperature range: -10 °C / 14 °F to +50 °C / 122 °F.

Ambient temperature: +60 °C / 140 °F up to +80 °C / 176 °F permitted for short periods.

Flow speed: max. 10 m/s. For guidance values, see the tables section.

ATTENTION

Constant pressure and continuous load cycles in the hoses reduce the service life considerably. This application cannot be recommended. Please note that the application and test regulations are subject to the various regulations in the country where the hoses are used



Permitted maximum pressure: 250 bar max.

HOSE BREAK PROTECTION

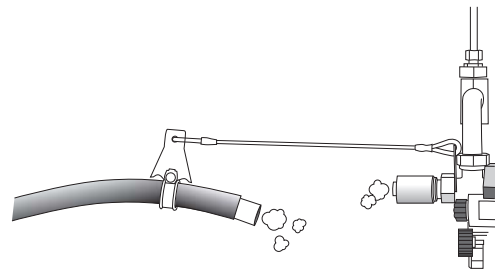
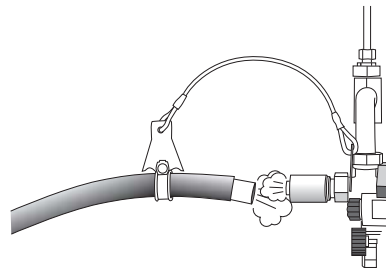
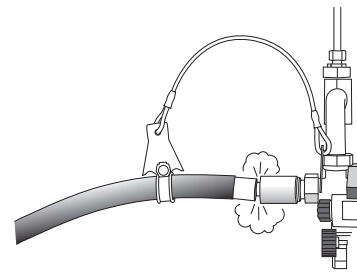
Filling hoses are often exposed to harsh conditions which can significantly increase their durability, such as: Excessively high or low temperatures, moisture, salty air, contamination of all kinds (e.g.: substances containing oil or solvents)

Incorrect or inadvertent handling such as: kinking, stretching, incorrect handling of the screwed fittings. Incorrect handling of breathing air cylinders. (e.g.: by allowing unsecured cylinders to fall over)

Everyone must be aware of the consequences of such a hose break. The sudden emergence of air and the whipping movements of the hose can cause very severe injuries! Danger of fatal injury!

Our robust hose break protection can be fitted in a matter of moments and offers additional safety. The 5 mm thick steel cable makes it flexible, and allows it to be attached to the existing hose easily. For protection and better securing, the hose clamp is additionally provided with a protective rubber pad.

The system has been optimised for our current UNIMAM filling hoses, but is also suitable for other hose types with the same diameters.



TECHNICAL DATA

- › **Length of wire rope:** 300 mm
- › **Eye diameter:** 12 mm
- › **For hose diameters from:** 10-13 mm
- › **Spanner size for mounting the clamp:** 10 mm

SCOPE OF DELIVERY FOR PROTECTING ONE HOSE

Two wire ropes with mounting accessories.
Order number: N39197

| Prefabricated Full protection hose | Part no. |
|---------------------------------------|-----------|
| EXISTING HOSE WILL BE REPLACED | |
| LENGTH: 1.00 METER | N2817-S07 |
| LENGTH: 1.50 METER | N3351-S02 |



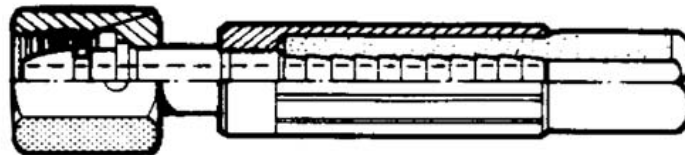
FILLING HOSES

BAUER Kompressoren high-pressure connecting hoses are suitable for breathing air, flexible, have a hose protector and handle on the pressure gauge side, as well as being equipped with fittings made of stainless steel. All hoses and fittings are 100% pressure-tested, are subjected to a 20,000 cycle test and are certified accordingly. BAUER Kompressoren filling hoses have a very high permitted temperature range. Optionally available with pressure test certificate 10204-3.1B.

TECHNICAL DATA

- › **External diameter:** approx. 10 mm
- › **Exterior coating:** perforated
- › **Suitable for:** Air, helium, nitrogen, noble gases, Unimam hoses expressly suitable for breathing air
- › **Resistant to ambient influences:** salty air, seawater, sunshine and fuels such as petrol, diesel oil
- › **Material:** Fluoropolymer (FEP)
- › **Temperature:** -40 °C to +100 °C
- › **Length:** see table
- › **Colour:** black
- › **Permitted operating pressure:** 425 bar at 45 °C

M16x1.5



Unimam Anschluß

FILLING HOSES WITH UNIMAM CONNECTOR, SWIVELLING NON-PRESSURISED

| Length | Operating pressure | Connection thread | DN | Order number |
|-------------------|--------------------|-------------------|-------|--------------|
| mm | bar / max. | | mm | |
| 500 | 425 | M 16 x 1,5 | 5 | N4216 |
| 800 | 425 | M 16 x 1,5 | 5 | N41090 |
| 1,000 | 425 | M 16 x 1,5 | 5 | N2817 |
| 1,500 | 425 | M 16 x 1,5 | 5 | N3351 |
| 2,000 | 425 | M 16 x 1,5 | 5 | N2818 |
| 3,000 | 425 | M 16 x 1,5 | 5 | N2819 |
| 5,000 | 425 | M 16 x 1,5 | 5 | N18397 |
| 6,000 | 425 | M 16 x 1,5 | 5 | N3657 |
| 9,000 | 425 | M 16 x 1,5 | 5 | N20724 |
| 10,000 | 425 | M 16 x 1,5 | 5 | N24614 |
| 12,000 | 425 | M 16 x 1,5 | 5 | N21707 |
| 15,000 | 425 | M 16 x 1,5 | 5 | N22730 |
| 20,000 | 425 | M 16 x 1,5 | 5 | N23084 |
| 25,000 | 425 | M 16 x 1,5 | 5 | N23146 |
| 30,000 | 425 | M 16 x 1,5 | 5 | N23147 |
| 50,000 | 425 | M 16 x 1,5 | 5 | N23396 |
| O-ring for UNIMAM | | | 6L-6S | N20755 |
| O-ring for UNIMAM | | | 8L-8S | N20756 |
| O-ring for UNIMAM | M 16 x 1,5 | | | N16632 |

HIGH-PRESSURE HOSES

| Length | Operating pressure | Connection thread | DN | Union nut | Order number |
|--------|--------------------|---------------------------|----|-----------|--------------|
| mm | bar / max. | | mm | | |
| 320 | 315 | M 12 x 1.5 | 4 | 6L/6L | N20743 |
| 500 | 315 | M 12 x 1.5 | 4 | 6L/6L | N3253 |
| 800 | 315 | M 12 x 1.5 | 4 | 6L/6L | N20744 |
| 320 | 315 | M 14 x 1.5; M 12 x 1.5 | 4 | 6S/6L | N20745 |
| 500 | 315 | M 14 x 1.5; M 12 x 1.5 | 4 | 6S/6L | N18319 |
| 800 | 315 | M 14 x 1.5; M 12 x 1.5 | 4 | 6S/6L | N18321 |
| 630 | 425 | M 16 x 1.5 | 5 | | N30443 |
| 320 | 450 | M 14 x 1.5 | 4 | 6S/6S | N18323 |
| 500 | 450 | M 14 x 1.5 | 4 | 6S/6S | N18320 |
| 800 | 450 | M 14 x 1.5 | 4 | 6S/6S | N18322 |
| 100 | 450 | M 14 x 1.5 | 4 | 6S/6S | N4822 |
| 500 | 450 | M 16 x 1.5 | 6 | 8S/8S | N3864 |
| 500 | | | 6 | 8L/8L | N19347 |

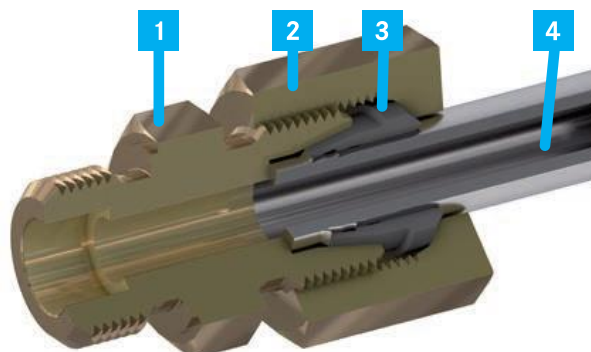
Explanation: L = light series, S = heavy series

NOTES



CUTTING RING SCREWED FITTING

- 1 Screwed fitting
- 2 Union nut
- 3 Cutting ring
- 4 Pipe



THE APPLICATION RANGE FOR THE CUTTING RING SCREWED FITTINGS THAT WE USE:

- › **Pipe diameter:** from 6 to 42 mm
- › **Pipe material:** steel, aluminium, stainless steel
- › **Pressure range:** 0 to 630 bar
- › **Medium:** Air, gases, oils, suitable liquids
- › **DIN:** always correspond to the latest regulations

QUALITY FEATURES

We exclusively use screwed fittings from leading manufacturers. Screwed fittings, nuts and cutting rings are supplied as standard in a steel version with phosphate coating, to protect against corrosion. Stainless steel version at extra cost. Please specify in your order!

INSTALLATION

Saw off the pipe at right angles, then slightly deburr the cut end and clean it. Push the union nut and cutting ring onto the pipe, insert into the cone of the screwed fitting, push up against the pipe and then tighten the union nut. Check the cutting of the cut edge following installation.

IMPORTANT!

Some of the pressures can be in excess of 600 bar, so incorrect installation represents a risk of fatal injury! Please comply with the precise installation instructions in our workshop manual! This also contains additional helpful tips and information about compressor technology.

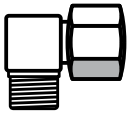
Order number

N26979

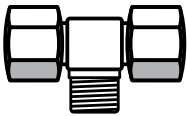
OVERVIEW OF THE MOST COMMON PIPE FITTINGS



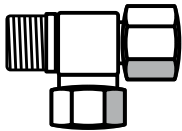
STRAIGHT MALE CONNECTOR (GES)



ANGLE MALE CONNECTOR (WES)



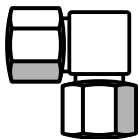
T-MALE CONNECTOR (TES)



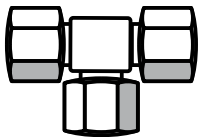
L-MALE CONNECTOR (LES)



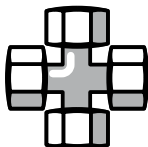
STRAIGHT PIPE CONNECTOR (GS)



ANGLE PIPE CONNECTOR (WS)



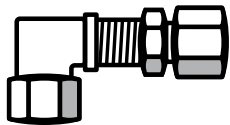
T-PIPE CONNECTOR (TS)



CROSS PIPE CONNECTOR (KV)



STRAIGHT BULKHEAD CONNECTOR (GSS)



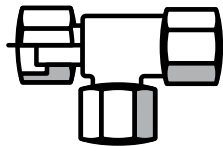
ANGLE BULKHEAD CONNECTOR (WSS)



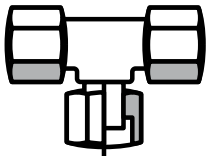
WELD-ON PIPE CONNECTOR (ASS)



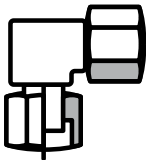
WELD-IN BULKHEAD CONNECTOR (ESS)



ADJUSTABLE L-PIPE CONNECTOR (ELS)



ADJUSTABLE T-PIPE CONNECTOR (ETS)



ADJUSTABLE ANGLE PIPE CONNECTOR (EWS)

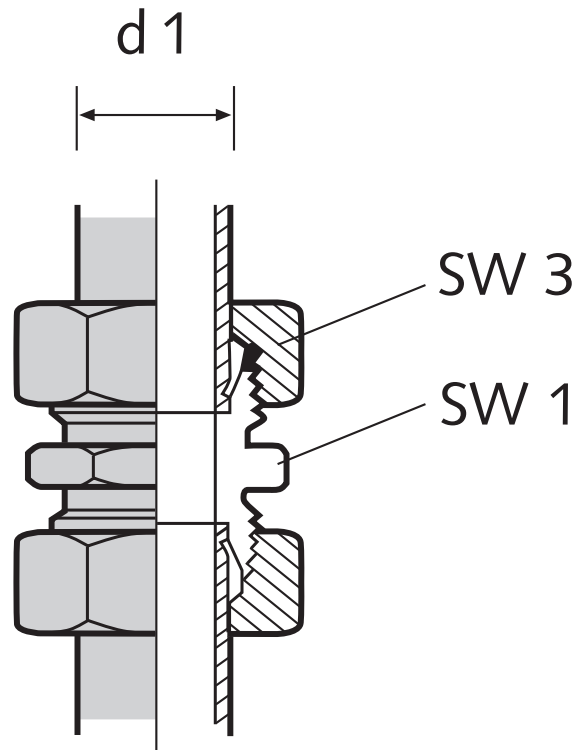


ADJUSTABLE STRAIGHT PIPE CONNECTOR (EGES)



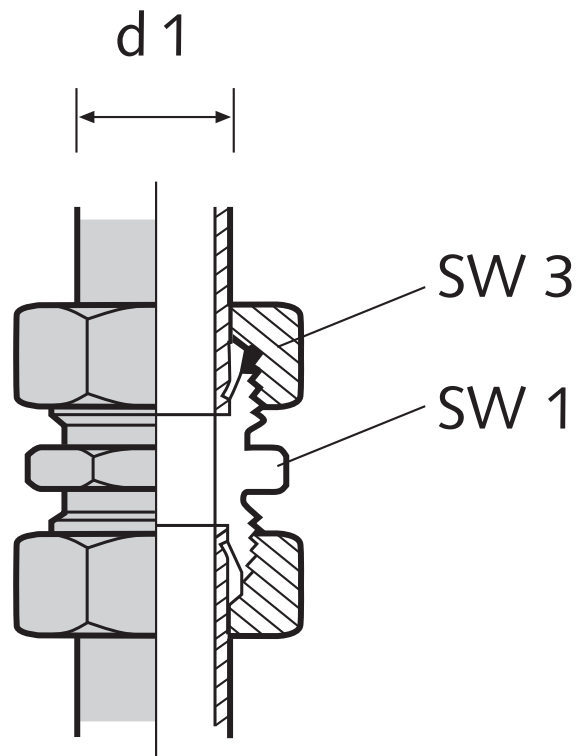
REDUCTION PIPE CONNECTOR (RED)

STRAIGHT PIPE CONNECTORS (GS) NORMAL VERSION



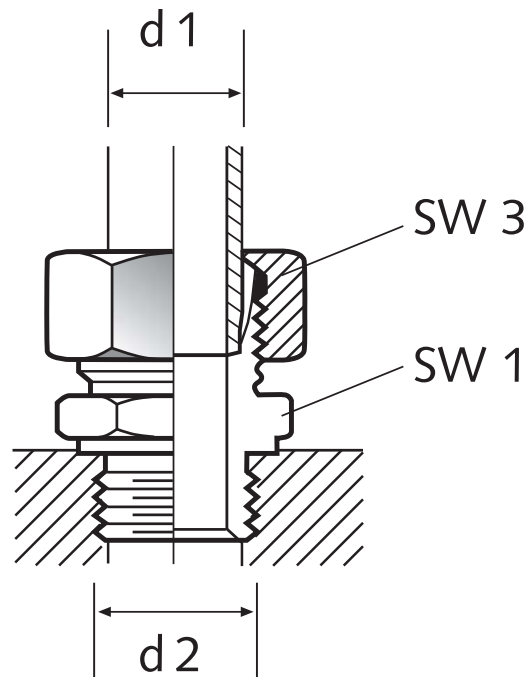
| PN | Pipe external Ø d 1 | SW 1 | SW 3 | Order number |
|-----|------------------------|------|------|--------------|
| bar | mm | mm | mm | |
| 100 | 28 | 41 | 41 | N22487 |
| 160 | 18 | 27 | 32 | N20312 |
| 160 | 22 | 32 | 36 | N20313 |
| 250 | 6 | 12 | 14 | N20157 |
| 250 | 8 | 14 | 17 | N20379 |
| 250 | 10 | 17 | 19 | N20309 |
| 250 | 12 | 19 | 22 | N20310 |
| 250 | 15 | 24 | 27 | N20311 |
| 400 | 16 | 27 | 30 | N20347 |
| 400 | 20 | 32 | 36 | N20348 |
| 630 | 6 | 14 | 17 | N20168 |
| 630 | 8 | 17 | 19 | N20208 |
| 630 | 10 | 19 | 22 | N20190 |
| 630 | 12 | 22 | 24 | N20101 |

STRAIGHT PIPE CONNECTORS (GS) STAINLESS STEEL VERSION



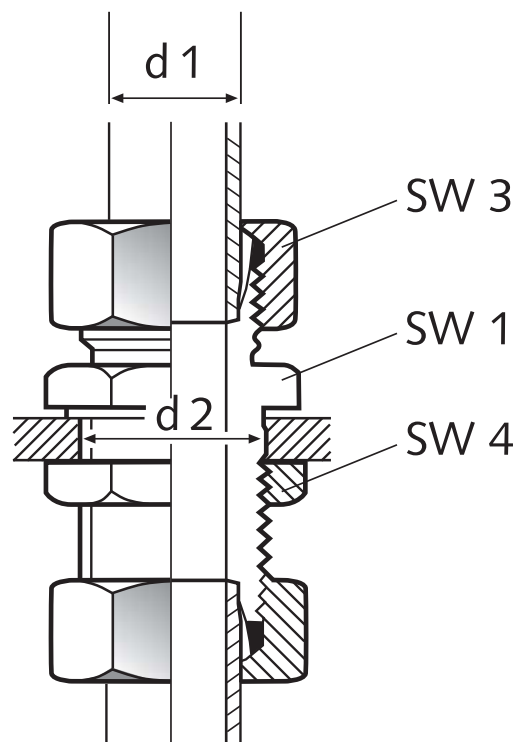
| PN | Pipe external Ø d1 | SW 1 | SW 3 | Order number |
|-----|-----------------------|------|------|--------------|
| bar | mm | mm | mm | |
| 40 | 20 | 32 | 36 | N24424 |
| 100 | 28 | 41 | 41 | N23640 |
| 160 | 18 | 27 | 32 | N20433 |
| 160 | 22 | 32 | 36 | N20426 |
| 250 | 6 | 12 | 14 | N20442 |
| 250 | 10 | 17 | 19 | N20584 |
| 250 | 12 | 19 | 22 | N20140 |
| 250 | 15 | 24 | 27 | N20436 |
| 630 | 6 | 14 | 17 | N20499 |
| 630 | 8 | 17 | 19 | N20585 |
| 630 | 10 | 19 | 22 | N23394 |
| 630 | 12 | 22 | 24 | N23387 |

STRAIGHT MALE CONNECTORS (GES)



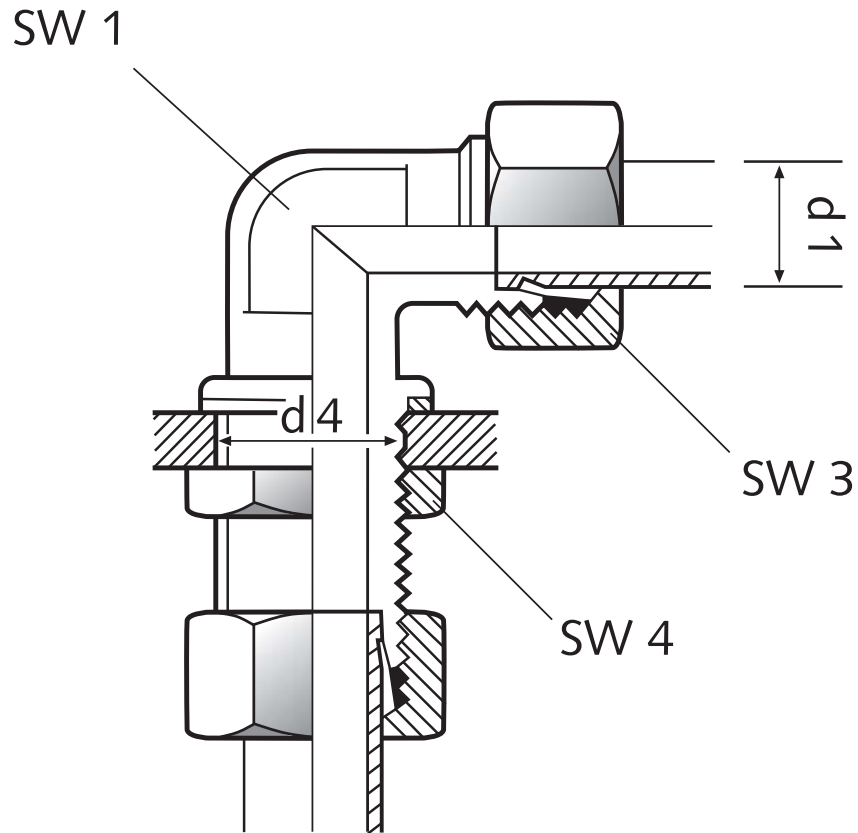
| PN | Pipe external Ø d1 | d2 | SW1 | SW3 | Order number for screwed fitting with integrated soft seal | Order number for screwed fitting without seal |
|-----|-----------------------|-----|-----|-----|--|---|
| bar | mm | | mm | mm | | |
| 100 | 28 | G 1 | 41 | 41 | N20030 | N20308 |
| 160 | 18 | G ½ | 27 | 32 | N20075 | N20013 |
| 160 | 22 | G ¾ | 32 | 36 | N20098 | N20230 |
| 250 | 6 | G ⅙ | 19 | 14 | N20237 | N20002 |
| 250 | 8 | G ¼ | 19 | 17 | N20065 | N20014 |
| 250 | 10 | G ¼ | 19 | 19 | N20017 | N20188 |
| 250 | 12 | G ⅜ | 22 | 22 | N20043 | N20009 |
| 250 | 15 | G ½ | 27 | 27 | N20018 | N20231 |
| 400 | 16 | G ½ | 27 | 30 | N20224 | N18244 |
| 400 | 20 | G ¾ | 32 | 36 | N20032 | N20351 |
| 630 | 6 | G ¼ | 19 | 19 | N20211 | N20195 |
| 630 | 8 | G ¼ | 19 | 19 | N20287 | N20209 |
| 630 | 8 | G ⅜ | 19 | 19 | N20404 | N20551 |
| 630 | 10 | G ⅜ | 22 | 22 | N20228 | N20229 |
| 630 | 12 | G ⅜ | 22 | 24 | N20721 | N20011 |

STRAIGHT BULKHEAD CONNECTORS (GSV)



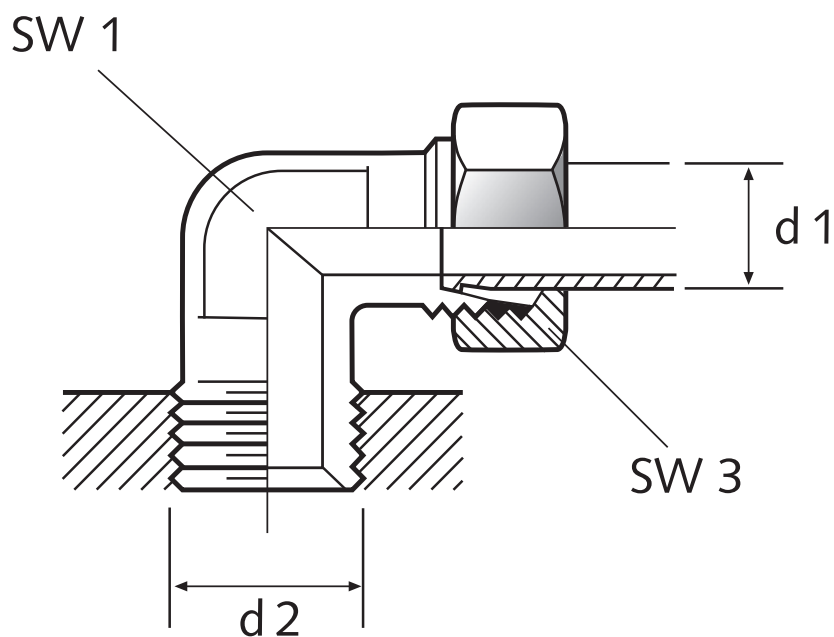
| PN | Pipe external $\varnothing d_1$ | d4 | SW1 | SW3 | SW4 | Order number |
|-----|------------------------------------|----|-----|-----|-----|--------------|
| bar | mm | mm | mm | mm | mm | |
| 160 | 18 | 28 | 32 | 32 | 36 | N15537 |
| 160 | 22 | 32 | 36 | 36 | 41 | N4582 |
| 250 | 6 | 14 | 17 | 14 | 17 | N3995 |
| 250 | 8 | 16 | 19 | 17 | 19 | N3172 |
| 250 | 10 | 18 | 22 | 19 | 22 | N4659 |
| 250 | 12 | 20 | 24 | 22 | 24 | N4338 |
| 250 | 15 | 24 | 27 | 27 | 30 | N4619 |
| 400 | 16 | 26 | 32 | 30 | 32 | N15505 |
| 400 | 20 | 32 | 41 | 36 | 41 | N15854 |
| 630 | 6 | 16 | 19 | 17 | 19 | N3083 |
| 630 | 8 | 18 | 22 | 19 | 22 | N3300 |
| 630 | 10 | 20 | 24 | 22 | 24 | N4168 |
| 630 | 12 | 22 | 27 | 24 | 27 | N4683 |

ANGLE BULKHEAD CONNECTORS (WSV)



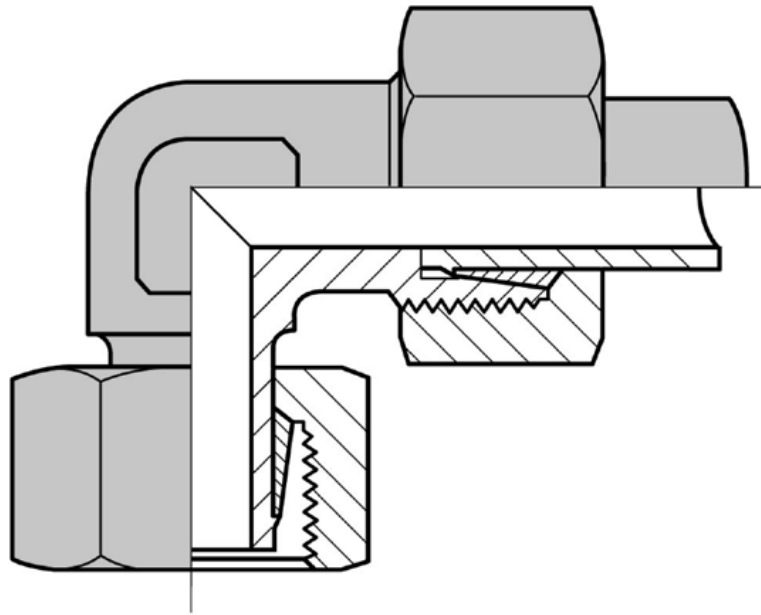
| PN | Pipe external Ø d1 | d4 | SW1 | SW3 | SW4 | Order number |
|-----|-----------------------|----|-----|-----|-----|--------------|
| bar | mm | mm | mm | mm | mm | |
| 160 | 18 | 28 | 24 | 32 | 36 | N18147 |
| 160 | 22 | 32 | 27 | 36 | 41 | N18155 |
| 250 | 8 | 16 | 12 | 17 | 19 | N2787 |
| 250 | 10 | 18 | 14 | 19 | 22 | N15202 |
| 250 | 12 | 20 | 17 | 22 | 24 | N16271 |
| 250 | 15 | 24 | 19 | 27 | 30 | N3171 |
| 400 | 16 | 26 | 24 | 30 | 32 | N18148 |
| 400 | 20 | 32 | 27 | 36 | 41 | N4932 |
| 630 | 6 | 16 | 12 | 17 | 19 | N4477 |
| 630 | 8 | 18 | 14 | 19 | 22 | N4322 |
| 630 | 10 | 20 | 17 | 22 | 24 | N4658 |
| 630 | 12 | 22 | 17 | 24 | 27 | N4684 |

ANGLE MALE CONNECTORS (WEV)



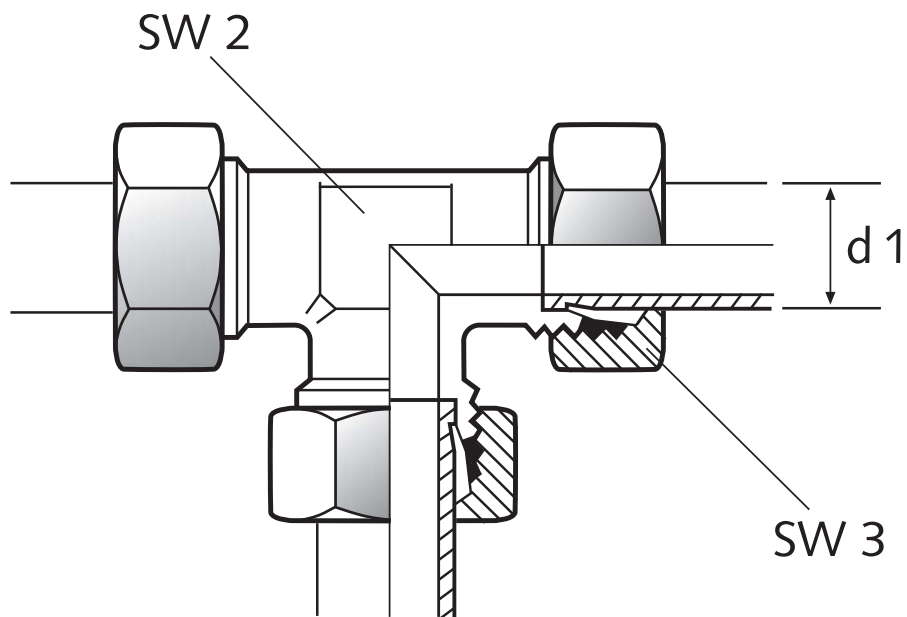
| PN | Pipe external $\varnothing d_1$ | d4 | SW1 | SW3 | Order number |
|-----|------------------------------------|-------|-----|-----|--------------|
| bar | mm | | mm | mm | |
| 160 | 18 | G 1/2 | 24 | 32 | N 661 |
| 160 | 22 | G 3/4 | 27 | 36 | N 7403 |
| 250 | 6 | G 1/8 | 12 | 14 | N 1057 |
| 250 | 8 | G 1/4 | 14 | 17 | N 1536 |
| 250 | 10 | G 1/4 | 17 | 19 | N 1065 |
| 250 | 12 | G 3/8 | 19 | 22 | N 2917 |
| 250 | 15 | G 1/2 | 19 | 27 | N 1856 |
| 400 | 16 | G 1/2 | 24 | 30 | N 8011 |
| 400 | 20 | G 3/8 | 27 | 36 | N 8026 |
| 630 | 6 | G 1/4 | 14 | 17 | N 1048 |
| 630 | 8 | G 1/4 | 17 | 19 | N 3044 |
| 630 | 10 | G 3/8 | 19 | 22 | N 7727 |
| 630 | 12 | G 3/8 | 22 | 24 | N 4681 |

ADJUSTABLE ANGLE SCREW CONNECTOR (EWS)



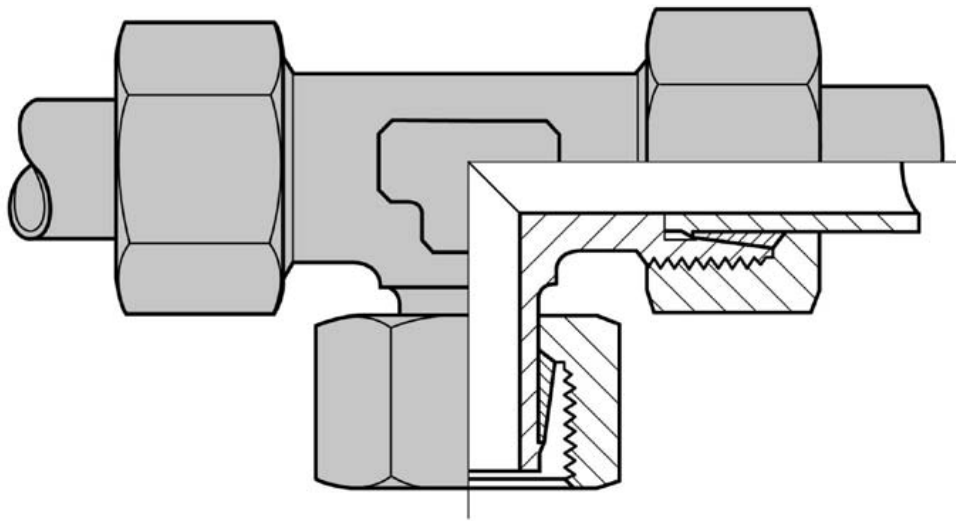
| PN | Pipe external Ø d1 | Series | Order number |
|-----|-----------------------|--------|--------------|
| bar | mm | | |
| 250 | 6 | L | N20186 |
| 250 | 8 | L | N20152 |
| 250 | 10 | L | N20160 |
| 250 | 12 | L | N20200 |
| 250 | 15 | L | N20257 |
| 400 | 16 | S | N20225 |
| 400 | 20 | S | N20031 |
| 630 | 6 | S | N20187 |
| 630 | 8 | S | 83220 |
| 630 | 10 | S | N20154 |
| 630 | 12 | S | N20282 |

T-CONNECTORS (TV)



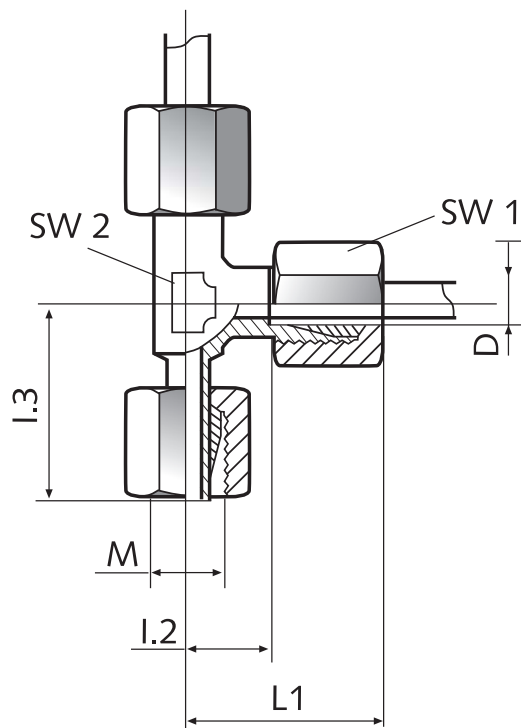
| PN | Pipe external $\varnothing d_1$ | SW2 | SW3 | Order number |
|-----|------------------------------------|-----|-----|--------------|
| bar | mm | mm | mm | |
| 100 | 28 | 36 | 41 | N 7513 |
| 160 | 18 | 24 | 32 | N7428 |
| 160 | 22 | 27 | 36 | N7429 |
| 250 | 6 | 12 | 14 | N3134 |
| 250 | 8 | 14 | 17 | N3025 |
| 250 | 10 | 17 | 19 | N3010 |
| 250 | 12 | 19 | 22 | N7426 |
| 250 | 15 | 19 | 27 | N7427 |
| 400 | 16 | 24 | 30 | N 8022 |
| 400 | 20 | 27 | 36 | N18149 |
| 630 | 6 | 14 | 17 | N3968 |
| 630 | 8 | 17 | 19 | N3710 |
| 630 | 10 | 19 | 22 | N4922 |
| 630 | 12 | 22 | 24 | N17924 |

ADJUSTABLE T-CONNECTORS (ETS)



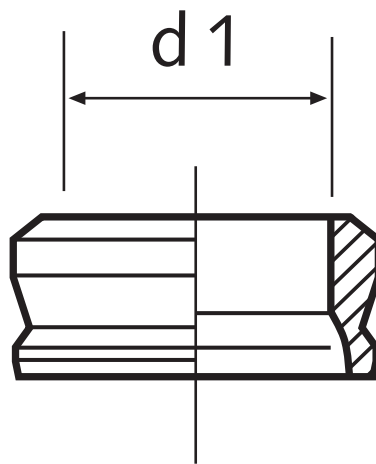
| PN | Pipe external Ø d1 | Series | Order number |
|-----|-----------------------|--------|--------------|
| bar | mm | | |
| 250 | 6 | L | N20238 |
| 250 | 8 | L | N20155 |
| 250 | 10 | L | N20068 |
| 250 | 12 | L | N20051 |
| 250 | 15 | L | N20029 |
| 400 | 16 | S | N20419 |
| 400 | 20 | S | N20259 |
| 630 | 6 | S | N20019 |
| 630 | 8 | S | N20206 |
| 630 | 10 | S | N20064 |
| 630 | 12 | S | N20057 |

ADJUSTABLE L-CONNECTORS (ELS)



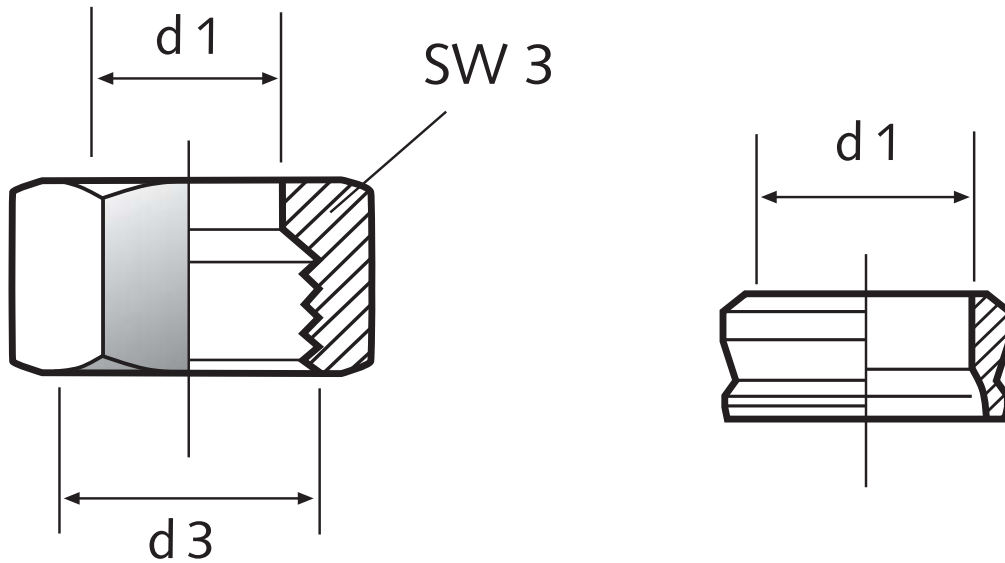
| PN | Pipe external Ø d1 | Series | Order number |
|-----|-----------------------|--------|--------------|
| bar | mm | | |
| 250 | 6 | L | N20167 |
| 250 | 8 | L | N20219 |
| 250 | 10 | L | N20213 |
| 250 | 12 | L | N20289 |
| 250 | 15 | L | N20052 |
| 400 | 16 | S | N20422 |
| 400 | 20 | S | N23503 |
| 630 | 6 | S | N20185 |
| 630 | 8 | S | N20175 |
| 630 | 10 | S | N20276 |
| 630 | 12 | S | N20055 |

CUTTING RINGS



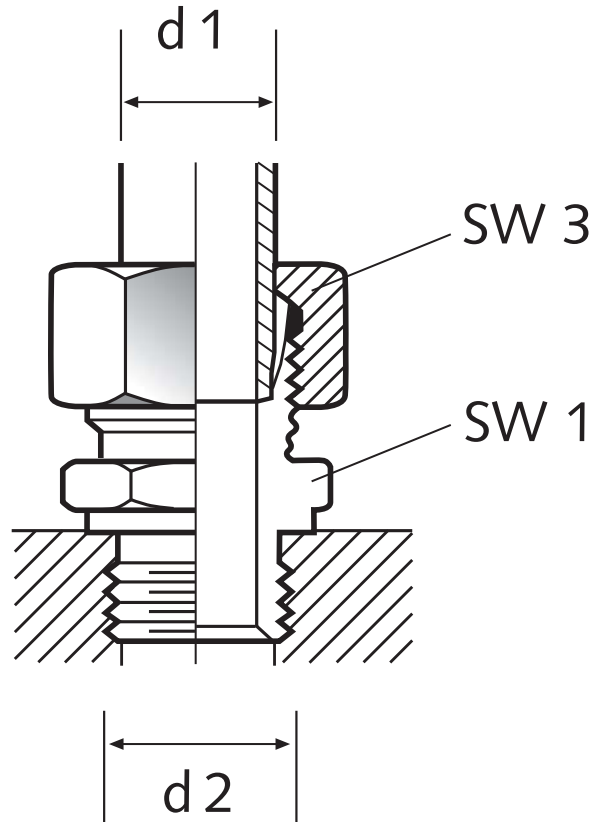
| PN | Pipe external $\varnothing d1$ | Series | Order number |
|-----|-----------------------------------|--------|--------------|
| bar | mm | | |
| 100 | 28 | L | N7445 |
| 160 | 18 | L | N7443 |
| 160 | 22 | L | N7444 |
| 250 | 6 | L | N3663 |
| 250 | 8 | L | N3609 |
| 250 | 10 | L | N4011 |
| 250 | 12 | L | N7441 |
| 250 | 15 | L | N3614 |
| 400 | 16 | S | N4009 |
| 400 | 20 | S | N18154 |
| 630 | 6 | S | N3663 |
| 630 | 8 | S | N3609 |
| 630 | 10 | S | N4011 |
| 630 | 12 | S | N7441 |

UNION NUTS



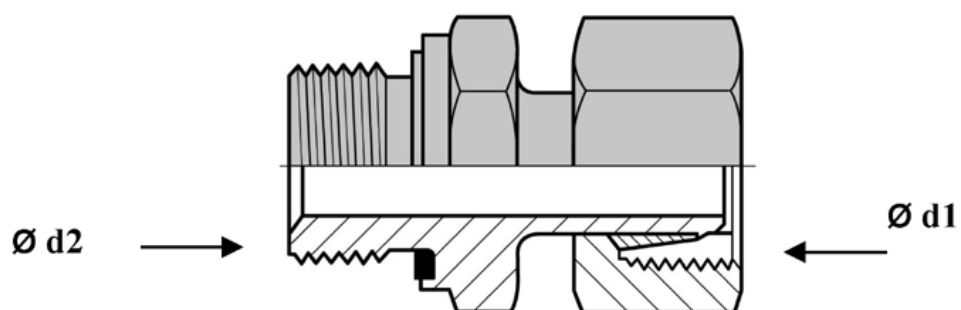
| PN | Pipe external Ø d1 | d3 | SW3 | Series | Order number |
|-----|-----------------------|------------|-----|--------|--------------|
| bar | mm | | mm | | |
| 100 | 28 | M 36 x 2 | 41 | L | N7437 |
| 160 | 18 | M 26 x 1.5 | 32 | L | N7435 |
| 160 | 22 | M 30 x 2 | 36 | L | N7436 |
| 250 | 6 | M 12 x 1.5 | 14 | L | N7430 |
| 250 | 8 | M 14 x 1.5 | 17 | L | N1049 |
| 250 | 10 | M 16 x 1.5 | 19 | L | N7432 |
| 250 | 12 | M 18 x 1.5 | 22 | L | N7433 |
| 250 | 15 | M 22 x 1.5 | 27 | L | N3613 |
| 400 | 16 | M 24 x 1.5 | 30 | S | N4008 |
| 400 | 20 | M 30 x 2 | 36 | S | N18153 |
| 630 | 6 | M 14 x 1.5 | 17 | S | N3610 |
| 630 | 8 | M 16 x 1.5 | 19 | S | N3608 |
| 630 | 10 | M 18 x 1.5 | 22 | S | N4010 |
| 630 | 12 | M 20 x 1.5 | 24 | S | N15599 |

STRAIGHT MALE CONNECTORS (GEV)



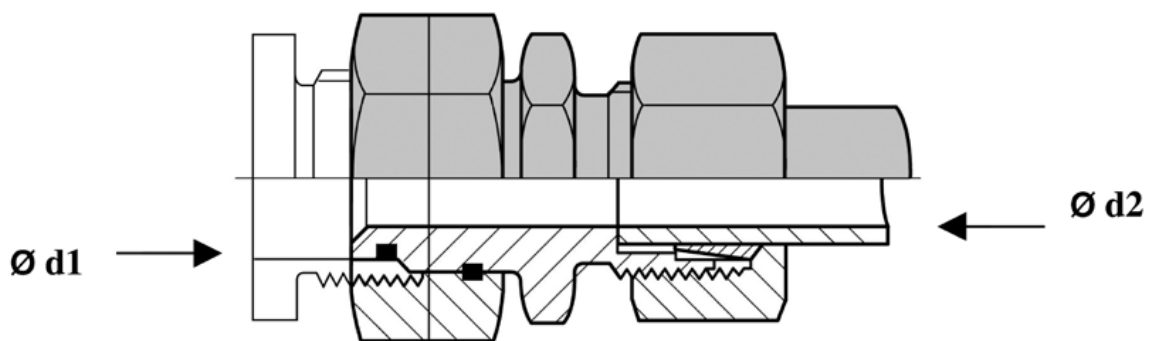
| PN | Pipe external Ø d1 | d2 | SW1 | SW3 | Order number |
|-----|-----------------------|-------|-----|-----|--------------|
| bar | mm | | mm | mm | |
| 250 | 6 | G 1/8 | 14 | 14 | N 1051 |
| 250 | 8 | G 1/4 | 14 | 17 | N1063 |
| 250 | 10 | G 1/4 | 17 | 19 | N2166 |
| 250 | 12 | G 3/8 | 19 | 22 | N1443 |
| 250 | 15 | G 1/2 | 24 | 27 | N1509 |
| 630 | 6 | G 1/4 | 19 | 17 | N 902 |
| 630 | 8 | G 1/4 | 19 | 19 | N2466 |
| 630 | 10 | G 3/8 | 22 | 22 | N3983 |
| 630 | 12 | G 1/2 | 27 | 24 | N4022 |

STRAIGHT MALE CONNECTORS (GES)



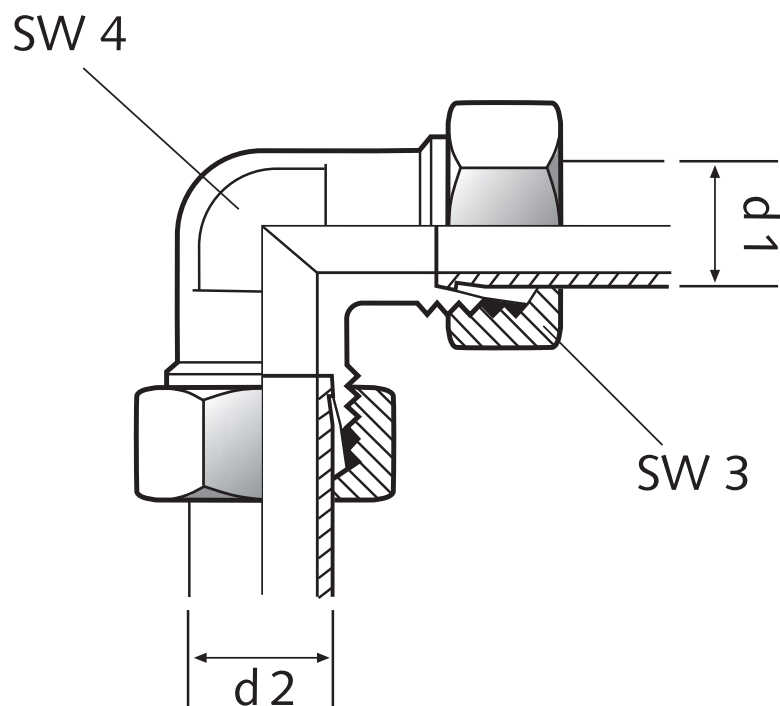
| PN | Pipe external Ø d1 | Ø d1 | Series | Order number |
|-----|-----------------------|------|--------|--------------|
| bar | mm | mm | | |
| 250 | 8 | G ¼ | L | N17233 |
| 250 | 10 | G ¼ | L | N15128 |
| 250 | 12 | G ⅜ | L | N17252 |
| 400 | 16 | G ½ | S | N4977 |
| 400 | 20 | G ¾ | S | N4318 |
| 630 | 6 | G ¼ | S | N4498 |
| 630 | 8 | G ¼ | S | N15600 |
| 630 | 10 | G ⅜ | S | N15501 |
| 630 | 12 | G ⅜ | S | N15922 |

REDUCTION ADAPTERS (RED)



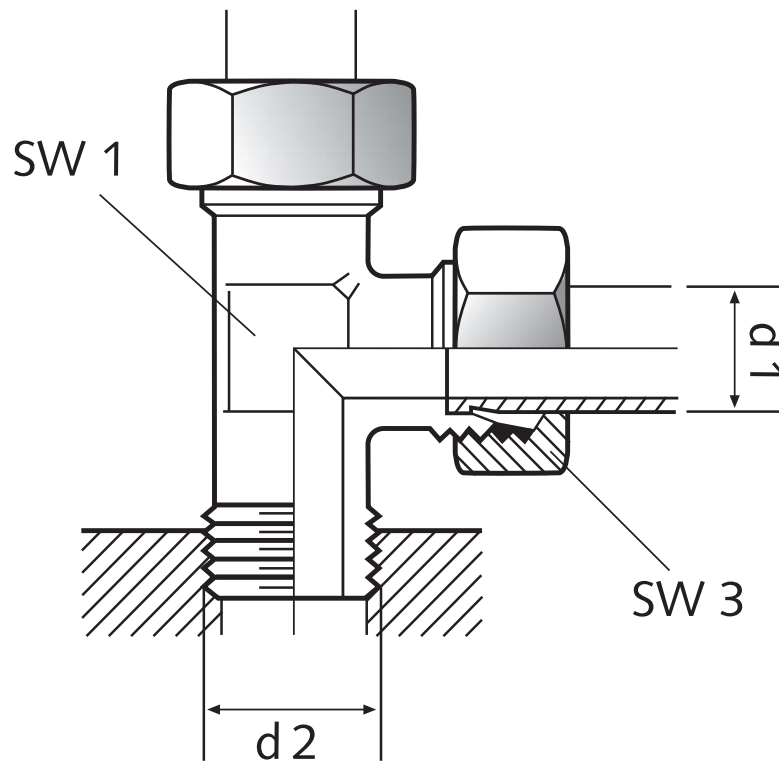
| PN | Pipe external Ø d1 | Pipe external Ø d2 | Series | Order number |
|-----|-----------------------|-----------------------|--------|--------------|
| bar | mm | mm | | |
| 250 | 8 | 6 | L | N20234 |
| 250 | 10 | 8 | L | N20067 |
| 250 | 12 | 8 | L | N20112 |
| 250 | 12 | 10 | L | N20396 |
| 400 | 20 | 16 | S | N23118 |
| 400 | 16 | 12 | S | N20071 |
| 630 | 8 | 6 | S | N20184 |
| 630 | 10 | 8 | S | N20069 |
| 630 | 12 | 8 | S | N20286 |
| 630 | 12 | 10 | S | N20244 |

ANGLE SCREW CONNECTORS (WV)



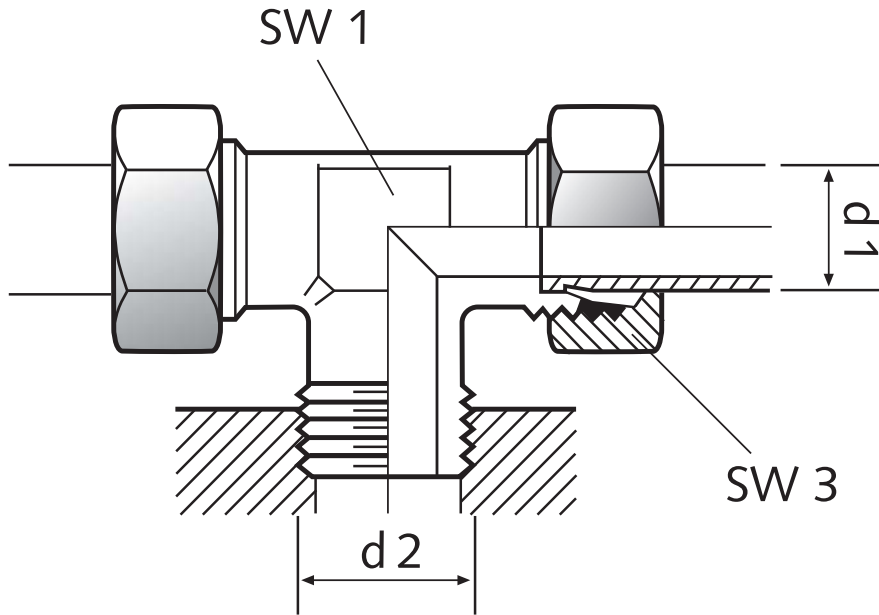
| PN | Pipe external $\varnothing d_1$ | SW4 | SW3 | Order number |
|-----|------------------------------------|-----|-----|--------------|
| bar | mm | mm | mm | |
| 160 | 18 | 24 | 32 | N17646 |
| 160 | 22 | 27 | 36 | N4843 |
| 250 | 6 | 12 | 14 | N7405 |
| 250 | 8 | 14 | 17 | N18643 |
| 250 | 10 | 17 | 19 | N18635 |
| 250 | 12 | 19 | 22 | N18150 |
| 250 | 15 | 19 | 27 | N 9227 |
| 400 | 16 | 24 | 30 | N15511 |
| 400 | 20 | 27 | 36 | N18152 |
| 630 | 6 | 14 | 17 | N3012 |
| 630 | 8 | 17 | 19 | N3946 |
| 630 | 10 | 19 | 22 | N 7728 |
| 630 | 12 | 22 | 24 | N18151 |

L-MALE CONNECTORS (LEV)



| PN | Pipe external $\varnothing d_1$ | d_2 | SW1 | SW3 | Order number |
|-----|------------------------------------|-------|-----|-----|--------------|
| bar | mm | | mm | mm | |
| 160 | 18 | G 1/2 | 24 | 32 | N7415 |
| 160 | 22 | G 3/4 | 27 | 36 | N15015 |
| 250 | 6 | G 1/8 | 12 | 14 | N7410 |
| 250 | 8 | G 1/4 | 14 | 17 | N2902 |
| 250 | 10 | G 1/4 | 17 | 19 | N7412 |
| 250 | 12 | G 3/8 | 19 | 22 | N7413 |
| 250 | 15 | G 1/2 | 19 | 27 | N7414 |
| 400 | 16 | G 1/2 | 24 | 30 | N4023 |
| 400 | 20 | G 3/4 | 27 | 36 | N18156 |
| 630 | 6 | G 1/4 | 14 | 17 | N2903 |
| 630 | 8 | G 1/4 | 17 | 19 | N3069 |
| 630 | 10 | G 3/8 | 19 | 22 | N3142 |
| 630 | 12 | G 3/8 | 22 | 24 | N3985 |

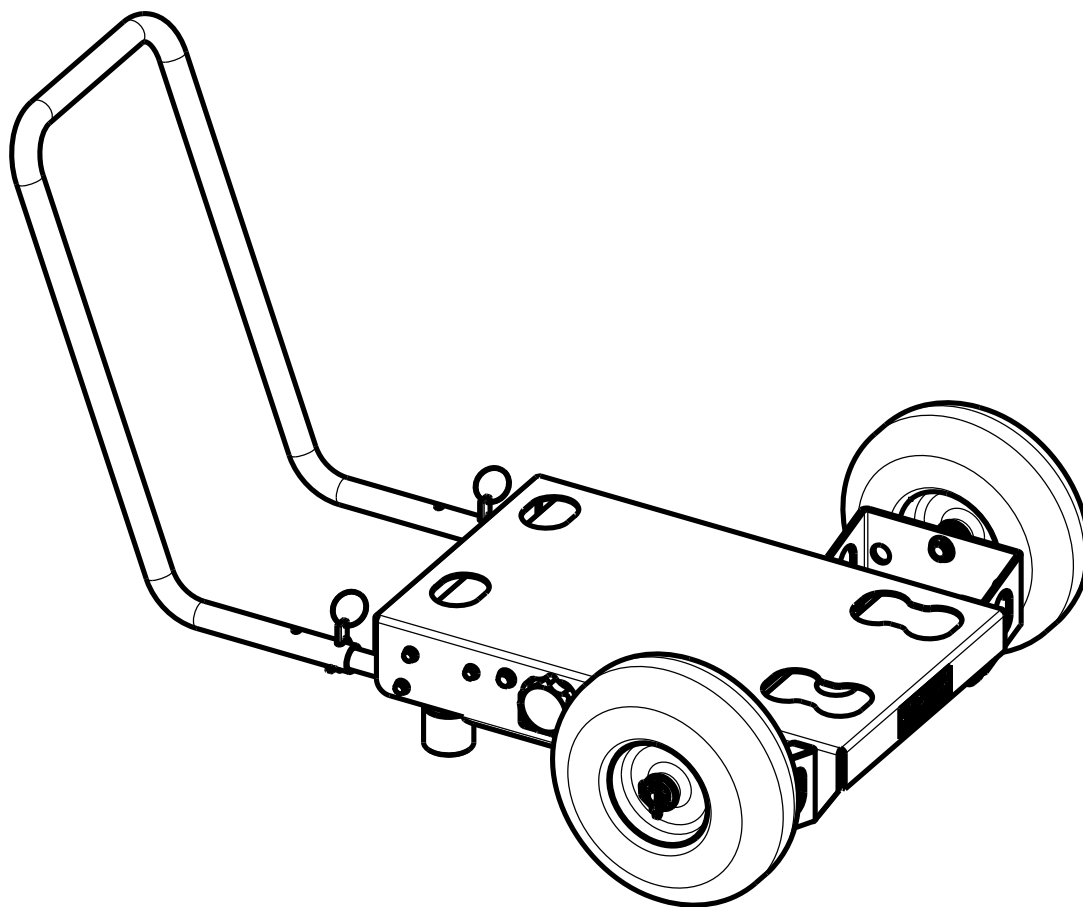
T-MALE CONNECTORS (TEV)



| PN | Pipe external Ø d1 | d2 | SW1 | SW3 | Order number |
|-----|-----------------------|-------|-----|-----|--------------|
| bar | mm | | mm | mm | |
| 160 | 18 | G 1/2 | 24 | 32 | N18564 |
| 160 | 22 | G 3/4 | 27 | 36 | N7422 |
| 250 | 6 | G 1/8 | 12 | 14 | N1106 |
| 250 | 8 | G 1/4 | 14 | 17 | N1062 |
| 250 | 10 | G 1/4 | 17 | 19 | N1064 |
| 250 | 12 | G 3/8 | 19 | 22 | N3580 |
| 250 | 15 | G 1/2 | 19 | 27 | N7420 |
| 400 | 16 | G 1/2 | 24 | 30 | N 8012 |
| 400 | 20 | G 3/4 | 27 | 36 | N18157 |
| 630 | 6 | G 1/4 | 14 | 17 | N2157 |
| 630 | 8 | G 1/4 | 17 | 19 | N3068 |
| 630 | 10 | G 3/8 | 19 | 22 | N3984 |
| 630 | 12 | G 3/8 | 22 | 24 | N17945 |

TROLLEY

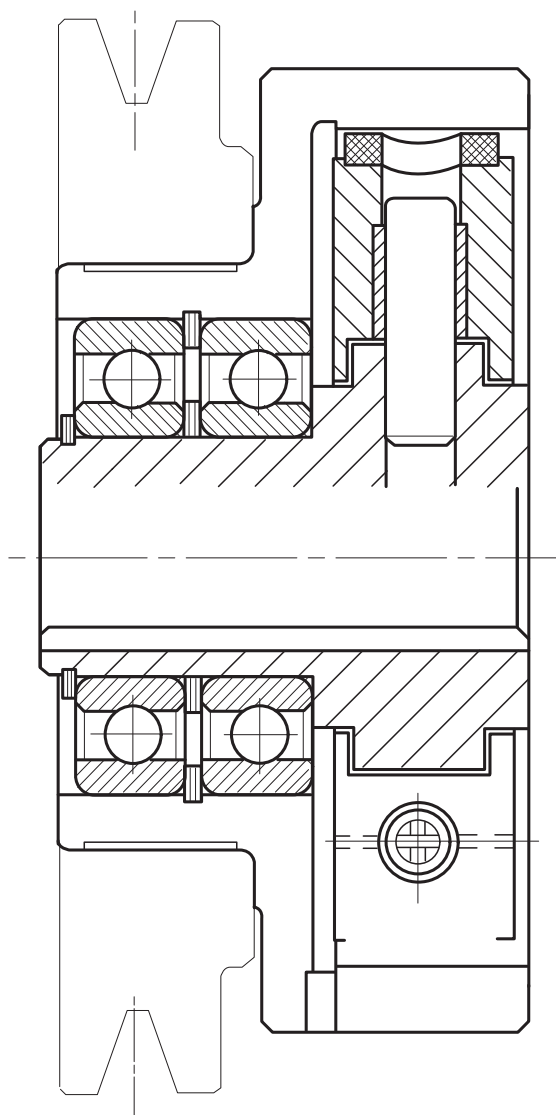
Our Junior II, Oceanus and PE100 compressors can be equipped with a trolley for easier transport.



| Designation | Order number |
|---------------------------|--------------|
| Junior II, Oceanus, PE100 | 168013 |

CENTRIFUGAL CLUTCH

To facilitate starting a compressor with low force and also at relatively low temperatures, centrifugal clutches are used. Available for the compressor types Junior and Oceanus. Only for systems with Honda engine.



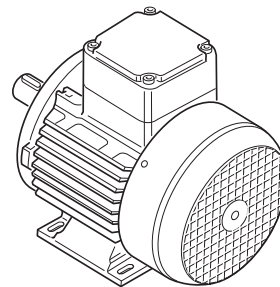
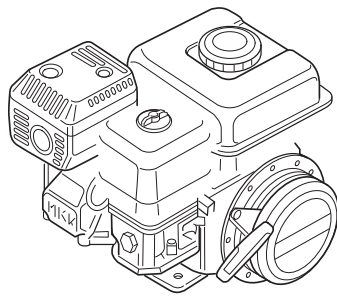
TECHNICAL DATA

- Maximum speed: 3,600 rpm
- Lock-in speed: 2,100 rpm
- Max. torque: 30 Nm
- Connector type: V-belt

| Designation | Order number |
|--------------------|--------------|
| Centrifugal clutch | N26326 |
| Installation kit | 79716 |

CONVERSION KITS JUNIOR

For changing the drive type of a compressor to petrol or electric drive.



| Designation | Order number |
|---|--------------|
| Conversion kit to Junior with petrol drive | 075794 |
| Scope of delivery | |
| Petrol engine 4 kW | N20703 |
| Motor accessories consisting of V-belt N16620, V-belt pulley 62114, intake telescope 062080, screws | 071622 |
| Conversion kit to Junior with electric drive 440 V / 50 Hz | 075793-V001 |
| Conversion kit to Junior with electric drive 440 V / 60 Hz | 075793-V002 |
| Scope of delivery | |
| Three-phase motor | N3388 |
| Motor accessories consisting of V-belt N16620, V-belt pulley N15001 or 56880, screws | 071263 |
| Optional and not included in the kit: | |
| Motor protection switch 6.0 to 10 A | N22525 |
| Connection cable up to 5 kW | 059187 |
| Undervoltage trip 440 V / 60 Hz | N24129 |
| Auxiliary switch | N18426 |
| Conversion kit to Junior with AC drive 230 V / 50 Hz | 075793-V003 |
| Conversion kit to Junior with AC drive 230 V / 60 Hz | 075793-V002 |
| Scope of delivery | |
| Electric motor, motor protection switch and connection cable with plug | N19108 |
| Motor accessories consisting of V-belt N16620, V-belt pulley N15001 or 56880, screws | 071263 |

If converting to petrol drive, the appropriate filter cartridge with CO converter is supplied. Please specify the existing filter system in your order. (e.g. P21 or P31)

CONVERSION KITS UTILUS

| Designation | Order number |
|--|--------------|
| Conversion kit to Utilus with petrol drive | 072749 |
| Scope of delivery | |
| Petrol engine 4 kW | N20703 |
| Motor accessories comprising V-belt N2585, V-belt pulley 14403, hinged motor plate, anti-vibration mount, screws | 064717 |
| Intake filter with intake hose | 014539 |
| Conversion kit to Utilus with electric drive 440 V / 50 Hz | 072747-V001 |
| Conversion kit to Utilus with electric drive 440 V / 60 Hz | 072747-V002 |
| Scope of delivery | |
| Three-phase motor 2.2 kW | N3388 |
| Motor accessories consisting of cover N2585, V-belt 14386 or 11832, screws | 014714 |
| Cover | 14446 |
| Optional and not included in the kit: | |
| Motor protection switch 6.0 to 10 A | N22525 |
| Connection cable up to 5 kW | 059187 |
| Undervoltage trip 440 V / 60 Hz | N24129 |
| Auxiliary switch | N18426 |
| Conversion kit to Utilus with AC drive 230 V / 50 Hz | 072748-V001 |
| Conversion kit to Utilus with AC drive 230 V / 60 Hz | 072748-V002 |
| Scope of delivery | |
| Electric motor, motor protection switch and connection cable with plug | N19108 |
| Motor accessories consisting of V-belt N2585, V-belt pulley 14386 or 11832, screws | 014714 |
| Cover | 14446 |

If converting to petrol drive, the appropriate filter cartridge with CO converter is supplied. Please specify the existing filter system in your order. (e.g. P21 or P31)

CONVERSION KITS CAPITANO

| Designation | Order number |
|---|--------------|
| Conversion kit to Capitano with petrol drive | 072751 |
| Scope of delivery | |
| Petrol engine 4 kW | N20703 |
| Motor accessories consisting of V-belt N3185, V-belt pulley 14300, hinged motor plate, anti-vibration mount, screws | 064718 |
| Intake filter with intake hose | 014539 |
| Conversion kit to Capitano with electric drive 440 V / 50 Hz | 072750-V001 |
| Conversion kit to Capitano with electric drive 440 V / 60 Hz | 072750-V002 |
| Scope of delivery | |
| Three-phase motor 3 kW | N2774 |
| Motor accessories consisting of V-belt N2585, V-belt pulley 14386 or 11832, screws | 014359 |
| Cover | 14446 |
| Optional and not included in the kit: | |
| Motor protection switch 6.0 to 10 A | N22525 |
| Connection cable up to 5 kW | 059187 |
| Undervoltage trip 440 V / 60 Hz | N24129 |
| Auxiliary switch | N18426 |

If converting to petrol drive, the appropriate filter cartridge with CO converter is supplied. Please specify the existing filter system in your order. (e.g. P21 or P31)

CONVERSION KITS JUNIOR II

| Designation | Order number |
|--|--------------|
| Conversion kit to Junior II with petrol drive | 79191-JII-B |
| Scope of delivery | |
| Petrol engine 4.2 kW | N30368 |
| Motor accessories consisting of V-belt N15426, V-belt pulley 62114, screws | 077236 |
| Intake telescope | 077323 |
| Conversion kit to Junior II with electric drive 440 V / 50-60 Hz | 79191-JII-E |
| Scope of delivery | |
| Three-phase motor 2.2 kW | N3388 |
| Motor accessories consisting of V-belt N15426, V-belt pulley 62114, screws | 077236 |
| Motor protection switch | 077956 |
| Connection cable | 077240 |
| Conversion kit to Junior II with AC drive 230 V / 50-60 Hz | 79191-JII-W |
| Scope of delivery | |
| Electric motor 230 V, motor protection switch and connection cable with plug | N19108 |
| Motor accessories consisting of V-belt N24960, V-belt pulley N15001 or 56880, screws | 077237 |
| Optional and not included in the kit: | |
| Motor 110 V / 50 Hz / 2.2 kW | N19111 |
| Motor 110 V / 60 Hz / 2.2 kW | N19112 |
| Motor 230 V / 60 Hz / 2.2 kW | N19110 |
| Auxiliary switch | N18426 |

If converting to petrol drive, the appropriate filter cartridge with CO converter is supplied.
Please specify the existing filter system in your order. (e.g. P21 or P31)

CONVERSION KITS UTILUS II

| Designation | Order number |
|---|--------------|
| Conversion kit to Utilus II with petrol drive | 79 191-UII-B |
| Scope of delivery | |
| Petrol engine 4 kW | N20703 |
| Motor accessories for carrying frame consisting of V-belt N2594, V-belt pulley N25707, hinged motor plate, screws | 78862 |
| Intake filter with intake hose | 014539 |
| Optional and not included in the kit: | |
| Motor accessories for crash frame consisting of V-belt N2597, V-belt pulley N25707, hinged motor plate, screws | 78863 |
| Conversion kit to Utilus II with electric drive 440 V / 50 Hz | 79 191-UII-E |
| Scope of delivery | |
| Three-phase motor 2.2 kW | N3388 |
| Motor accessories for carrying frame consisting of V-belt N2594 or N2403, V-belt pulley N17847 or N17848, hinged motor plate, screws | 78859 |
| Optional and not included in the kit: | |
| Motor accessories for crash frame consisting of V-belt N2597 or N2595, V-belt pulley N17847 or N17848, hinged motor plate and screws | 78861 |
| Motor protection switch 2.2 kW / 440 V / 50 Hz | 073186-V001 |
| Motor protection switch 2.2 kW / 440V / 60 Hz | 073186-V002 |
| Connection cable up to 5.5 kW | 073182-V001 |
| Undervoltage trip 440 V / 60 Hz | N24129 |
| Auxiliary switch | N18426 |
| Conversion kit to Utilus II with AC drive 230 V / 50 Hz | 79 191-UII-W |
| Scope of delivery | |
| Electric motor, motor protection switch and connection cable with plug | N19108 |
| Motor accessories for carrying frame consisting of V-belt N2594 or N2403, V-belt pulley N17847 or N1 7848, hinged motor plate, screws | 78859 |
| Optional and not included in the kit: | |
| Motor 230 V / 60 Hz | 19110 |

If converting to petrol drive, the appropriate filter cartridge with CO converter is supplied. Please specify the existing filter system in your order. (e.g. P21 or P31)

CONVERSION KITS CAPITANO II

| Designation | Order number |
|---|---------------|
| Conversion kit to Capitano II with petrol drive | 79 19 1-UII-B |
| Scope of delivery | |
| Petrol engine 4 kW | N20703 |
| Motor accessories for carrying frame consisting of V-belt N3185, V-belt pulley 14300, hinged motor plate, anti-vibration mount and screws | 78883 |
| Intake filter with intake hose | 014539 |
| Optional and not included in the kit: | |
| Motor accessories for crash frame consisting of V-belt N17232, V-belt pulley 14300, hinged motor plate, anti-vibration mount and screws | 78884 |
| Conversion kit to Capitano II with electric drive 440V / 50Hz | 79 19 1-CII-E |
| Scope of delivery | |
| Three-phase motor 3 kW | N2774 |
| Motor accessories for carrying frame consisting of V-belt N2595 or N3336, V-belt pulley 6637 or 55456 and screws | 78885 |
| Optional and not included in the kit: | |
| Motor protection switch 3 kW | 073184 |
| Connection cable up to 5.5 kW | 073182-V001 |
| Undervoltage trip 440V / 60Hz | N24129 |
| Auxiliary switch | N18426 |

If converting to petrol drive, the appropriate filter cartridge with CO converter is supplied.
Please specify the existing filter system in your order. (e.g. P21 or P31)

CONVERSION KITS MARINER II

| Designation | Order number |
|---|---------------|
| Conversion kit to Mariner II with petrol drive | 79 191-MII-B |
| Scope of delivery | |
| Petrol engine 6.6 kW | N19887 |
| Motor accessories consisting of V-belt N17232, V-belt pulley 58209 and screws | 78887 |
| Intake filter with intake hose | 14539 |
| Conversion kit to Mariner II with electric drive 440 V / 50 Hz | 79 191-MII-E |
| Scope of delivery | |
| Three-phase motor 4.0 kW | N3390 |
| Motor accessories consisting of V-belt N2598 or N2597, V-belt pulley 6637 or 55456 and screws | 78889 |
| Optional: | |
| Motor protection switch 3 kW | 073184 |
| Motor protection switch 3 kW | 073310 |
| Connection cable up to 5.5 kW | 073182-V001 |
| Undervoltage trip 440 V / 60 Hz | N24129 |
| Auxiliary switch | N18426 |
| Conversion kit to Mariner 200 with petrol drive | 79 191-M200-B |
| Scope of delivery | |
| Petrol engine 8.8 kW | N32539 |
| Motor accessories consisting of V-belt N2598, V-belt pulley 125195, screws and filter cartridge with CO conversion, depending on selection, matching the existing filter system | 78887 |
| Intake filter with intake hose | 14539 |
| Conversion kit to Mariner 200 with electric drive 440 V / 50 Hz | 79 191-M200-E |
| Scope of delivery | |
| Petrol engine 8.8 kW | N32539 |
| Motor accessories consisting of V-belt N2598, V-belt pulley 125195, screws and filter cartridge with CO conversion, depending on selection, matching the existing filter system | 78887 |
| Intake filter with intake hose | 14539 |

If converting to petrol drive, the appropriate filter cartridge with CO converter is supplied.
Please specify the existing filter system in your order. (e.g. P21 or P31)

CONVERSION KITS MARINER II

| Designation | Order number |
|---|--------------|
| Conversion kit to Mariner 250 with petrol drive | 79191-M250-B |
| Scope of delivery | |
| Petrol engine 8.8 kW | N32539 |
| Motor accessories consisting of V-belt N2598, V-belt pulley 125195, screws and filter cartridge with CO conversion, depending on selection, matching the existing filter system | 78887 |
| Intake filter with intake hose | 14539 |
| Conversion kit to Mariner 250 with electric drive 440 V / 50 Hz | 79191-M250-E |
| Scope of delivery | |
| Petrol engine 8.8 kW | N32539 |
| Motor accessories consisting of V-belt N2598, V-belt pulley 125195, screws and filter cartridge with CO conversion, depending on selection, matching the existing filter system | 78887 |
| Intake filter with intake hose | 14539 |
| Conversion kit to Mariner 320 with petrol drive | 79191-M320-B |
| Scope of delivery | |
| Petrol engine 8.8 kW | N32539 |
| Motor accessories consisting of V-belt N2598, V-belt pulley 125195, screws and filter cartridge with CO conversion, depending on selection, matching the existing filter system | 78887 |
| Intake filter with intake hose | 14539 |
| Conversion kit to Mariner 320 with electric drive 440 V 50 Hz | 79191-M320-E |
| Scope of delivery | |
| Three-phase motor 7.5 kW | N25462 |
| Motor accessories consisting of V-belt N18841, V-belt pulley N18496, screws, motor protection switch 80585 with connection cable 7.5 kW | 80444 |

If converting to petrol drive, the appropriate filter cartridge with CO converter is supplied.
Please specify the existing filter system in your order. (e.g. P21 or P31)

CONVERSION KITS OCEANUS

| Designation | Order number |
|--|--------------|
| Conversion kit to Oceanus with petrol drive | 79191-OCE-B |
| Scope of delivery | |
| Petrol engine 5.1 kW | N30869 |
| Motor accessories consisting of V-belt N15748, centrifugal clutch N26326 and screws | 78699 |
| Intake filter with intake telescope | 077323 |
| Conversion kit to Oceanus with electric drive 440 V / 50 Hz | 79191-OCE-E |
| Scope of delivery | |
| Three-phase motor 3.0 kW | N2774 |
| Motor accessories consisting of V-belt N15725 or N15426, V-belt pulley N19248 or N25590 and screws | 78614 |
| Optional: | |
| Motor protection switch 3 kW / 50 Hz / 400 V incl. 5 m connection cable | 78628 |
| Motor protection switch 3 kW / 220 V incl. 5 m connection cable | 077956-V003 |
| Motor protection switch 3 kW / 60Hz / 400 V incl. 5 m connection cable | 077956-V006 |
| Undervoltage trip 440V / 60Hz | N24129 |
| Auxiliary switch | N18426 |

| Designation | Order number |
|---|--------------|
| Conversion kit to Oceanus with AC drive 230 V / 50-60 Hz | 79191-OCE-W |
| Scope of delivery | |
| Electric motor 230V, motor protection switch and connection cable with plug | N25633 |
| Motor accessories consisting of V-belt N15725, V-belt pulley N19248, screws | 078614 |

If converting to petrol drive, the appropriate filter cartridge with CO converter is supplied. Please specify the existing filter system in your order. (e.g. P21 or P31)

OPERATING PRESSURE CONVERSION KITS

| Designation | Order number |
|--|--------------|
| Conversion kit from 225 bar to 330 bar | 074051 |
| Scope of delivery | |
| Switch-over device | 073796-KD |
| Safety valve 330 bar | 059410-330 |
| Filling hose | N2817 |
| Filling valve 330 bar | 071344 |
| Conversion kit from 330 bar to 225 bar | 074052 |
| Scope of delivery | |
| Switch-over device | 073796-KD |
| Safety valve 225 bar | 059410-225 |
| Filling hose | N2817 |
| Filling valve 225 bar | 071343 |

Remark: Not possible with PE 100

CONVERSION KITS AUTOMATIC CONDENSATE DRAIN

| Designation | Order number |
|------------------|--------------|
| Capitano 140 P21 | 122400 |
| Capitano 140 P31 | 122638 |
| Mariner 320 P31 | 122500 |
| Mariner 200 P21 | 122682 |
| Mariner 200 P31 | 122683 |
| Mariner 250 P21 | 122681 |
| Mariner 250 P31 | 122675 |

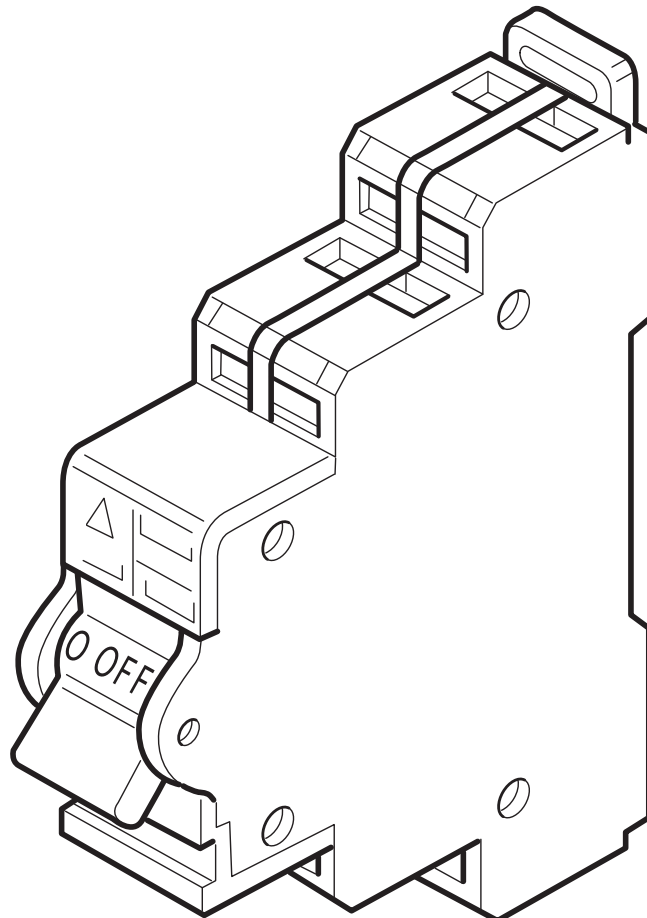
CIRCUIT BREAKERS / FI PROTECTION SWITCH

TECHNICAL DATA CIRCUIT BREAKERS:

- › **Ampere:** from 1.0 to 35
- › **Volt:** from 230 to 690
- › **Pole number:** 1-pol.
1-pol. with N
3-pol.
3-pol. with N

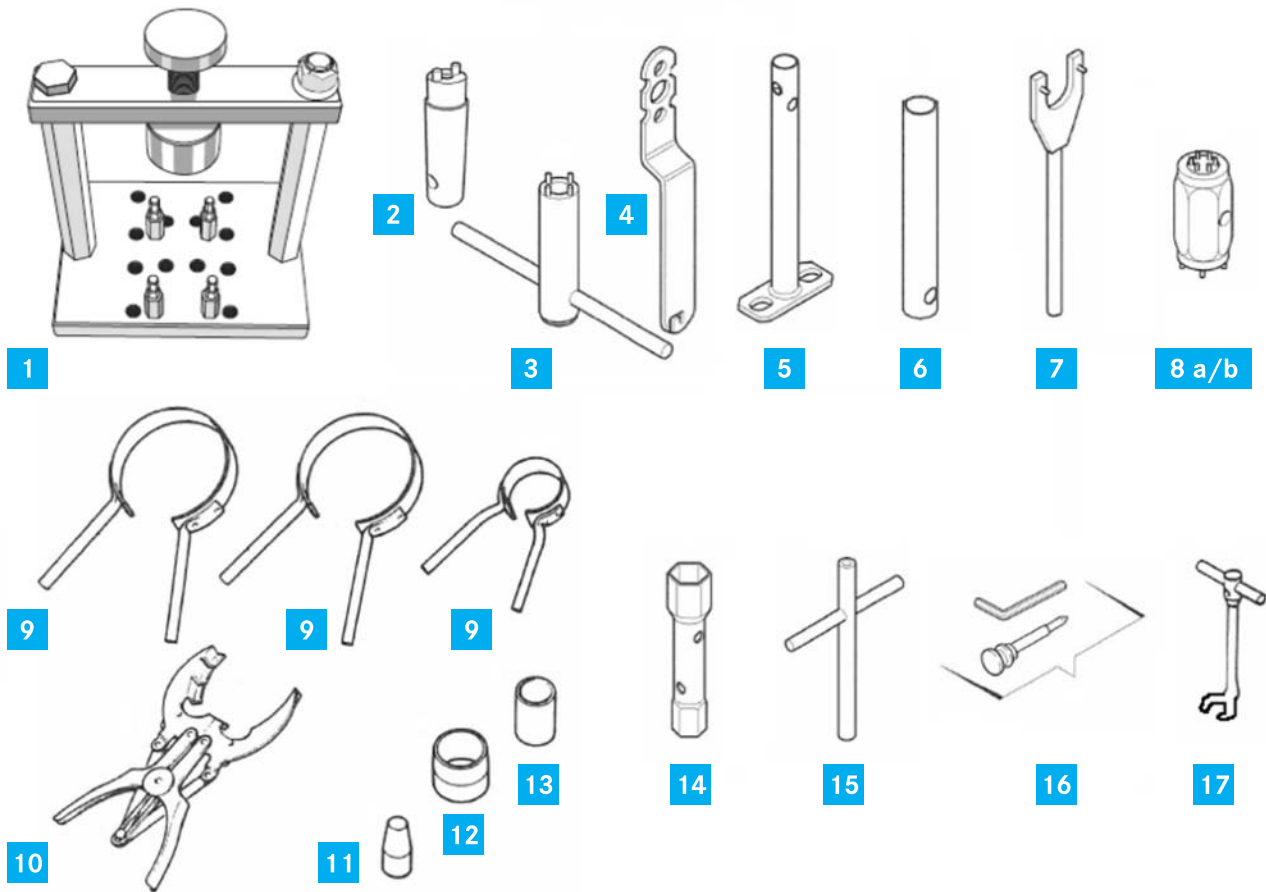
TECHNICAL DATA FI-PROTECTION SWITCH:

- › **Ampere:** 16 to 63
- › **Triggering mA:** 30
- › **Volt:** 230 to 440
- › **Pole number:** 1-pol. with N
3-pol. with N



| Type | Characteristics | Ampere | Volt | Order number |
|------------|-----------------|---------|------|--------------|
| 1-pol. | C | 1 | 230 | N24800 |
| 1-pol. | C | 2 | 230 | N24120 |
| 1-pol. | C | 3 | 230 | N24790 |
| 1-pol. | B | 6 | 230 | N20921 |
| 1-pol. | B | 10 | 230 | N25036 |
| 1-pol. | B | 13 | 230 | N27615 |
| 1-pol. | B | 16 | 230 | N26702 |
| 1-pol.+N | K | 1.6 | 690 | N24077 |
| 1-pol.+N | C | 2 | 230 | N27028 |
| 1-pol.+N | B | 6 | 690 | N25528 |
| 1-pol.+N | B | 10 | 230 | N27027 |
| 1-pol.+N | B | 16 | 230 | N27029 |
| 3-pol. | K | 2 | 690 | N26351 |
| 3-pol. | K | 6 | 440 | N26628 |
| 3-pol. | B | 16 | 690 | N26294 |
| 3-pol. | K | 20 | 690 | N24161 |
| 3-pol. | K | 25 | 690 | N24075 |
| 3-pol. | K | 32 | 400 | N26781 |
| 3-pol. | K | 35 | 690 | N25437 |
| 3-pol.+N | B | 16 | 440 | N27030 |
| FI 1-pol+N | - | 16/30mA | 230 | N25037 |
| FI 3-pol+N | - | 25/30mA | 440 | N25577 |
| FI 3-pol+N | - | 63/30mA | 440 | N24799 |

SPECIAL TOOLS



| Type | Order number |
|---|--------------|
| 1. Tool for valve installation. Makes the job significantly easier! Protects the valve head and valves! Simply clamp in the vice. Can be converted for various valve heads. (Compressor types) Can only be used in conjunction with 8a or 8b! | N32482 |
| 2. Pin spanner for pressure retention valve (repair and setting) | 81193 |
| 3. 4 pin spanners for pressure retention valve (repair and setting) | 85154 |
| 4. P-filter spanner (for opening cover and cartridge change) | 60074 |
| 5. SECCANT filter spanner (for opening and cartridge change) | N29373 |
| 6. Separator spanner (for intermediate separator insert) on newer models | 79846 |
| 7. Safety valve spanner (for older P21 filters with SV 061114) Repairs or settings on safety valves should only be entrusted to capable persons with up-to-date safety valve training! | 57478 |
| 8. a) Valve spanner 24 mm, 7.6 mm hole circle Ø for older valves | 04555 |
| 8. b) Valve spanner 24 mm, 8.5 mm hole circle Ø for newer valves | 82048 |


| Type | Order number |
|--|----------------|
| 9. Piston ring band 160 mm Ø 50 mm wide | 65039 |
| Piston ring band 130mm Ø 50 mm wide | 65901 |
| Piston ring band 88mm Ø 12mm wide | 67976 |
| Piston ring band 88mm Ø 25mm wide | 57494 |
| Piston ring band 45mm Ø 30mm wide | 57498 |
| Piston ring band 36mm Ø 20mm wide | 57499 |
| Piston ring sleeve 22 mm Ø no band but sleeve | 57406 |
| 10. Piston ring pliers small 55-100 mm cylinder diameter | N4452 |
| Piston ring pliers medium 60-120 mm cylinder diameter | N4453 |
| Piston ring pliers large 110-160 mm cylinder diameter | N16721 |
| Piston ring pliers maxi 160-215 mm cylinder diameter | N39888 |
| 11. Piston ring mounting sleeve 22 mm Ø | 57393 |
| 12. Piston ring mounting sleeve 45mm Ø | 57643 |
| 13. Piston ring mounting sleeve 18mm Ø | 64823 |
| 14. SECCANT filter spanner hexagon 32 mm (for opening cover) | N29373 |
| 15. T-spanner M12 for lifting and changing jumbo cartridges | 067146 |
| 16. Tool kit for inserting the clamping spring on toggle screws | 067458 |
| 17. Offset claw spanner 13 mm (e.g. for nuts on cylinder foot) | N3408 |
| Flowmeter 0-50 l/min., e.g. checking the blow-by (piston ring wear) | 81187-KD |
| Flowmeter 0-100 l/min., e.g. checking the blow-by (piston ring wear) | 81218-KD |
| Complete test kit for intermediate pressures. Consisting of pressure gauge 0-16 bar, 0-100 bar and 0-400 bar, 3x connection hose with connectors (N1269, N1271, N2623, N3569, N18323, N3007) | On request |
| Silicone sealing compound, flexible sealant for metal on metal, high-temperature connections (e.g. valve heads) | N18247 |
| Sealing tape 12 mm wide Teflon tape DIN-DVGW | N19943 |
| Special grease for O-rings and oil seals | 072500 |
| High-temp. grease for threads exposed to high temperatures. -180 °C to +1200 °C (e.g. output of the last stage) | N19753 |
| Universal grease, screwed fittings of all kinds in the industrial and breathing air sector (food-stuffs certification) -30 °C to +120 °C | N19752 |
| Thread locking agent for gluing in threads (screws, staybolts) | N25834 |
| Thread seal for sealing conical threaded fittings | N28220 |
| Leak detector spray (with corrosion protection) 400 ml for detecting leaks | N25833 |
| Spray paint silver grey RAL 9006 600 ml | N26255 |
| Spray paint turquoise blue RAL 5018 600 ml | N28410-RAL5018 |

TOOL RECOMMENDATIONS

| Double open-ended spanner | Type | Size | Kit | Qty. | Order number |
|---|--------|-------|-----|------------|--------------|
|  | Garant | 5,5x7 | | 1 | N41832 |
| | | 8x10 | | 1 | N41832-S01 |
| | | 10x11 | | 1 | N41832-S02 |
| | | 12x13 | | 1 | N41832-S03 |
| | | 12x14 | | 1 | N41832-S04 |
| | | 13x14 | | 1 | N41832-S05 |
| | | 13x17 | | 1 | N41832-S06 |
| | | 16x17 | | 1 | N41832-S07 |
| | | 17x19 | | 1 | N41832-S08 |
| | | 19x22 | | 1 | N41832-S09 |
| | | 22x24 | | 1 | N41832-S10 |
| | | 24x27 | | 1 | N41832-S11 |
| | | 27x30 | | 1 | N41832-S12 |
| | | 30x32 | | 1 | N41832-S13 |
| | 36x41 | | 1 | N41832-S14 | |

| Combination spanner long | Type | Size | Kit | Qty. | Order number |
|---|--------|------|-----|------------|--------------|
|  | Garant | 8 | | 1 | N41833 |
| | | 10 | | 1 | N41833-S01 |
| | | 11 | | 1 | N41833-S02 |
| | | 12 | | 1 | N41833-S03 |
| | | 13 | | 1 | N41833-S04 |
| | | 14 | | 1 | N41833-S05 |
| | | 16 | | 1 | N41833-S06 |
| | | 17 | | 1 | N41833-S07 |
| | | 19 | | 1 | N41833-S08 |
| | | 22 | | 1 | N41833-S09 |
| | | 24 | | 1 | N41833-S10 |
| | | 27 | | 1 | N41833-S11 |
| | | 30 | | 1 | N41833-S12 |
| | 32 | | 1 | N41833-S13 | |

| Socket-Set | Type | Size | Kit | Qty. | Order number |
|---|----------------------|--|-----|------|--------------|
|  | Hazer | Smart tool case with stand-up function | Kit | 1 | N41834 |
| | | 9 Sockets 1/4 (hexagon) 5 - 13 mm | | | |
| | | 13 Sockets 1/2 (hexagon) 11 - 27 mm | | | |
| | | 5 bits (hexagon) 2 - 6 mm | | | |
| | | 3 bits (slotted) 4 - 8 mm | | | |
| | | 2 bits (PH) 1 - 2 | | | |
| | | 2 bits (PZ) 1 - 2 | | | |
| | | 5 bits (für Torx®) TX10 - TX30 | | | |
| | | 1 Adapter 1/4 hexagon 1/4 | | | |
| | | 3 extensions 1/4 + 1/2 101,5-248 mm | | | |
| | 1 driver 1/4 | | | | |
| | 2 ratchets 1/4 + 1/2 | | | | |

| Socket-Set | Type | Size | Kit | Qty. | Order number | |
|---|--------|------|------|------|--------------|--------|
|  | Garant | 3/8" | 8-19 | Kit | 1 | N41806 |
| | | | | | | |
| | | | | | | |

| Hexagon-socket | Type | Size | Kit | Qty. | Order number |
|---|--------|--------------|---------|------|--------------|
|  | Holex | hexagon | 1/2" 30 | 1 | N41807 |
| | | hexagon | 1/2" 32 | 1 | N41808 |
|  | | hexagon lang | 3/8" 5 | 1 | N41809 |
| | Garant | hexagon lang | 3/8" 6 | 1 | N41810 |

TOOL RECOMMENDATIONS

| Hexagon key L-wrench | Type | Size | Kit | Qty. | Order number |
|----------------------|------|------|-----|------|--------------|
|----------------------|------|------|-----|------|--------------|

Swiss Tools



1.5-10 Kit 1 N41679

| Hexagon screwdriver | Type | Size | Kit | Qty. | Order number |
|---------------------|------|------|-----|------|--------------|
|---------------------|------|------|-----|------|--------------|

Horex.



5 1 N41811

6 1 N41812

| Screwdriver-Set | Type | Size | Kit | Qty. | Order number |
|-----------------|------|------|-----|------|--------------|
|-----------------|------|------|-----|------|--------------|

Horex



slotted 3.5-5.5-7.8 Kit 1 N41827

Phillips 1+2

Pozidriv 1+2

| Screwdriver-Set | Type | Size | Kit | Qty. | Order number |
|-----------------|------|------|-----|------|--------------|
|-----------------|------|------|-----|------|--------------|

Swiss Tools



short 4 1 N41828

Wera



Wide/impact cap 14 1 N41829

Wera



Micro 2.5 1 N41830

| Pliers-Set | Type | Size | Kit | Qty. | Order number |
|------------|------|------|-----|------|--------------|
|------------|------|------|-----|------|--------------|

Horex



4 Kit 1 N41831

Universal pliers

Angled long nose pliers

Water pump pliers.

Side cutter

| Pliers | Type | Size | Kit | Qty. | Order number |
|--------|------|------|-----|------|--------------|
|--------|------|------|-----|------|--------------|

Knipex



0-60mm SW 300 1 N41790

| Adjustable spanner | | Type | Size | Kit | Qty. | Order number |
|----------------------|---|----------------------------|---------------------------|-----|------|--------------|
| Horex |  | 0-34mm SW | 300 | | 1 | N41791 |
| Circlip pliers | | Type | Size | Kit | Qty. | Order number |
| Horex |  | 45° angled Inside rings | Rings 12-25Ø Tips 1.3Ø | | 1 | N41792 |
| Horex |  | Outside rings | Rings 10-25Ø Tips 1.3Ø | | 1 | N41797 |
| Torque wrench | | Type | Size | Kit | Qty. | Order number |
| Garant |  | 3/8" 0-60 Nm | 60 | | 1 | N41681 |
| Pin punch set | | Type | Size | Kit | Qty. | Order number |
| Rennsteig |  | 2-8mm | 6 | Kit | 1 | N41798 |
| Centre punch | | Type | Size | Kit | Qty. | Order number |
| Rennsteig |  | 5x120 | 120/10 | | 1 | N41799 |
| Engineer´s hammer | | Type | Size | Kit | Qty. | Order number |
| Garant |  | 200g | 200 | | 1 | N41800 |
| | | 400g | 400 | | 1 | N41801 |
| Soft mallet | | Type | Size | Kit | Qty. | Order number |
| Garant |  | 269g | 27 | | 1 | N41802 |
| | | 578g | 40 | | 1 | N41803 |
| Hacksaw frame | | Type | Size | Kit | Qty. | Order number |
| Bahco |  | 300mm | | | 1 | N41804 |
| Engineer´s files-Set | | Type | Size | Kit | Qty. | Order number |
| Horex |  | Hieb 2 250mm | 250 | Kit | 1 | N41805 |


TOOL RECOMMENDATIONS

| Fleece hand pad | Type | Size | Kit | Qty. | Order number |
|--|-----------------------------|-----------|---------|------|--------------|
| Holex  | | 220 | | 1 | N41777 |
| Hand deburrer | Type | Size | Kit | Qty. | Order number |
| Garant  | 90° HSS | 12,4 | | 1 | N41682 |
| Engineer´s scraper | Type | Size | Kit | Qty. | Order number |
| Rennsteig  | | 7x85mm | | 1 | N41778 |
| General knife | Type | Size | Kit | Qty. | Order number |
| Tajima  | | 18mm | | 1 | N41779 |
| Bending pliers | Type | Size | Kit | Qty. | Order number |
| Virax  | Niro max. 1.5mm | 6 | | 1 | N41683 |
| | Wall thickness | 8 | | 1 | N41684 |
| Try square, accuracy | Type | Size | Kit | Qty. | Order number |
| Garant  | | 150x100mm | 150x100 | 1 | N41780 |
| Tape measure | Type | Size | Kit | Qty. | Order number |
| Holex  | | 5m | 5 | 1 | N41781 |
| Vernier caliper | Type | Size | Kit | Qty. | Order number |
| Holex  | | 150mm | 150 | 1 | N41782 |
| Angle scriber | Type | Size | Kit | Qty. | Order number |
| Holex  | | 230mm | | 1 | N41783 |
| General hand brush | Type | Size | Kit | Qty. | Order number |
| Lessmann  | 0.35mm Stainless steel wire | | | 1 | N41788 |

| Pipe wrench | | Type | Size | Kit | Qty. | Order number |
|-----------------------|---|--|-------------|-----|------|--------------|
| VBW |  | 3" 106mm | 3 | | 1 | N41789 |
| LED torch | | Type | Size | Kit | Qty. | Order number |
| Holex |  | IPX4 | 155 | | 1 | N41771 |
| Magnetic retriever | | Type | Size | Kit | Qty. | Order number |
| Holex |  | 520mm 10N 12Ø | 1000 | | 1 | N41685 |
| Belt wrench | | Type | Size | Kit | Qty. | Order number |
| Holex |  | | 20/600 | | 1 | N41686 |
| Oil can | | Type | Size | Kit | Qty. | Order number |
| Mato |  | 300ml | 300 | | 1 | N41772 |
| Tool roll | | Type | Size | Kit | Qty. | Order number |
| Holex |  | 15 compartments | 680x320 | | 1 | N41773 |
| Service tool case | | Type | Size | Kit | Qty. | Order number |
| Holex |  | Max. 25 kg, wheeled | 465x352x215 | | 1 | N41774 |
| Pneum. impact wrench | | Type | Size | Kit | Qty. | Order number |
| Chicago Pneumatic |  | 3/8" 68-414 Nm max. Luftbedarf 564 l/min | 7729 | | 1 | N41775 |
| Pry bar with heel | | Type | Size | Kit | Qty. | Order number |
| Heyco |  | 14x14 390mm | | | 1 | N41687 |
| Current clamp multim. | | Type | Size | Kit | Qty. | Order number |
| Benning |  | 600V DC / 600V AC 10mA-300A DC 100mA-300A AC | CM2 | | 1 | N41776 |
| Installation pliers | | Type | Size | Kit | Qty. | Order number |
| Knipex |  | Cutting edge -15Ø Stripper -2.5mm ² Crimper -2.5mm ² | 200 | | 1 | N41688 |

TOOL RECOMMENDATIONS


| Valve mounting tool | Type | Size | Kit | Qty. | Order number |
|---|------|--|-----|------|--------------|
|  | | Adjustable for different valve heads | | 1 | N32482 |
| 2 bolt wrench | Type | Size | Kit | Qty. | Order number |
|  | | For PMV (repair and adjustment) | | 1 | 81193 |
| 4 bolt wrench | Type | Size | Kit | Qty. | Order number |
|  | | For PMV (repair and adjustment) | | 1 | 85154 |
| P-filter wrench | Type | Size | Kit | Qty. | Order number |
|  | | To open cap for cartridge exchange | | 1 | 60074 |
| SECCANT-hexagon wrench | Type | Size | Kit | Qty. | Order number |
|  | | To open cap for cartridge exchange | | 1 | 66690 |
| SECCANT-hexagon wrench | Type | Size | Kit | Qty. | Order number |
|  | | Hexagon wrench to open SECANNT cap | | 1 | N29373 |
| T-wrench | Type | Size | Kit | Qty. | Order number |
|  | | "To lift and exchange ""Jumbo"" cartridge (M12 internal thread)" | | 1 | 067146 |
| Valve wrench new | Type | Size | Kit | Qty. | Order number |
|  | | For new version valves with 8.5mm hole diameter | | 1 | 82048 |
| Valve wrench old | Type | Size | Kit | Qty. | Order number |
|  | | For old version valves with 7.6mm hole diameter | | 1 | 04555 |


| Separator wrench | Type | Size | Kit | Qty. | Order number |
|---|--|------|-----|------|--------------|
|  | To exchange the insert assy.from interfilter (new model) | | | 1 | 79846 |

| Piston ring tape | Type | Size | Kit | Qty. | Order number |
|---|------|------------------|-----|------|--------------|
|  | | 36mmØ 20mm wide | | 1 | 57499 |
| | | 45mmØ 30mm wide | | 1 | 57498 |
| | | 88mmØ 25mm wide | | 1 | 57494 |
| | | 88mmØ 12mm wide | | 1 | 67976 |
| | | 130mmØ 50mm wide | | 1 | 65901 |
| | | 160mmØ 50mm wide | | 1 | 65039 |
| | | 215mmØ 50mm wide | | 1 | 172596 |








| Piston ring hull | Type | Size | Kit | Qty. | Order number |
|---|------|-------|-----|------|--------------|
|  | | 18mmØ | | | 64823 |
| | | 22mmØ | | | 57393 |
| | | 45mmØ | | | 57643 |






| Piston ring pliers | Type | Size | Kit | Qty. | Order number |
|---|------|------------|--------|------|--------------|
|  | | 55-100mmØ | small | 1 | N4452 |
| | | 60-120mmØ | medium | 1 | N4453 |
| | | 110-160mmØ | large | 1 | N16721 |
| | | 160-215mmØ | maxi | 1 | N39888 |

| Tommy screw tool | Type | Size | Kit | Qty. | Order number |
|---|---|------|-----|------|--------------|
|  | For mount spring with the tommy screw (e.g. P11 or P21) | | | 1 | 067458 |

| Claw wrench | Type | Size | Kit | Qty. | Order number |
|---|--------------------------|-------|-----|------|--------------|
|  | For hard to reach places | SW 13 | | 1 | N3408 |

TOOL RECOMMENDATIONS

| Flow-Meter | Type | Size | Kit | Qty. | Order number |
|---|---|-------------|-----|------|--------------|
|  | | 0-50 l/min | | 1 | 81187-KD |
| | | 0-100 l/min | | 1 | 81218-KD |
| | To check the blowby | | | | |
| Silicone sealant | Type | Size | Kit | Qty. | Order number |
|  | | | | 1 | N18247 |
| | Elastic sealant for high temperature metall to metall sealing | | | | |
| Thread sealant | Type | Size | Kit | Qty. | Order number |
|  | | | | 1 | N28220 |
| | For sealing conic thread | | | | |
| Threadlocking glue | Type | Size | Kit | Qty. | Order number |
|  | | | | 1 | N25834 |
| | For gluing threads (e.g. screws and bolts) | | | | |
| Sealing tape | Type | Size | Kit | Qty. | Order number |
|  | | | | 1 | N19943 |
| | Teflon tape 12mm wide | | | | |
| Special grease | Type | Size | Kit | Qty. | Order number |
|  | | | | 1 | 072500 |
| | For O-ring and oil seal (small tube with 3g.) | | | | |
| Universal grease | Type | Size | Kit | Qty. | Order number |
|  | | | | 1 | N19752 |
| | All types of screw in the industrial and breathing zone. | | | | |

| High-performance grease | Type | Size | Kit | Qty. | Order number |
|---|------|-------|-----|------|--------------|
|  | | | | 1 | N32562 |
| High-performance grease in a practical 100g tube | | | | | |
| High-temperature grease | Type | Size | Kit | Qty. | Order number |
|  | | | | 1 | N19753 |
| For threads exposed to high temperatures. (e.g. Outlet last stage) | | | | | |
| Leak-detection spray | Type | Size | Kit | Qty. | Order number |
|  | | 400ml | | 1 | N25833 |
| For easy to find leaks (with corrosion protection) | | | | | |
| Spray paint | Type | Size | Kit | Qty. | Order number |
|  | | 600ml | | 1 | N26255 |
| Silver gray | | | | | |
| Valve tool | Type | Size | Kit | Qty. | Order number |
|  | | SW 36 | | 1 | 124999 |
| For mount valves in CEODEUX storage bottles | | | | | |


OIL

Check the precise oil fill volumes using the dipstick or oil sight glass. For recommended oils, see the current oil list.

OIL QUANTITIES OF THE INDIVIDUAL COMPRESSOR TYPES

| Compressor type | Oil | Oil | Top-up volume | Oil filter |
|--|-------------|-------------|---------------|----------------------------------|
| | max. litres | min. litres | Litre* | (Litre) |
| U-10 JUNIOR JUNIOR II | 0.35 | 0.28 | -0.07 | — |
| OCEANUS | 01.30 | 01.10 | -0.20 | — |
| UTILUS CAPITANO MARINER | 01.75 | 01.50 | -0.25 | — |
| UTILUS II CAPITANO II MARINER II | 02.90 | 02.40 | -0.50 | Internal Internal Internal |
| IK 100 IK 120 | 02.80 | 02.40 | -0.40 | — |
| IK 100II IK 120II IK 12.14II | 02.90 | 02.40 | -0.50 | Internal Internal Internal |
| K14 K14.11 | 02.80 | 02.20 | -0.60 | — |
| K15 K16 K150 K180 K18.1 | 04.40 | 04.10 | -0.30 | — |
| IK150II IK180II IK18.1 II | 06.00 | 04.40 | -1.60 | Internal Internal Internal |
| IK22.0 IK22.5 | 08.50 | 06.75 | -1.75 | -0.50 |
| IK23.0 IK23.4 | 10.50 | 08.30 | -2.20 | -0.50 |
| IK25.0, IK25.4, IK25.5, IK25.9, IK25.18 IK28.0, IK28.2, IK28.3 | 34.00 | 25.00 | -9.00 | -1.00 |

* From max. to min.

OIL TYPES

| Designation | Contents | Application type | Order number |
|---------------|----------|--------------------------------------|--------------|
| Synthetic oil | 1 litre | Breathing air, industrial air* | N28355-1 |
| Synthetic oil | 5 litre | Breathing air, industrial air* | N28355-5 |
| Synthetic oil | 20 litre | Breathing air, industrial air* | N28355-20 |
| Mineral oil | 1 litre | Breathing air, industrial air* | N22138-1 |
| Mineral oil | 5 litre | Breathing air, industrial air* | N22138-5 |
| Mineral oil | 20 litre | Breathing air, industrial air* | N22138-20 |
| Synthetic oil | 1 litre | Breathing air, industrial air* | N19745-1 |
| Synthetic oil | 5 litre | Breathing air, industrial air* | N19745-5 |
| Synthetic oil | 20 litre | Breathing air, industrial air* | N19745-20 |
| Synthetic oil | 1 litre | Natural gas* | N26303-1 |
| Synthetic oil | 5 litre | Natural gas* | N26303-5 |
| Synthetic oil | 20 litre | Natural gas* | N26303-20 |
| Synthetic oil | 1 litre | Industrial, nitrogen, helium, argon* | N18145-1 |
| Synthetic oil | 5 litre | Industrial, nitrogen, helium, argon* | N18145-5 |
| Synthetic oil | 20 litre | Industrial, nitrogen, helium, argon* | N18145-20 |
| Synthetic oil | 1 litre | Industrial, nitrogen* | N30387-1 |
| Synthetic oil | 5 litre | Industrial, nitrogen* | N30387-5 |
| Synthetic oil | 20 litre | Industrial, nitrogen* | N30387-20 |
| Engine oil | 1 litre | Honda engines | 073266 |

| Date of delivery | Oil used on first delivery for breathing air compressors | Number of the oil used for breathing air compressors |
|------------------------------|--|--|
| up to August 1992 | Mineral oil | Shell Ensis |
| September 1992 to March 1999 | Synthetic oil | N19745 |
| from April 1999 onwards | Mineral oil | N22138 |
| from August 2006 onwards | Synthetic oil | N28355 |
| Mineral oil | 5 litre | N22138-5 |
| Mineral oil | 20 litre | N22138-20 |

* Breathing air: approved for breathing air application in conjunction with BAUER air purification systems

* Industrial air: suitable for industrial air compressors

* Natural gas: suitable for natural gas compressor systems

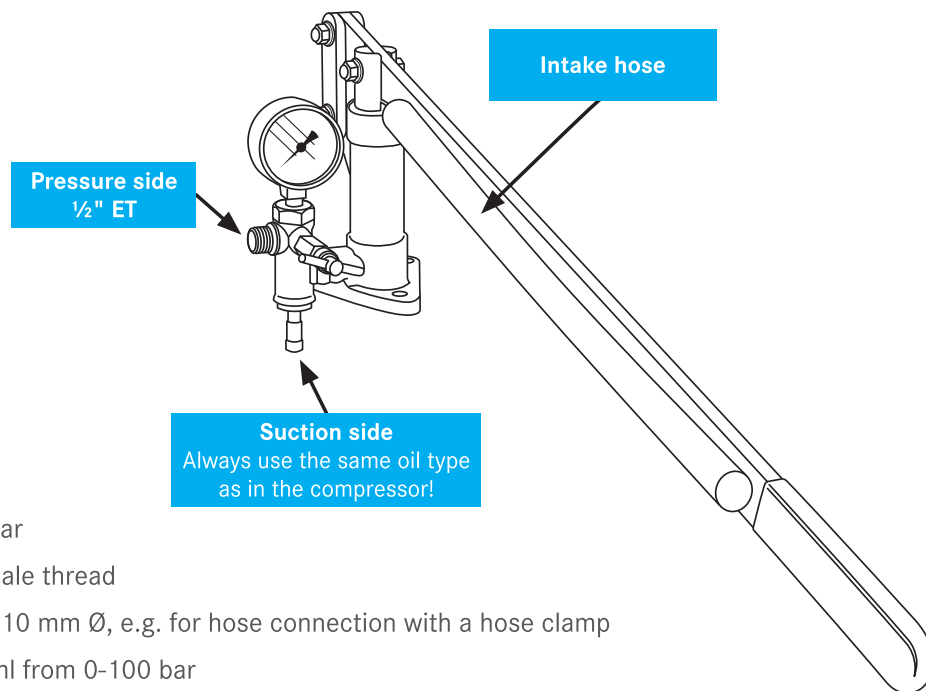
Oil for screw compressors (B-Trox) = N30543

PRELUBRICATION OIL PUMP

SUITABLE FOR LARGER COMPRESSORS WITH OIL PUMP LUBRICATION!

Especially when the compressors are subject to longer standstill times (more than 4 weeks), it is advisable to supply the entire lubrication system with oil before recommissioning. Prelubrication is extremely important, especially if the piston rods of the compressors are supported by bearing cups and bushes! The connection for prelubrication should be somewhere next to the oil pump. Due to the large variety of compressor types, the pump is delivered without the connecting hose to the compressor and oil reservoir (see photo)!

For more precise information, please refer to the documentation of your compressor unit!



PUMP DATA

- › **Max. pump pressure:** 500 bar
- › **Pressure side output:** 1/2" male thread
- › **Suction side input:** Approx. 10 mm Ø, e.g. for hose connection with a hose clamp
- › **Oil amount per stroke:** 35 ml from 0-100 bar
- › **Design:** Pump and valve in non-ferrous metal, pump lever in iron.

SCOPE OF DELIVERY

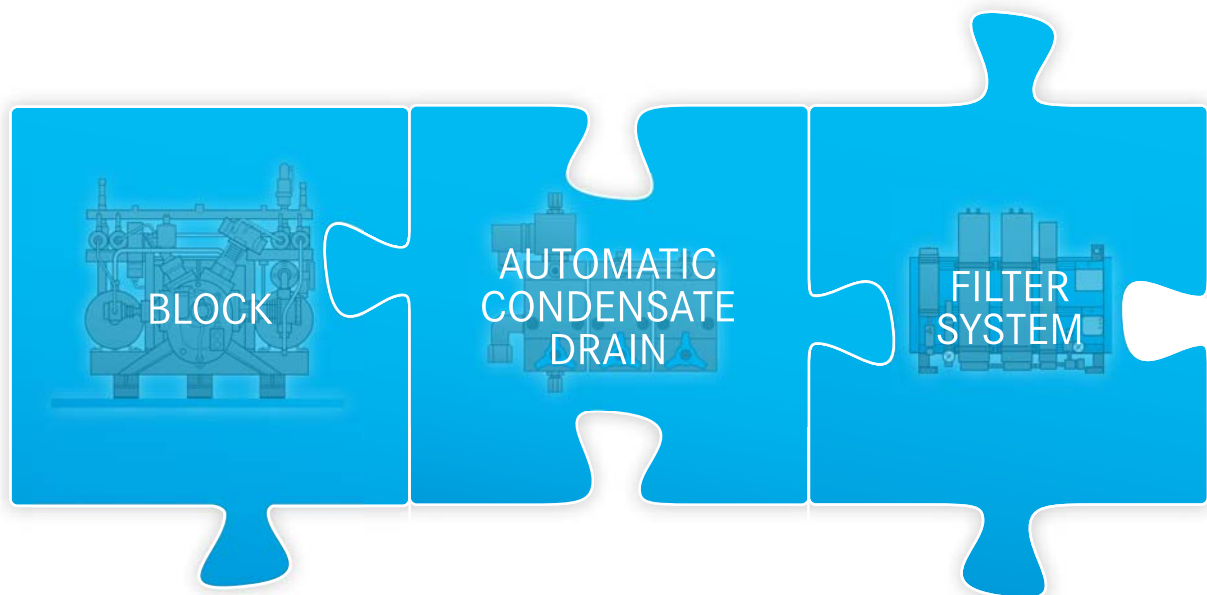
The pump is delivered with a pressure gauge and approx. 500 mm intake hose.

ORDER NUMBER

N33248

AVOIDING BREAKDOWNS:

BAUER KOMPRESSOREN MAINTENANCE KITS



THE ADVANTAGES OF OUR MAINTENANCE KITS

- › High availability of your systems
- › Prevents unexpected breakdowns and downtimes
- › Ensuring the long service life of your compressors
- › Low maintenance costs combined with high safety
- › Maintenance kits offer a price advantage compared to buying the individual spare parts
- › Reduction in repair and maintenance costs for your compressor
- › Exclusive use of BAUER genuine spare parts in tried-and-tested BAUER quality

BAUER KOMPRESSOREN MAINTENANCE KITS

EXPLANATION OF TERMS

- › **A** = Breathing air
- › **I** = Industry air/dry gases old
- › **D** = Dry gases
- › **G** = Natural gas/dry gases old

Example: Spare parts list A1, IK100, production status 2, breathing air, appropriate maintenance kit = A-100-F2/3-abc1

In some old maintenance kits for GI systems, the "I" kit or the "G" kit may still be valid instead of the "D" kit. No new "D" kit is created for a small number of blocks with an old production status.



HOW DO I FIND THE RIGHT BLOCK MAINTENANCE KIT IN THE TABLE?

After how many operating hours do I require the maintenance kit?

A Maintenance kits

- 500h = a1
- 1000h = ab1
- 2000h = abc1

I,D,G Maintenance kits

- 1000h = a1
- 2000h = ab1
- 4000h = abc1

Production status?

Depending on the year and month of manufacture

What compressor block do I have?

What is compressed?

- A = Breathing air
- I = Industrial air
- D = Dry gases
- G = Natural gas



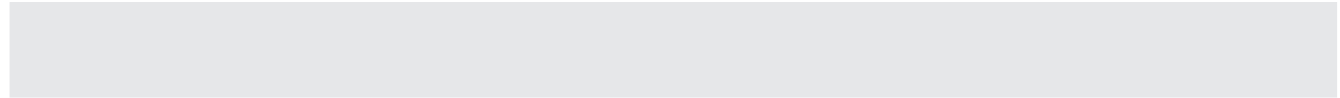
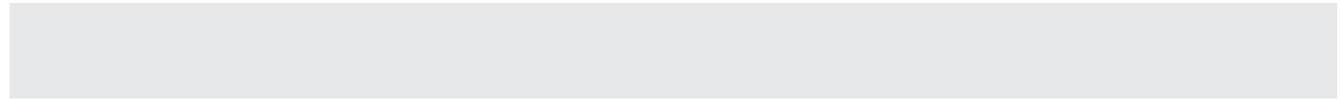
AN EXAMPLE:

You own an industrial air compressor, IK **12.14**, built in 01/2004, with production status **F3** and you want to carry out a **2000h** maintenance.

You would have to order the following maintenance kit: **I-12.14II-F3-ab1**

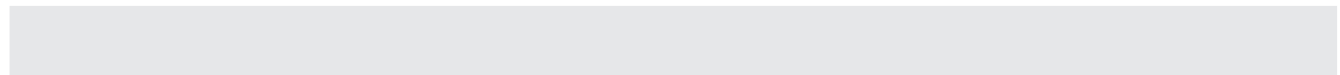
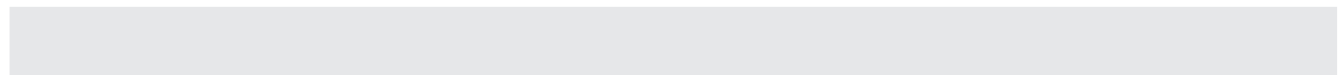
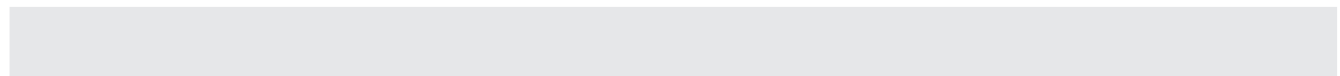
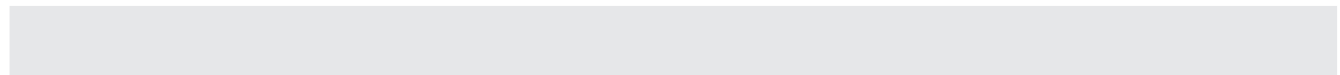
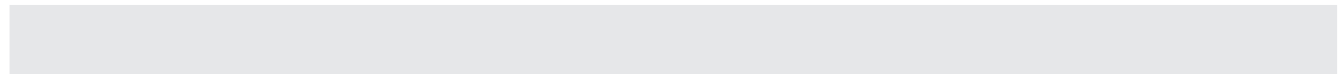
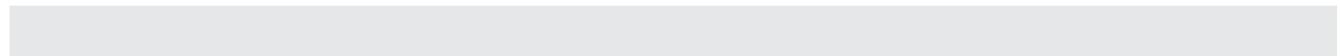
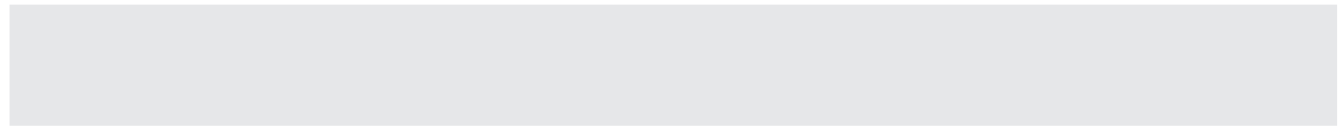
| Block/A-list | Block | Sector | Additional inf. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|--------------|----------------------------|---------------------------------------|-----------------|---|---|---|---|---|-----------------------------|-----------------------------|
| | PE100 | Breathing air | | | | | A-PE100-F4 01/2011 - dato | | | |
| | Junior (+U10) | Breathing air | | A-Junior-F1/3 02/1993 - 04/1998 | A-Junior-F1/3 02/1993 - 04/1998 | A-Junior-F1/3 02/1993 - 04/1998 | | | | |
| | Junior II | Breathing air | | | | A-JuniorII-F3 05/1999 - 12/2001 | A-JuniorII-F4 01/2001 - dato | | | |
| | Purus (+Vari- us / U10) | Breathing air | | A-Purus-F1 - 02/86 | A-Purus-F2 03/1986 - 01/1993 | | | | | |
| A41. | IK80-G | No kit - low quantity of blocks | | No kit - low quantity of blocks 27.05.1983 | | | | | | |
| A11. | Utilus, K13 | Breathing air | | No kit - low quantity of blocks 6.05.1972 | No kit - low quantity of blocks 12.02.1973 | No kit - low quantity of blocks 03.04.1973 | No kit - low quantity of blocks 25.10.1973 | No kit - low quantity of blocks 21.01.1974 | A-Utilus-F6/7 01.01.1975 | A-Utilus-F6/7 01.01.1976 |
| A13. | K13/02 | Breathing air | | | | | | | | |
| A9. | Mariner | Breathing air | | No kit - low quantity of blocks 06.06.1972 | A-Mari- ner-F2/3 07.02.1973 | A-Mari- ner-F2/3 25.10.1973 | | | | |
| A10. | Capitano | Breathing air | | A-Cap-F1/7 06.06.1972 | A-Cap-F1/7 07.02.1973 | A-Cap-F1/7 25.10-1973 | A-Cap-F1/7 01.01.1975 | A-Cap-F1/7 01.01.1976 | A-Cap-F1/7 01.01.1978 | A-Cap-F1/7 01.01.1980 |
| A125 | Oceanus | Breathing air | | A-Oceanus-F1 | | | | | | |
| A1. | IK100 | Breathing air | | A-100-F1 03.12.1984 | A-100-F2/3 21.11.1986 | A-100-F2/3 01.03.1996 | | | | |
| A1. | IK100 | Industrial air | | I-100-F1 03.12.1984 | I-100-F2/3 21.11.1986 | I-100-F2/3 01.03.1996 | | | | |
| A1. | IK100II | Breathing air | | | | | A-100II-F4 01.02.2000 | A-100II-F5 01.01.2004 | A-100II-F6 01.06.2004 | A-100II-F7 01.08.2005 |
| A1. | IK100II | Industrial air | | | | | I-100II-F4 01.02.2000 | I-100II-F5 01.01.2004 | I-100II-F6 01.06.2004 | I-100II-F7 01.08.2005 |
| A41. | IK100-C | Natural gas | | | I-100-F2/3 24.03.1987 | I-100-F2/3 01.03.1996 | | | | |
| A41. | IK100II-C | Natural gas | | | | | I-100II-F4 01.02.2000 | G-100II-F5/6 01.01.2004 | G-100II-F5/6 01.08.2005 | |
| A41. | IK100-GI | Dry gases | | | I-100-F2/3 24.03.1987 | I-100-F2/3 01.03.1996 | | | | |
| A41. | IK100II-GI | Dry gases | | | | | I-100II-F4 01.02.2000 | G-100II-F5/6 01.01.2004 | D-100II-F6 01.06.2004 | |
| A41. | IK100-G | Dry gases | | No kit - low quantity of blocks 27.05.1983 | I-100-F2/3 24.03.1987 | I-100-F2/3 01.03.1996 | | | | |
| A41. | IK100II-G | Natural gas / Dry gases | | | | | I-100II-F4 01.02.2000 | G-100II-F5/6 01.01.2004 | D-100II-F6 01.06.2004 | |

| | | | | | | | | | | |
|---|---|----|----|----|----|----|----|----|----|----|
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|----|----|----|----|----|----|----|----|----|



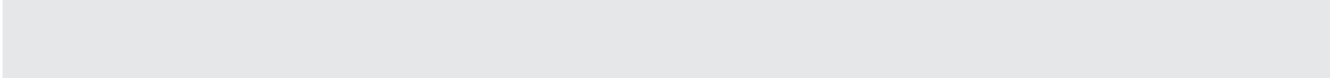
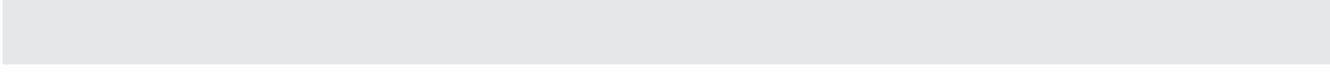
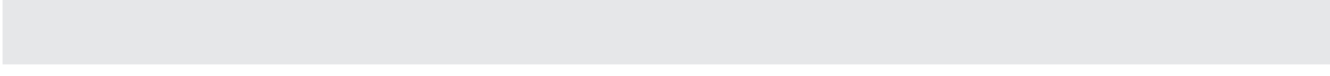
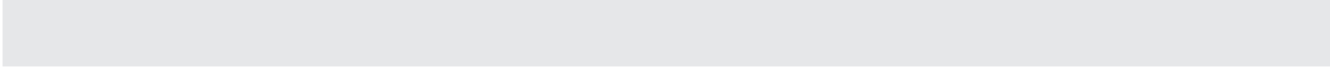
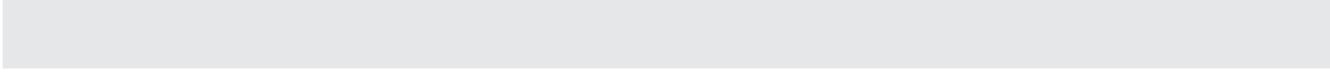
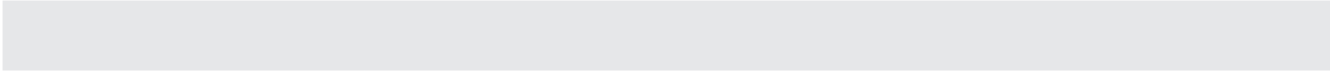
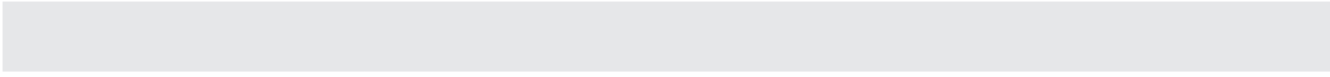
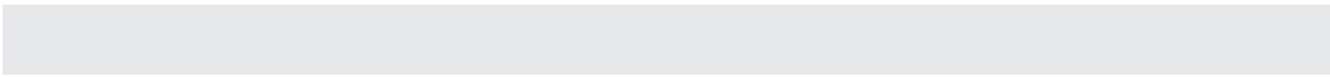
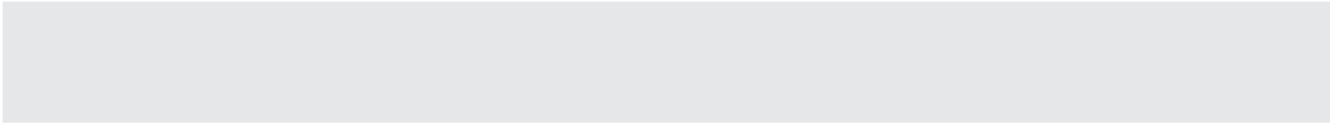
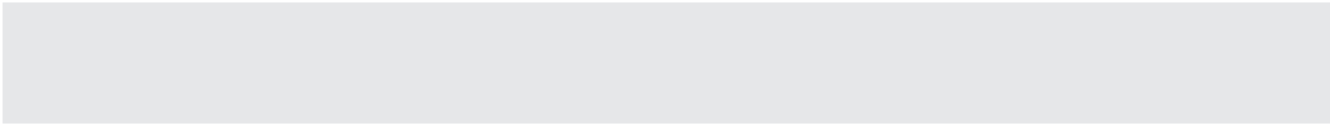
A-Utilus-F8 A-Utilus-F9
01.01.1978 01.01.1980

A-Utilus-F9
01.01.1980



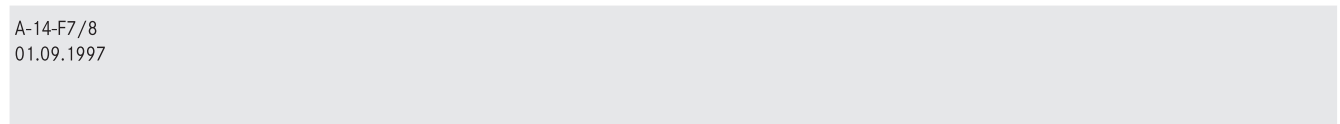
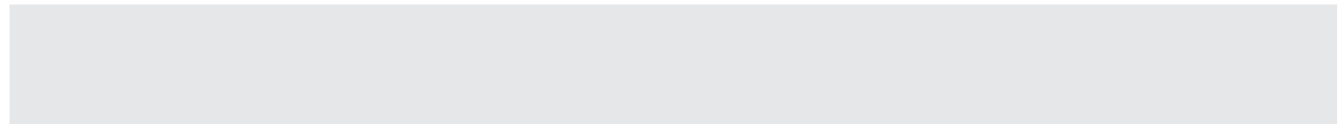
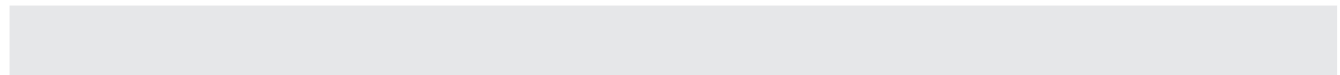
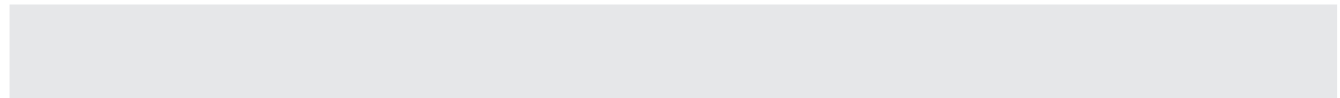
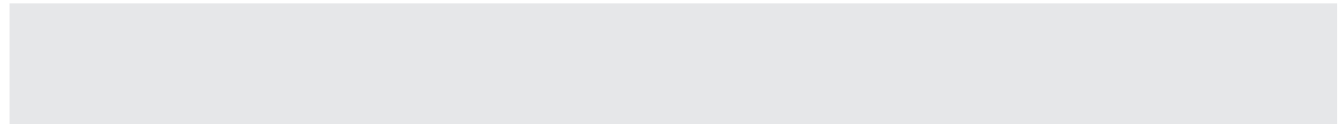
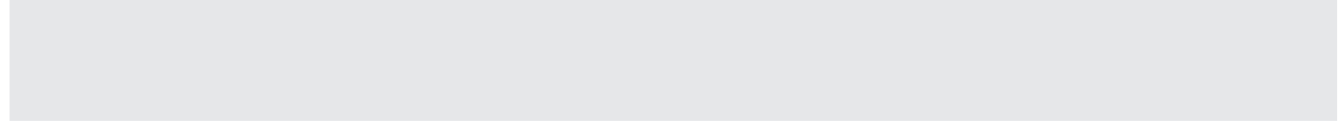
| Block / A-list | Block | Sector | Additional inf. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----------------|--------------|---------------------------------------|-----------------|---|---|---|---------------------------|-----------------------------|-----------------------------|---------------------------|
| A1.-H | IK100II-420 | Industrial air | | | | | I-100II-F4 01.08.2005 | | | |
| A14. | IK11.0 | No kit - low quantity of blocks | | No kit - low quantity of blocks 14.06.1988 | No kit - low quantity of blocks 01.03.1998 | No kit - low quantity of blocks 25.09.2000 | | | | |
| A50. | IK11.0-G | No kit - low quantity of blocks | | No kit - low quantity of blocks 29.11.1990 | No kit - low quantity of blocks 01.08.1998 | | | | | |
| A50. | IK11.0-C | No kit - low quantity of blocks | | No kit - low quantity of blocks 29.11.1990 | No kit - low quantity of blocks 01.03.1998 | | | | | |
| A1. | IK120 | Breathing air | | A-120-F1 03.12.1984 | A-120-F2 21.11.1986 | A-120-F3 01.03.1996 | | | | |
| A1. | IK120 | Industrial air | | A-120-F1 03.12.1984 | I-120-F2/3 21.11.1986 | I-120-F/3 01.03.1996 | | | | |
| A1. | IK120II | Breathing air | | | | | A-120II-F4 01.02.2000 | A-120II-F5 01.01.2004 | A-120II-F6 01.06.2004 | A-120II-F7 01.08.2005 |
| A1. | IK120II | Industrial air | | | | | I-120II-F4 01.02.2000 | I-120II-F5 01.01.2004 | I-120II-F6 01.06.2004 | I-120II-F7 01.08.2005 |
| A41. | IK120-G | Dry gases | | I-120-F1 27.05.1983 | G-120-F2/3 24.03.1987 | G-120-F2/3 01.03.1996 | | | | |
| A41. | IK120II-G | Dry gases | | | | | G-120II-F4 01.02.2000 | D-120II-F5/7 01.01.2004 | D-120II-F5/7 01.08.2005 | |
| A54. | IK120-G-V009 | Dry gases | | | | G-120-F2/3 15.05.1997 | | | | |
| A41. | IK120-GI | Dry gases | | | G-120-F2/3 24.03.1987 | G-120-F2/3 01.03.1996 | | | | |
| A41. | IK120II-GI | Dry gases | | | | | G-120II-F4 01.02.2000 | D-120II-F5/7 01.01.2004 | D-120II-F5/7 01.08.2005 | |
| A41. | IK120-C | Natural gas | | | G-120-F2/3 24.03.1987 | G-120-F2/3 01.03.1996 | | | | |
| A41. | IK120II-C | Natural gas | | | | | G-120II-F4 01.02.2000 | G-120II-F5/7 01.01.2004 | G-120II-F5/7 01.08.2005 | |
| A41. | IK120II-GI-J | Dry gases | | | | | | | D-120II-F5/7 01.08.2005 | |
| A92. | BK12.2 | Breathing air | | | I-12.2-F2 12.08.1991 | A-12.2-F3/4 01.01.1996 | A-12.2-F3/4 01.04.1997 | | | |
| A92. | BK12.2 | Dry gases | | | I-12.2-F2 12.08.1991 | I-12.2-F3/4 01.01.1996 | I-12.2-F3/4 01.04.1997 | | | |
| A92. | BK12.2II | Industrial air | | | | | | I-12.2II-F5/6 01.02.2000 | I-12.2II-F5/6 01.01.2004 | I-12.2II-F7 01.08.2005 |
| A92. | BK12.2II | Dry gases | | | | | | I-12.2II-F5/6 01.02.2000 | I-12.2II-F5/6 01.01.2004 | I-12.2II-F7 01.08.2005 |
| A99. | BK12.3II | Dry gases | | I-12.3II-F1/2 01.04.2005 | I-12.3II-F1/2 01.06.2007 | I-12.3II-F3 01.09.2008 | | | | |
| A25. | IK12.4 | Industrial air - urgent IK is not BK! | | I-12.4-F1 01.01.1986 | I-12.4-F2/3 16.04.1987 | I-12.4-F2/3 01.03.1996 | | | | |

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|---|---|----|----|----|----|----|----|----|----|----|
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
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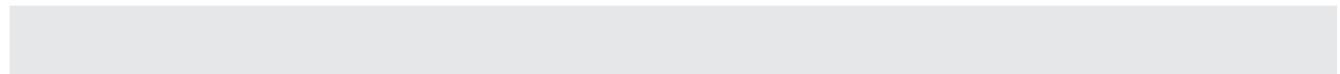


| Block / A-list | Block | Sector | Additional inf. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----------------|---------------------|--|-----------------|---|---|---|---|------------------------------|------------------------------|--------------------------|
| A90. | BK12.4 | Industrial booster - urgent BK is not IK! | | G-12.4-F1 01.10.1989 | | | | | | |
| A62. | IK12.4-G | Natural gas / Dry gases - urgent IK is not BK! | | I-12.4-F1 01.11.1986 | | | | | | |
| A25. | IK12.4II | Industrial air - urgent IK is not BK! | | | | | I-12.4II-F4 01.02.2000 | I-12.4II-F5 01.01.2004 | I-12.4II-F6/7 01.06.2004 | |
| A62. | IK12.4-G | Natural gas / Dry gases - urgent IK is not BK! | | I-12.4-F1 01.11.1986 | | | | | | |
| A62. | IK12.4II-G | Natural gas / Dry gases - urgent IK is not BK! | | | | | | | D-12.4II-F6 01.06.2004 | |
| A73. | IK12.4II-GI | Dry gases - urgent IK is not BK! | | | | | I-12.4II-F4 01.02.2000 | | | |
| A71. | IK12.4II-GI/ N2O | Dry gases - urgent IK is not BK! | | | | | I-12.4II-F4 01.02.2000 | | | |
| A17. | IK12.14 | Breathing air | | A-12.14II-F1/2 01.02.2000 | A-12.14II-F1/2 16.05.2002 | A-12.14II-F3 01.01.2004 | A-12.14II-F4/6 01.06.2004 | Not manufactured | A-12.14II-F4/6 01.11.2005 | |
| A17. | IK12.14 | Industrial air | | I-12.14II-F1/2 01.02.2000 | I-12.14II-F1/2 16.05.2002 | I-12.14II-F3 01.01.2004 | I-12.14II-F4/6 01.06.2004 | Not manufactured | I-12.14II-F4/6 01.11.2005 | |
| A17.-OX | IK12.14-OX | B-Trox | | | | | No kit - low quantity of blocks 01.06.2004 | Not manufactured | A-12.14OX4-F6 01.11.2005 | |
| A55. | IK12.14-GI | Dry gases | | D-12.14II-F1/2 01.02.2000 | D-12.14II-F3 15.05.2002 | D-12.14II-F4/6 01.01.2004 | Not manufactured | D-12.14II-F4/6 01.11.2005 | | |
| A2. | K14 | Breathing air | | No kit - low quantity of blocks 01.01.1974 | No kit - low quantity of blocks 01.01.1975 | No kit - low quantity of blocks 13.03.1976 | No kit - low quantity of blocks 10.01.1977 | A-14-F5/6 01.01.1978 | A-14-F5/6 01.01.1980 | A-14-F7/8 02.05.1985 |
| A2. | K14 | Industrial air | | No kit - low quantity of blocks 01.01.1974 | No kit - low quantity of blocks 01.01.1975 | No kit - low quantity of blocks 13.03.1976 | No kit - low quantity of blocks 10.01.1977 | A-14-F5/6 01.01.1978 | A-14-F5/6 01.01.1980 | I-14-F7/8 02.05.1985 |
| A42. | IK14-G | Dry gases | | | | | | | | I-14-F7/8 01.12.1987 |
| A2. | IK140 | Industrial air | | | | | | | | I-140-F7/8 02.05.1985 |
| A42. | IK140-GI | Dry gases | | | | | | | | |
| A2. | IK14.11 | Industrial air | | | | | | | | A-14.11-F7 07.12.1988 |
| A42. | IK14.11-G | Natural gas / Dry gases | | | | | | | | A-14.11-F7 17.10.1989 |

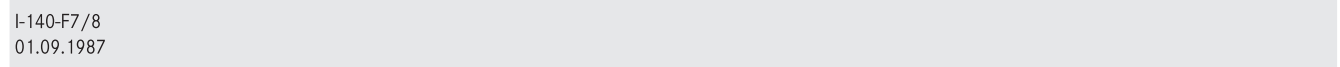
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|---|---|----|----|----|----|----|----|----|----|----|
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|----|----|----|----|----|----|----|----|----|



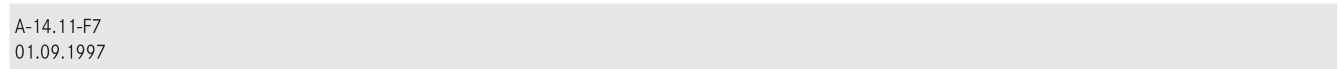
I-14-F7/8
01.09.1987



I-140-F7/8
01.09.1987



A-14.11-F7
01.09.1997



| Block / A-list | Block | Sector | Additional inf. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----------------|--------------|-------------------------------|-----------------|----------------------------|------------------------------|------------------------------|---------------------------|-------------------------|-------------------------|--------------------------|
| A42. | IK14.11-GI | Dry gases | | | | | | | | |
| A3. | K15 | Breathing air | | | | | A-15-F4/6 01.01.1975 | A-15-F4/6 01.01.1976 | A-15-F4/6 01.01.1980 | |
| A3. | K15 | Industrial air | | | | | A-15-F4/6 01.01.1975 | A-15-F4/6 01.01.1976 | A-15-F4/6 01.01.1980 | |
| A18. | IK15.1II | Breathing air | | | | | | | | |
| A18. | IK15.1II | Industrial air | | | | | | | | |
| A18.-OX | IK15.1-OX | B-Trox | | | | | | | | |
| A56. | IK15.1II-GI | Dry gases | | | | | | | | |
| A43. | IK15.1-G/-C | Natural gas | | | | | | | | |
| A56. | IK15.1II-G | Natural gas / Dry gases | | | | | | | | |
| A56. | IK15.1II-C | Natural gas | | | | | | | | |
| A19. | IK15.11II | Breathing air | | A-15.11II-F1 12.03.2002 | A-15.11II-F2/3 01.10.2006 | A-15.11II-F2/3 01.06.2012 | | | | |
| A19. | IK15.11II | Industrial air | | I-15.11II-F1 12.03.2002 | I-15.11II-F2/3 01.10.2006 | I-15.11II-F2/3 01.06.2012 | | | | |
| A57. | IK15.11II-GI | Dry gases | | D-15.11II-F1 12.03.2002 | D-15.11II-F2/3 01.10.2006 | D-15.11II-F2/3 01.06.2012 | | | | |
| A59. | IK15.2II-C | Natural gas | | G-15.2II-F1 01.10.2001 | G-15.2II-F2 01.10.2006 | G-15.2II-F3 01.06.2012 | | | | |
| A96. | BK15.3II | Industrial air / dry gases | | I-15.3II-F1 01.03.2002 | I-15.3II-F2/3 01.10.2006 | I-15.3II-F2/3 01.10.2007 | I-15.3II-F4 01.06.2012 | | | |
| A97. | BK15.4II-C | Natural gas / dry gases | | G-15.4II-F1 01.03.2002 | G-15.4II-F2 01.10.2006 | G-15.4II-F3 01.06.2012 | | | | |
| A3. | K150 | Breathing air | | | | | | | | A-150-F7/9 11.05.1982 |
| A3. | K150 | Industrial air | | | | | | | | I-150-F7/9 11.05.1982 |
| A3. | K150II | Breathing air | | | | | | | | |
| A3. | K150II | Industrial air | | | | | | | | |
| A43. | IK150-G | Natural gas | | | | | | | | |
| A43. | IK150-G | Dry gases | | | | | | | | I-150-F7/9 11.05.1982 |
| A43. | IK150-GI | Dry gases | | | | | | | | |

| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|----|----|----|----|----|----|----|----|----|
|---|---|----|----|----|----|----|----|----|----|----|

A-14.11-F7
01.09.1997

A-15.11I-F11 12.03.2002 A-15.11IF12/13 01.10.2006 A-15.11IF12/13 01.06.2012

I-15.11I-F11 12.03.2002 I-15.11IF12/13 01.10.2006 I-15.11IF12/13 01.06.2012

A-15.11I-OX4-F11 12.03.2002 A-15.10XF12/13 01.10.2006 A-15.10XF12/13 01.06.2012

D-15.11I-F11 12.03.2002 D-15.11IF12/13 01.10.2006 D-15.11IF12/13 01.06.2012

No kit - low quantity of blocks 01.10.1992 G-15.1-F10 01.07.1997 Continued IK15.1-G/-C=A56

G-15.11IF11/13 01.10.2001 G-15.11IF11/13 01.10.2006 G-15.11IF11/13 01.06.2012

G-15.11IF11/13 01.10.2001 G-15.11IF11/13 01.10.2006 G-15.11IF11/13 01.06.2012

A-150-F7/9 06.04.1990 A-150-F7/9 01.07.1997

I-150-F7/9 06.04.1990 I-150-F7/9 01.07.1997

A-150II-F10 01.01.2001 A-150II-F11 01.10.2006 A-150II-F12 01.06.2012

I-150II-F10 01.01.2001 I-150II-F11 01.10.2006 I-150II-F12 01.06.2012

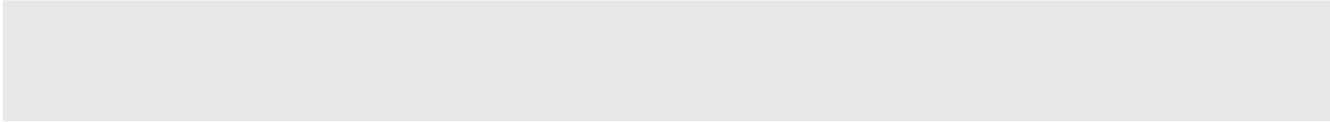
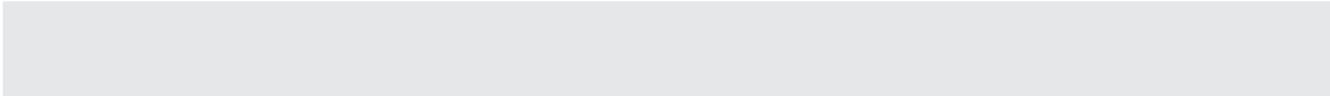
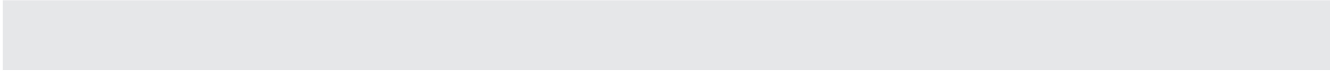
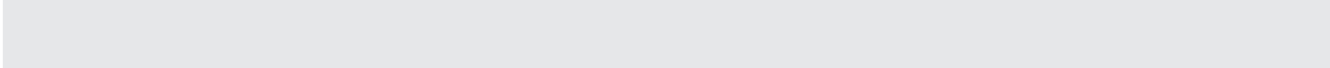
G-150-F9 1992

I-150-F7/9 06.04.1990

I-150-F7/9 01.10.1992 Continued IK150 GI =A58

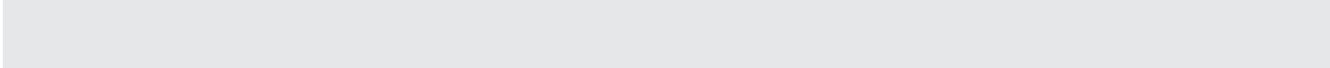
| Block / A-list | Block | Sector | Additional inf. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----------------|-------------|---------------------------------|-----------------|---|---------------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| A58. | IK150II-GI | Dry gases | | | | | | | | |
| A85. | BK150-CNG | No kit - low quantity of blocks | | No kit - low quantity of blocks 15.08.1986 | | | | | | |
| A39. | IK15.7 | Industrial air | | I-15.7-F1 01.07.2012 | | | | | | |
| A117. | IK15.7-G | Natural gas | | G-15.7-F1 01.07.2012 | | | | | | |
| A117. | IK15.7-GI | Dry gases | | D-15.7-F1 01.07.2012 | | | | | | |
| A81. | BK15.9 | No kit - low quantity of blocks | | No kit - low quantity of blocks 01.10.1985 | | | | | | |
| A26. | IK17.0 | No kit - low quantity of blocks | | I-17-F1/2 15.11.1986 | I-17-F1/2 13.12.1989 | | | | | |
| A63. | IK17.0-G | No kit - low quantity of blocks | | I-17-F1/2 15.11.1986 | | | | | | |
| A86. | BK17.2 | No kit - low quantity of blocks | | No kit - low quantity of blocks 22.06.1987 | | | | | | |
| A15. | IK18.1 | Breathing air | | A-18.1-F1 25.01.1990 | A-18.1-F2/3 01.07.1997 | A-18.1-F2/3 01.12.1998 | | | | |
| A15. | IK18.1II | Breathing air | | | | | A-18.1II-F4/5 01.10.2001 | A-18.1II-F4/5 01.04.2005 | A-18.1II-F6/7 01.10.2006 | A-18.1II-F6/7 01.04.2011 |
| A15. | IK18.1 | Industrial air | | I-18.1-F1 25.01.1990 | I-18.1-F2/3 01.07.1997 | I-18.1-F2/3 01.12.1998 | | | | |
| A15. | IK18.1II | Industrial air | | | | | I-18.1II-F4/5 01.10.2001 | I-18.1II-F4/5 01.04.2005 | I-18.1II-F6/7 01.10.2006 | I-18.1II-F6/7 01.04.2011 |
| A48. | IK18.1-G | Natural gas / Dry gases | | I-18.1-F1 25.01.1990 | I-18.1-F2/3 01.07.1997 | I-18.1-F2/3 01.12.1998 | | | | |
| A48. | IK18.1-GI | Dry gases | | D-18.1-F1 25.01.1990 | D-18.1-F2/3 01.07.1997 | D-18.1-F2/3 01.12.1998 | | | | |
| A75. | IK18.1II-G | Natural gas / Dry gases | | | | | G-18.1II-F4/5 01.10.2001 | G-18.1II-F4/5 01.04.2005 | G-18.1II-F6/7 01.10.2006 | G-18.1II-F6/7 01.04.2011 |
| A74. | IK18.1II-GI | Dry gases | | | | | D-18.1II-F4/5 01.10.2001 | D-18.1II-F4/5 01.04.2005 | D-18.1II-F6/7 01.10.2006 | D-18.1II-F6/7 01.04.2011 |
| A48. | IK18.1-C | Natural gas | | I-18.1-F1 25.01.1990 | I-18.1-F2/3 01.07.1997 | G-18.1-F3 01.12.1998 | | | | |
| A20. (A3) | K180 | Breathing air | | | A-180-F2 02.06.1982 | A-180-F3/4 06.04.1990 | A-180-F3/4 01.07.1997 | | | |
| A20. (A3) | K180 | Industrial air | | | I-180-F2 02.06..1982 | I-180-F3/4 06.04.1990 | I-180-F3/4 01.07.1997 | | | |
| A20. | K180II | Breathing air | | | | | | A-180II-F5/6 01.10.2001 | A-180II-F5/6 01.10.2006 | A-180II-F7 01.02.2012 |

| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|------------------------------|------------------------------|------------------------------|----|----|----|----|----|----|
| | | D-150II-F10/12 15.02.2002 | D-150II-F10/12 01.10.2006 | D-150II-F10/12 01.06.2012 | | | | | | |



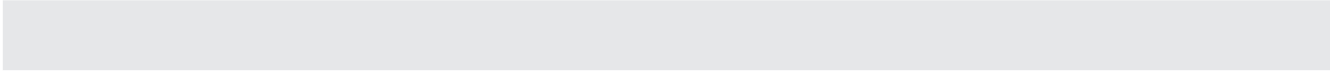
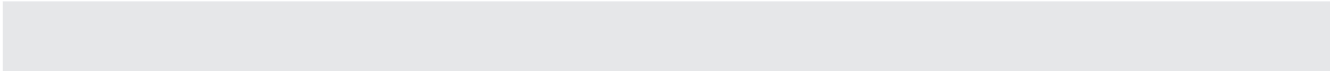
A-18.1II-F8
01.06.2012

I-18.1II-F8
01.06.2012



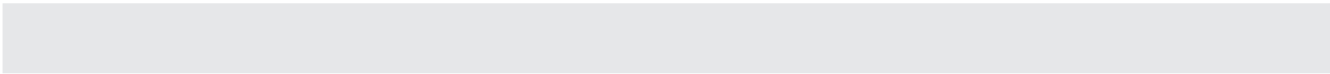
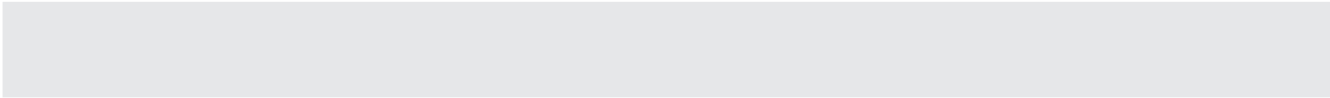
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01.06.2012

D-18.1II-F8abc1
01.06.2012

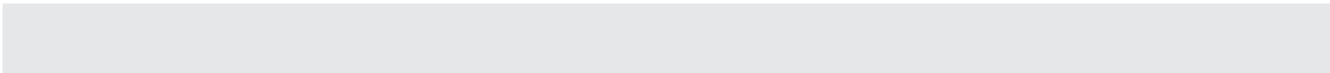
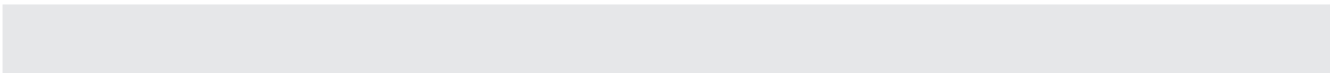
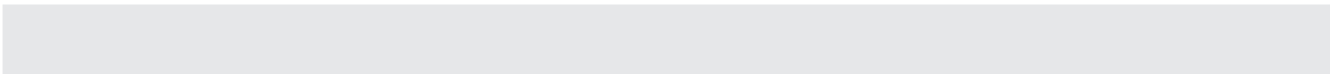
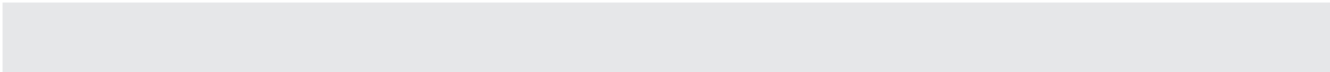
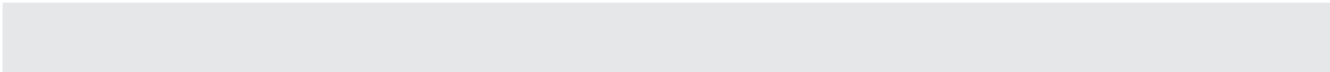
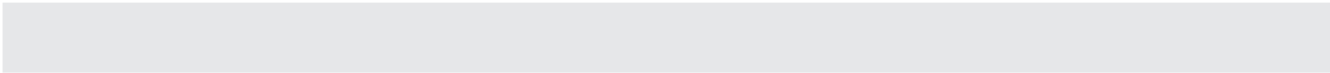
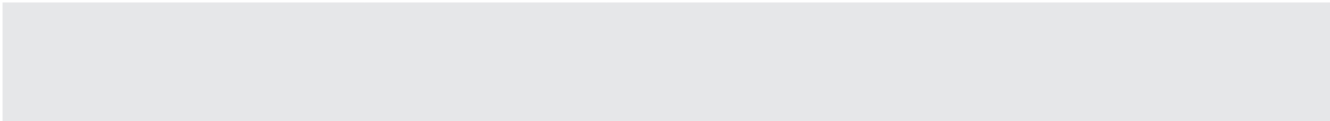


| Block / A-list | Block | Sector | Additional inf. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----------------|----------------|---------------------------------|-----------------|---|---|---------------------------|---|---|---|---|
| A20. | K180II | Industrial air | | | | | | I-180II-F5/6 01.10.2001 | I-180II-F5/6 01.10.2006 | I-180II-F7 01.02.2012 |
| A43. | IK180-GI | Dry gases | | | I-180-F2 02.06..1982 | I-180-F3/4 06.04.1990 | I-180-F3/4 01.10.1992 | Continued IK180 GI= A60 | | |
| A60. | IK180II-GI | Dry gases | | | | | | D-180II-F5/6 01.10.2001 | D-180II-F5/6 01.10.2006 | D-180II-F7 01.02.2012 |
| A43. | IK180-G | Natural gas | | | | I-180-F3/4 06.04.1990 | | | | |
| A4. | K200 | No kit - low quantity of blocks | | | | | No kit - low quantity of blocks 04.10.1982 | | | |
| A5. | K21 | Industrial air | | No kit - low quantity of blocks 16.03.1977 | No kit - low quantity of blocks 01.01.1978 | Not manufactured | No kit - low quantity of blocks 15.02.1980 | No kit - low quantity of blocks 05.05.1981 | No kit - low quantity of blocks 05.05.1981 | No kit - low quantity of blocks 05.10.1981 |
| A44. | IK21-G | Natural gas | | | | | | No kit - low quantity of blocks 05.10.1981 | G-21.0-F6/7 01.05.1985 | |
| A21. | IK21.4 | No kit - low quantity of blocks | | No kit - low quantity of blocks 16.07.1985 | | | | | | |
| A6. | K22.0 | Breathing air | | No kit - low quantity of blocks 28.0.01.1983 | I-22.0-F2/3 25.01.1985 | I-22.0-F2/3 01.03.1986 | A-22.0-F4/5 09.01.1992 | A-22.0-F4/5 01.01.1995 | A-22.0-F6 22.04.2015 | |
| A6. | K22.0 | Industrial air | | | I-22.0-F2/3 25.01.1985 | I-22.0-F2/3 01.03.1986 | I-22.0-F4/5 09.01.1992 | I-22.0-F4/5 01.01.1995 | I-22.0-F6 22.04.2015 | |
| | K22.0-420 | Industrial air | 420 Bar version | I-22.0-420-F1 22.04.2015 | | | | | | |
| A45. | IK22.0-G | Natural gas / Dry gases | | | D-22.0-F2/3 25.01.1985 | D-22.0-F2/3 01.03.1986 | D-22.0-F4/5 01.01.1992 | D-22.0-F4/5 01.01.1995 | D-22.0-F6 22.04.2015 | |
| A45. | IK22.0-C | Natural gas | | | | G-22.0-F2/3 01.03.1986 | G-22.0-F4/5 01.01.1992 | G-22.0-F4/5 1.01.1995 | G-22.0-F6 22.04.2015 | |
| A45. | IK22.0-GI | Dry gases | | | | | D-22.0-F4/5 01.01.1992 | D-22.0-F4/5 01.01.1995 | D-22.0-F6 22.04.2015 | |
| A29. | IK22.2 | Breathing air | | A-22.2-F1 21.07.1992 | A-22.2-F2 01.01.1995 | | | | | |
| A22. | IK22.5 | Industrial air | | I-22.5-F1/2 18.01.1985 | I-22.5-F1/2 09.01-1992 | I-22.5-F3 01.01.1995 | | | | |
| A61. | IK22.5-G | Natural gas / dry gases | | I-22.5-F1/2 18.01.1985 | I-22.5-F1/2 09.01-1992 | I-22.5-F3 26.10.1994 | | | | |
| A72. | IK22.5-GI/ N2O | Dry gases | | | | I-22.5-F3 26.10.1994 | | | | |
| A89. | BK22.6 | No kit - low quantity of blocks | | No kit - low quantity of blocks 01.07.1989 | | | | | | |
| A101. | BK22.9-C | Natural gas | | G-22.9-F01 01.03.2007 | | | | | | |

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|---|---|----|----|----|----|----|----|----|----|----|
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
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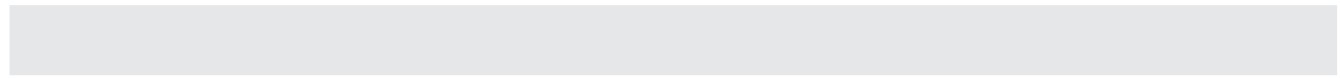
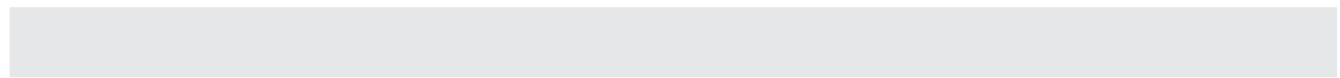
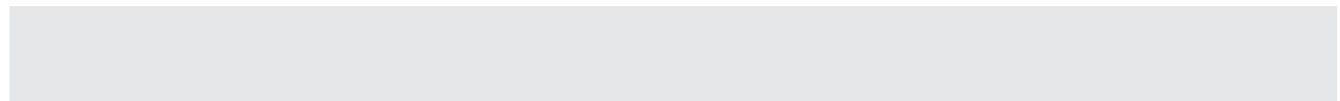
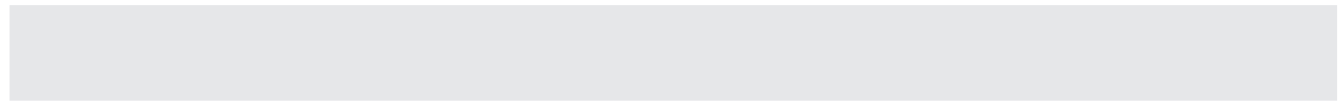
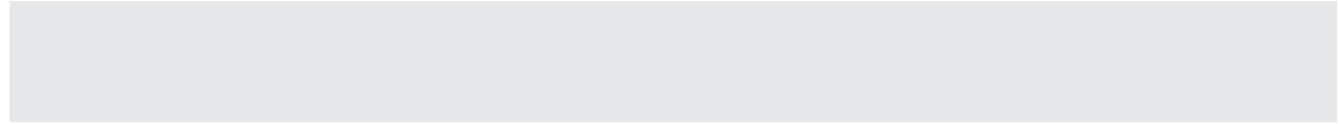


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|-------------------------|-------------------------|
| I-21.0-F8 17.01.1984 | I-21.0-F8 14.07.1987 |
|-------------------------|-------------------------|



| Block / A-list | Block | Sector | Additional inf. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----------------|-------------|---|-----------------|---|---|-----------------------------------|---|---|---|----------------------------|
| A93. | BK22.10-C | Natural gas air-cooled and rare water-cooled possible | | G-22.10-F1 01.12.1995 serial no. required! | G-22.10-F2 01.09.1997 serial no. required! | | | | | |
| A98. | BK22.10-C | Natural gas water-cooled | | G-22.10-W-F1 01.07.2002 serial no. required! | G-22.10-W-F2 01.01-2006 serial no. required! | | | | | |
| A93. | BK22.11-C | Natural gas | | No kit - low quantity of blocks 01.12.1995 | G-22.11-F2. abc1 01.09.1997 | G-22.11-F3. abc1 01.04.2015 | | | | |
| A98. | BK22.11-C | Natural gas water-cooled | | | G-22.11-F2. abc1 01.01.2006 | G-22.11-F3. abc1 01.04.2015 | | | | |
| A93. | BK22.12-C | Natural gas | | G-22.12-F1/2 01.12.1995 | G-22.12-F1/2 01.09.1997 | G-22.12-F3. abc1 01.04.2015 | | | | |
| A98. | BK22.12-C | Natural gas water-cooled | | | G-22.12-F1/2 01.01.2006 | G-22.12-F3. abc1 01.04.2015 | | | | |
| A93.-GI | BK22.12-GI | Dry gases water-cooled | | | G-22.12-F1/2 01.06.2008 | G-22.12-F3. abc1 01.04.2015 | | | | |
| A93. | BK22.13-C | Natural gas | | G-22.13-F1/2 01.12.1995 | G-22.13-F1/2 01.09.1997 | | | | | |
| A98. | BK22.13-C | Natural gas water-cooled | | | G-22.13-F1/2 01.01.2006 | | | | | |
| A93. | BK22.14-C | Natural gas | | G-22.14-F1/2 1.12.1995 | G-22.14-F1/2 01.08.1997 | | | | | |
| A5. | K23.0 | Breathing air - old design | | | | | | | | |
| A5. | K23.0 | Industrial air - old design | | | | | | | | |
| A5. | K23.0-W | Industrial air water-cooled | | | | | | | | |
| A5. | K23.0-W | Industrial air water-cooled new design modular | | | | | | | | |
| A5.-W | K23.0-W-V/H | Industrial air water-cooled new design | | | | | | | | |
| A5.-L | K23.0-L-V/H | Industrial air air-cooled new design modular | | | | | | | | |
| A44. | IK23.0-G | Natural gas / Dry gases | | | | | | | | G-23.0-F7/12 02.01.1989 |

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|---|---|----|----|----|----|----|----|----|----|----|
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|----|----|----|----|----|----|----|----|----|



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|---------------|---------------|---------------|---------------|---------------|--|
| A-23.0-F11/13 | A-23.0-F11/13 | A-23.0-F11/13 | A-23.0-F11/13 | A-23.0-F11/13 | A-23.0-F14 |
| 07.06.1989 | 02.04.1990 | 20.01.1992 | 26.10.1993 | 31.01.1993 | 01.04.2015 - Attention old design! |

| | | | | | |
|---------------|---------------|---------------|---------------|---------------|--|
| I-23.0-F11/13 | I-23.0-F11/13 | I-23.0-F11/13 | I-23.0-F11/13 | I-23.0-F11/13 | I-23.0-F14 |
| 07.06.1989 | 02.04.1990 | 20.01.1992 | 26.10.1993 | 31.01.1993 | 01.04.2015 - Attention old design! |

I-23.0-W-F14
01.01.2005

I-23.0-
W-F15/16
01.10.2009

I-23.0-
W-F15/16
01.03.2010

I-23.0-L-F15
01.12.2011

G-23.0-F7/12
20.01.1992

| Block / A-list | Block | Sector | Additional inf. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----------------|----------------------|---|-----------------|---------------------------|------------------------------------|---------------------------|---------------------------|-------------------------|-------------------------|------------------------------|
| A44. | IK23.0-C | Natural gas | | | | | | | | G-23.0-F7 / 12 02.01.1989 |
| A44.-C-L | IK23.0-C-L | Natural gas air-cooled new design | | | | | | | | |
| A44.-C-W | IK23.0-C-W | Natural gas water-cooled new design | | | | | | | | |
| A44. | IK23.0-GI | Dry gases - old design | | | | | | | | |
| A44.-GI-W | IK23.0-GI-W | Dry gases watercooled new design | | | | | | | | |
| A44.-GI-L | IK23.0-GI | Dry gases air- cooled new design | | | | | | | | |
| A52. | IK23.1-G | Natural gas / Dry gases - old design | | | | | | | | |
| A52. | IK23.1-C | Natural gas - old design | | | | | | | | |
| A52. | IK23.1-C | Natural gas water-cooled | | | | | | | | |
| A77. | IK23.2 | Industrial air water-cooled | | I-23.2-W-F2 01.04.2008 | | | | | | |
| A77. | IK23.2-W- V/-H | Industrial air water-cooled new design modular | | | I-23.2-W-F2 01.03.2010 | | | | | |
| A77. | IK23.2-GI-W- V/-H | Dry gases water-cooled new design modular | | | D-23.2-W-F2 01.03.2010 | | | | | |
| A77. | IK23.2-G-W- V/-H | Natural / dry gases water-cooled new design modular | | | D-23.2-W-F2 01.03.2010 | | | | | |
| A77.-L | IK23.2-G-L- V/-H | Natural / dry gases air-cooled new design modular | | D-23.2-L-F1 01.04.2008 | | | | | | |
| A78. | IK23.2-C-W- V/-H | Natural gas water-cooled new design modular | | G-23.2-F01 01.04.2008 | G-23.2-W- F2-abcd1 01.03.210 | | | | | |
| A21. | IK23.4 | Industrial air | | | I-23.4-F2/4 28.10.1987 | I-23.4-F2/4 20.01.1992 | I-23.4-F2/4 31.01.1994 | I-23.4-F5 01.01.1995 | I-23.4-F6 01.03.2013 | |
| A64. | IK23.4-G | Natural gas / Dry gases | | | D-23.4-F2/4 28.10.1987 | D-23.4-F2/4 20.01.1992 | D-23.4-F2/4 31.01.1994 | D-23.4-F5 01.01.1995 | | |
| A64. | IK23.4-GI | Dry gases | | | | | | D-23.4-F5 01.01.1995 | | |

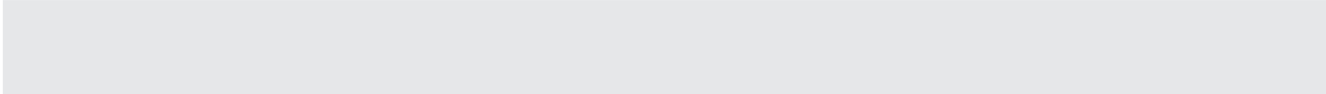
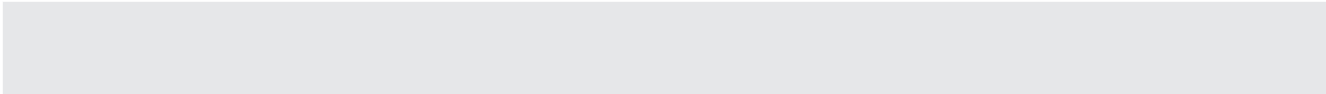
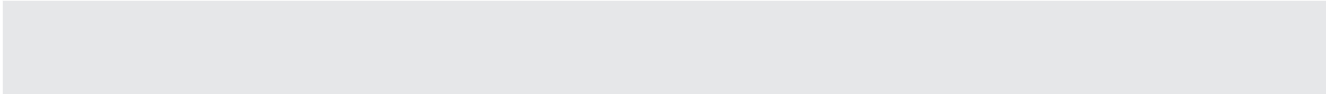
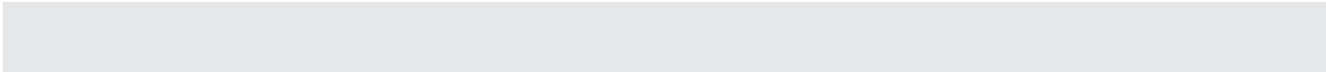
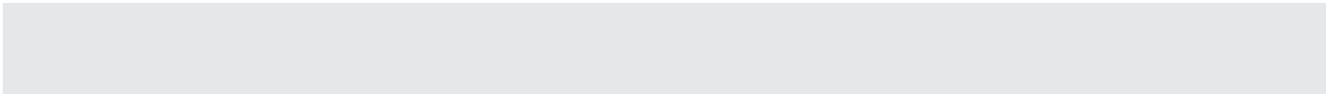
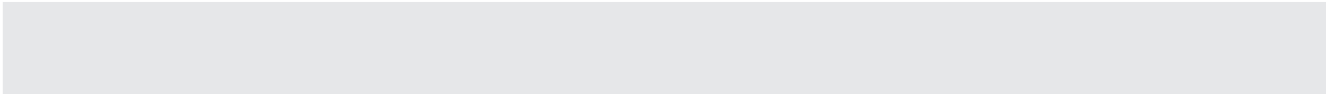
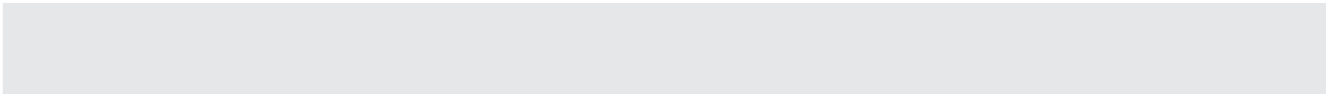
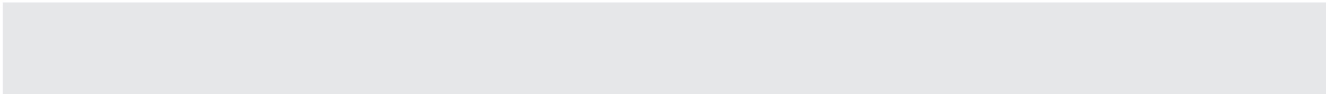
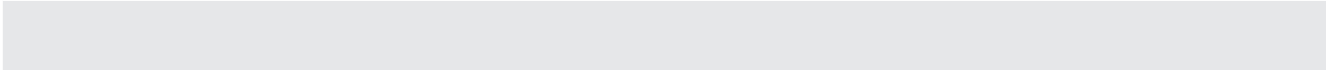
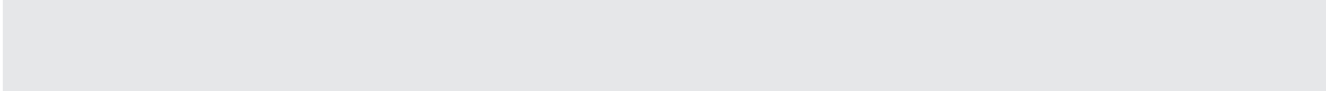
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|----------------------------|---|--------------------------|--------------------------|--|----|-----------------------------|-------------------------------|--|-------------------------------|----|
| G-23.0-F7/12 20.01.1992 | | | | | | | | | | |
| | | | | | | | G-23.0-F15 01.02.2009 | | | |
| | | | | | | | | G-23.0-W-F16-abcd1 01.03.2010 | | |
| | | | | I-23.0-F11/13 26.10.1993 | | I-23.0-F11/13 31.01.1994 | | D-23.0-F14 01.04.2015 - Attention old design! | | |
| | | | | | | | D-23.0-W-F15/16 01.02.2009 | | D-23.0-W-F15/16 01.03.2010 | |
| | | | | | | | D-23.0-L-F15 01.02.2009 | | | |
| G-23.1-F10 01.10.1993 | | G-23.1-F10 31.01.1994 | | G-23.1-L-F114 01.04.2015 attention old design | | | | | | |
| G-23.1-F10 01.10.1993 | | G-23.1-F10 31.01.1994 | | G-23.1-L-F114 01.04.2015 attention old design | | | | | | |
| | | | G-23.1-F11 01.06.2005 | | | | | | | |
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| Block / A-list | Block | Sector | Additional inf. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----------------|-------------------------|---|-----------------|--------------------------------------|--------------------------------------|--------------------------------------|---|---|---|---|
| A114. | BK23.5-GI | Dry gases water-cooled | Swagelock | D-23.5-F1 01.12.2011 | | | | | | |
| A110.-W | BK23.7-C/- W-V/-H | Natural gas water-cooled | | G-23.7-F1 01.07.2010 | | | | | | |
| A110.-W | BK23.7-GI/- G-W-V/-H | Dry gases water-cooled | | D-23.7-W-F1 01.07.2010 | | | | | | |
| A-110-L | BK23.7-GI/- G-L-V/-H | Dry gases water-cooled | | D-23.7-L-F1 01.07.2010 | | | | | | |
| A110.-L | BK23.7-C/-L- V/-H | Natural gas air-cooled | | G-23.7-F1 01.07.2010 | | | | | | |
| | IK23.8 | Industrial air | | I-23.8-F1/2 12.2009 | I-23.8-F1/2 | | | | | |
| A109.-W | BK23.8-C-W- V/-H | Natural gas water-cooled | | G-23.8- W-F1/2 01.12.2009 | G-23.8- W-F1/2 01.03.2010 | | | | | |
| A104. | BK23.10-C | Natural gas water-cooled | | G-23.10- F1/3-abcd1 01.01.2008 | | | | | | |
| A104.-W | BK23.10-C-W- V/-H | Natural gas water-cooled modular | | | G-23.10- F1/3-abcd1 01.12.2009 | G-23.10- F1/3-abcd1 01.03.2010 | | | | |
| A104. | BK23.10-G | Natural / Dry gases water-cooled modular | | D-23.10-W- F1-abcd1 01.01.2008 | | | | | | |
| A104.-W | BK23.10-G-W- V/-H | Natural / Dry gases water-cooled modular | | | D-23.10-W- F2-abcd1 01.12.2009 | D-23.10-W- F3-abcd1 01.03.2010 | | | | |
| A104.1-V003 | BK23.10-C- F01-V003 | Natural gas air-cooled | | G-23.10- F1/3-abcd1 01.01.2008 | | | | | | |
| | BK23.10-GI- F01-V099 | Dry gases air-cooled | | D-23.10-L-F1 01.09.2009 | | | | | | |
| A104. | BK23.10-GI | Dry gases water-cooled | | D-23.10-W- F1-abcd1 01.01.2008 | | | | | | |
| A104.-W | BK23.10-GI- W-V/-H | Dry gases water-cooled modular | | | D-23.10-W- F2-abcd1 01.12.2009 | D-23.10-W- F3-abcd1 01.03.2010 | | | | |
| A105. | BK23.12-C | Natural gas water-cooled | | G-23.12-W-F1 01.01.2008 | | | | | | |
| A105.-W | BK23.12-C-W- V/-H | Natural gas water-cooled modular | | | G-23.12-W-F2 01.02.2009 | G-23.12-W-F3 01.03.2010 | | | | |
| A105. | BK23.12-G | Natural / Dry gases water-cooled | | G-23.12-W-F1 01.01.2008 | | | | | | |
| A105.-W | BK23.12-G-W- V/-H | Natural / Dry gases water-cooled modular | | | G-23.12-W-F2 01.12.2009 | G-23.12-W-F3 01.03.2010 | | | | |
| A105. | BK23.12-GI | Dry gases water-cooled | | D-23.12-W-F1 01.01.2008 | | | | | | |

| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
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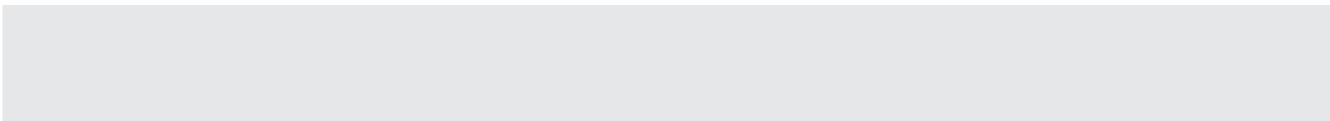
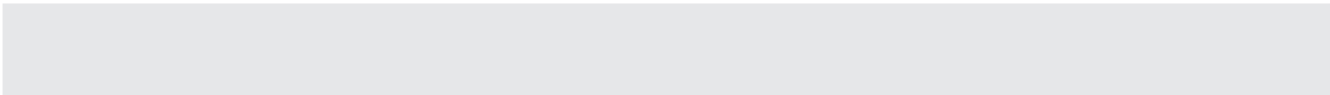
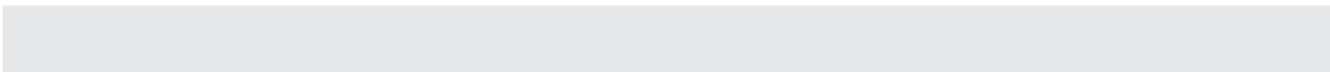
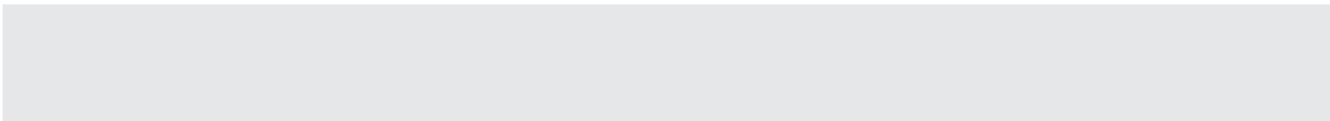
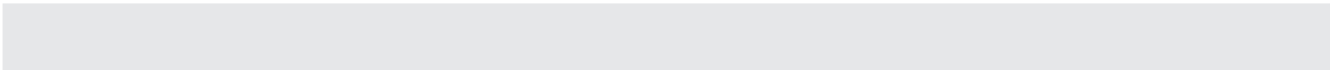
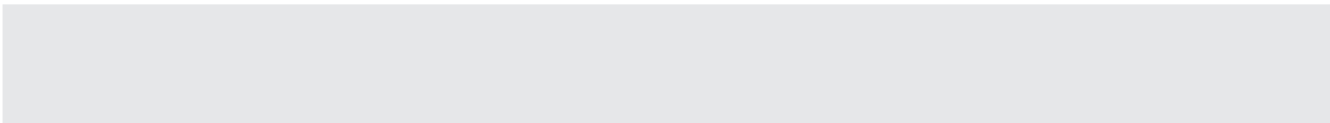
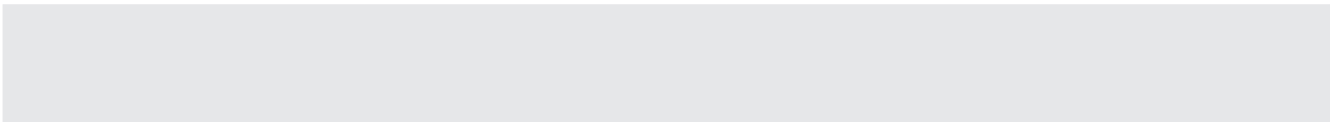
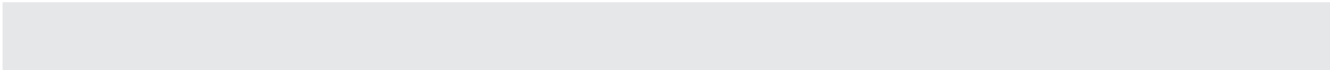
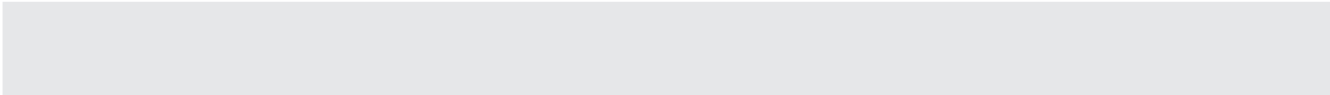
| Block / A-list | Block | Sector | Additional inf. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----------------|-------------------|---|-----------------|--|--|--------------------------------------|---|---|---|---|
| A105.-W | BK23.12-GI-W-V/-H | Dry gases water-cooled modular | | | D-23.12-W-F2 01.12.2009 | D-23.12-W-F3 01.03.2010 | | | | |
| A105.-L | BK23.12-GH-L-V/-H | Dry gases air-cooled modular | Swagelock | D-23.12-L-F1 01.03.2012 | | | | | | |
| A106. | BK23.13-C | Natural gas water-cooled | | G-23.13-F1/3 01.01.2008 | | | | | | |
| A106.-W | BK23.13-C-W-V/-H | Natural gas water-cooled modular | | | G-23.13- F1/3-abcd1 01.12.2009 | G-23.13- F1/3-abcd1 01.03.2010 | | | | |
| A106. | BK23.13-G | Natural / Dry gases water-cooled | | D-23.13- W-F1/3 01.01.2008 | | | | | | |
| A106.-W | BK23.13-G-W-V/-H | Natural / Dry gases water-cooled modular | | | D-23.13- W-F1/3 01.12.2009 | D-23.13- W-F1/3 01.03.2010 | | | | |
| A106. | BK23.13-GI | Dry gases water-cooled | | D-23.13- W-F1/3 01.01.2008 | | | | | | |
| A106.-W | BK23.13-GI-W-V/-H | Dry gases water-cooled modular | | | D-23.13- W-F1/3 01.12.2009 | D-23.13- W-F1/3 01.03.2010 | | | | |
| A107.-W | BK23.14-C-W | Natural gas water-cooled | | G-23.14- 1/2-abcd1 01.12.2009 | G-23.14- F1/2-abcd1 01.03.2010 | | | | | |
| A107. | BK23.14-G | Natural / Dry gases | | D-23.14-W- F1/2-abcd1 01.12.2009 | D-23.14-W- F1/2-abcd1 01.03.2010 | | | | | |
| A107. | BK23.14-GI | Dry gases | | D-23.14-W- F1/2-abcd1 01.12.2009 | D-23.14-W- F1/2-abcd1 01.03.2010 | | | | | |
| A76. | IK24.0-C | Natural gas water-cooled | | G-24.0- W-F1/3 01.05.2006 | G-24.0- W-F1/3 01.04.2008 | G-24.0- W-F1/3 15.10.2012 | | | | |
| A123.1s | IK24.0 | Industrial air | | I-24.0-W-F1 01.10.2013 | | | | | | |
| A37. | IK24.4 | Watercooled | | I-24.4- W-F1/2 01.09.2006 | I-24.4- W-F1/2 01.04.2008 | | | | | |
| A100. | BK24.11-C | Natural gas air-cooled / water-cooled | | G-24.11- F1/2-abcd1 01.01.2006 | | | | | | |
| A100. | BK24.11-C-W/L | Natural gas air-cooled / water-cooled | | | G-24.11-L-F2 01.04.2008 | | | | | |
| A100.-W | BK24.11-C-W | Natural gas water-cooled | | G-24.11-W- F1-abcd1 01.01.2006 | | G-24.11-W- F3-abcd1 01.03.2010 | | | | |
| A100.-L | BK24.11-C-L | Natural gas air-cooled | | G-24.11-L-F1 01.01.2006 | | | | | | |
| A116. | BK24.12-C | Natural gas water-cooled | Swagelock | | | G-24.12-W- F3-abcd1 15.10.2012 | | | | |

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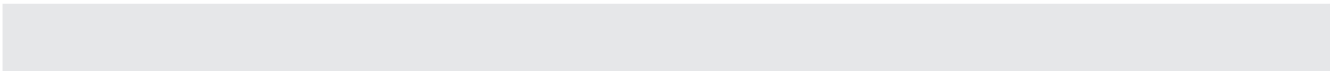
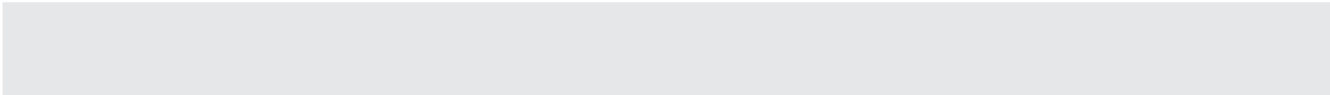
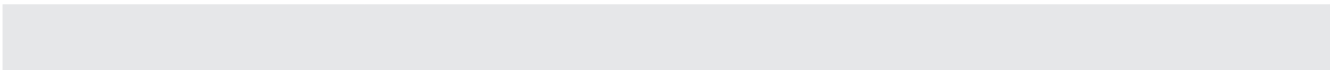
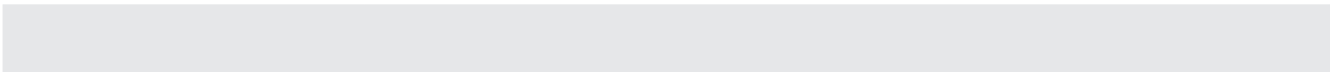
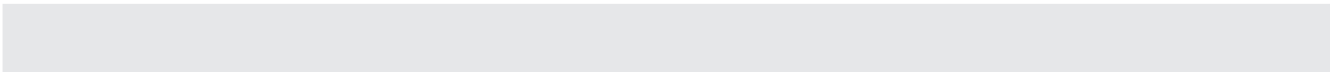
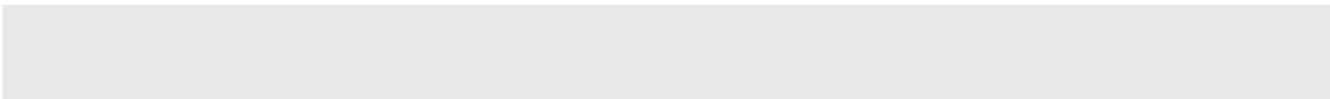
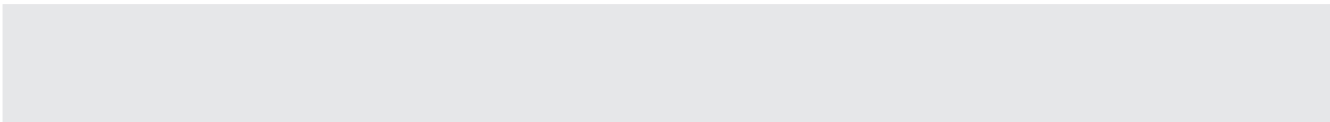
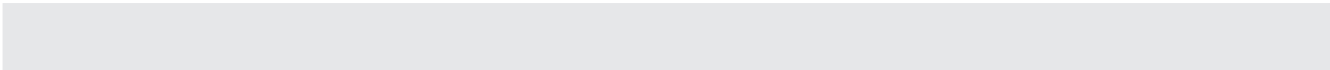
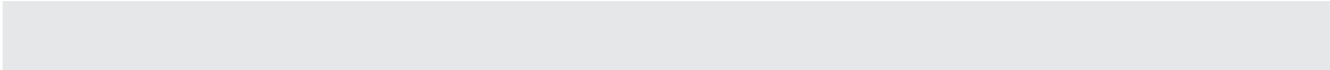
| Block / A-list | Block | Sector | Additional inf. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----------------|----------------|-------------------------------------|-----------------|---|---|---------------------------|---------------------------|-------------------------|-------------------------|---|
| A121 | BK24.12-GI | Dry gases water-cooled | | D-24.12-W-F1-abcd1 01.01.2013 | | | | | | |
| A102. | BK24.19-V001 | Bin block | | Kit not yet created 01.08.2007 | Kit not yet created 01.04.2008 | | | | | |
| A103. | BK24.20-V001 | Bin block | | I-24.20.F1/2 01.08.2007 | I-24.20.F1/2 01.04.2008 | | | | | |
| | BK24.20-C-V001 | Natural gas water-cooled | | G-24.20-W-F1 01.01.2013 | | | | | | |
| A119 | BK24.20-GI | Dry gases water-cooled | | D-24.20-W-F1 01.01.2013 | | | | | | |
| A7. | K25.0 | Industrial air | | No kit - low quantity of blocks 01.10.1982 | I-25.0-F2/4 21.07.1983 | I-25.0-F2/4 20.06.1986 | I-25.0-F2/4 03.02.1994 | I-25.0-F5 01.01.1996 | I-25.0-F6 01.07.2011 | |
| A46. | IK25.0-G | Natural / Dry gases | | No kit - low quantity of blocks 01.10.1982 | I-25.0-F2/4 21.07.1983 | I-25.0-F2/4 01.10.1989 | I-25.0-F2/4 03.02.1994 | | | |
| A46. | IK25.0-C | Natural gas | | No kit - low quantity of blocks 01.10.1982 | I-25.0-F2/4 21.07.1983 | I-25.0-F2/4 01.10.1989 | I-25.0-F2/4 01.01.1996 | G-25.0-F5 01.01.1996 | G-25.0-F6 01.07.2004 | |
| A46. | IK25.0-GI | Dry gases | | | | | | D-25.0-F5 01.01.1996 | | |
| A23. | IK25.4 | Industrial air | | I-25.4-F1/2 09.07.1984 | I-25.4-F1/2 02.02.1994 | I-25.4-F3 01.06.2012 | | | | |
| A65. | IK25.4-GI | Dry gases | | D-25.4-F1/2 09.07.1984 | D-25.4-F1/2 01.02.1994 | | | | | |
| A24. | IK25.5 | No kit - low quantity of blocks | | No kit - low quantity of blocks 14.01.1985 | No kit - low quantity of blocks 02.02.1994 | | | | | |
| A66. | IK25.5-GI | No kit - low quantity of blocks | | No kit - low quantity of blocks 14.01.1985 | No kit - low quantity of blocks 01.02-1994 | | | | | |
| A16. | IK25.9 | Industrial air | | I-25.9-F1/3 18.11.1991 | I-25.9-F1/3 03.02.1994 | I-25.9-F1/3 20.02.2002 | | | | |
| A49. | IK25.9-G | Natural / Dry gases | | I-25.9-F1/3 01.10.1991 | I-25.9-F1/3 03.02.1994 | I-25.9-F1/3 20.02.2002 | | | | |
| A49.-G | IK25.9-G | Natural / Dry gases water-cooled | | | | | D-25.9-W-F4 01.01.2006 | | | |
| A49. | IK25.9-C | Natural gas | | | | G-25.9-L-F3 21.03.2002 | | | | |
| A87. | BK25.12 | No kit - low quantity of blocks | | No kit - low quantity of blocks 01.11.1988 | | | | | | |

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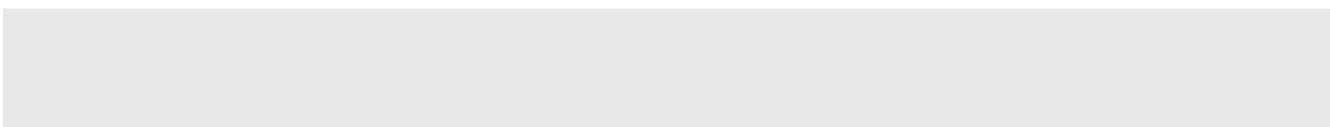
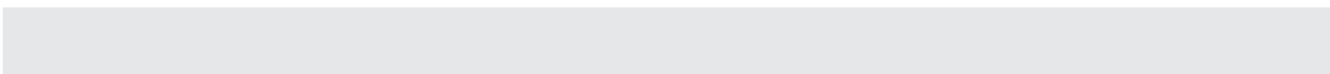
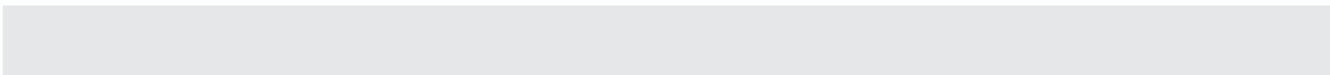
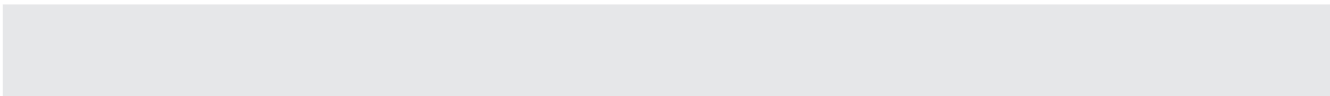
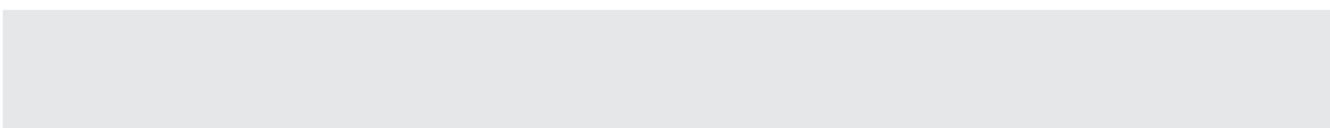
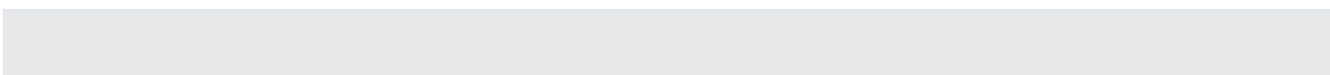
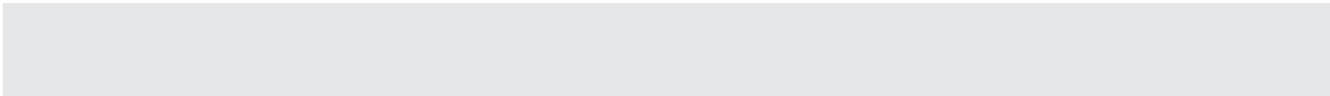
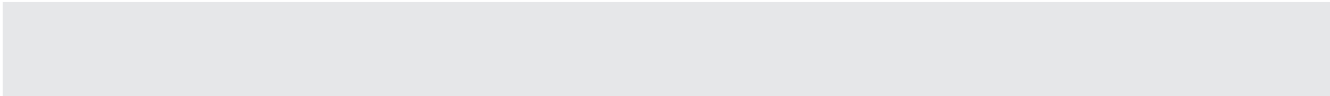
| Block / A-list | Block | Sector | Additional inf. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----------------|--------------|---------------------------------|-----------------|---|----------------------------------|----------------------------|---|---|---|---|
| A88. | BK25.14 | No kit - low quantity of blocks | | No kit - low quantity of blocks 01.02.1989 | | | | | | |
| A12. | IK25.18 | Industrial air | | I-25.18-F1 14.07.1986 | I-25.18-F2/3 03.02.1994 | I-25.18-F2/3 20.03.2002 | | | | |
| A53. | IK25.18-G | Gas / Dry gases | | I-25.18-F1 04.07.1986 | I-25.18-F2/3 03.02.1994 | | | | | |
| A53. | IK25.18-GI | Dry gases | | I-25.18-F1 04.07.1986 | I-25.18-F2/3 03.02.1994 | | | | | |
| A84. | BK25.19 | No kit - low quantity of blocks | | No kit - low quantity of blocks 01.07.1986 | | | | | | |
| A91. | BK25.20 | No kit - low quantity of blocks | | No kit - low quantity of blocks 14.08.1990 | | | | | | |
| A80. | IK26.0-C | Natural gas water-cooled | Swagelock | G-26.0-W-F1-abcd1 01.06.2012 - modified 2nd stage! | | | | | | |
| A118. | IK26.0 | Industrial air water-cooled | Swagelock | I-26.0-W-F1-abcd1 01.01.2013 | | | | | | |
| A38. | IK26.4-GI | Dry gases water-cooled | | D-26.4-W-F1-abcd1 01.08.2011 | | | | | | |
| A124.1s | IK26.4 | Industrial air water-cooled | Swagelock | I-26.4-W-F1 01.10.2013 | | | | | | |
| A79. | IK26.4-C | Natural gas water-cooled | Swagelock | G-26.4-W-F1-abcd1 01.08.2011 | | | | | | |
| A120 | BK26.7-GI | Dry gases water-cooled | Swagelock | D-26.7-W-F1 01.02.2013 | | | | | | |
| A115. | BK26.8-G/-GI | Dry gases water-cooled | | D-26.8-W-F1 01.06.2012 | | | | | | |
| A115. | BK26.8-C | Natural gas water-cooled | | G-26.8-W-F1 01.06.2012 | | | | | | |
| A111. | BK26.10-G | Dry gases water-cooled | | D-26.10-W-F1 01.01.2011 | | | | | | |
| A108. | BK26.10-C | Natural gas water-cooled | | G-26.10-W-F1-abcd1 01.06.2009 | G-26.10-W-F2-abcd1 01.10.2010 | | | | | |
| A112. | BK26.10-GI | Dry gases water-cooled | | D-26.10-W-F1 01.01.2010 | | | | | | |
| A112.-V097 | BK26.10-GI | Dry gases water-cooled | Swagelock | D-26.10-W-F1 01.11.2012 | | | | | | |
| A113. | BK26.12-GI | Dry gases water-cooled | | I-26.12-F1-abcd1 01.07.2011 | | | | | | |

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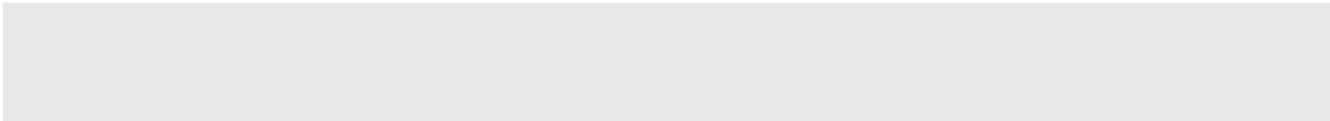
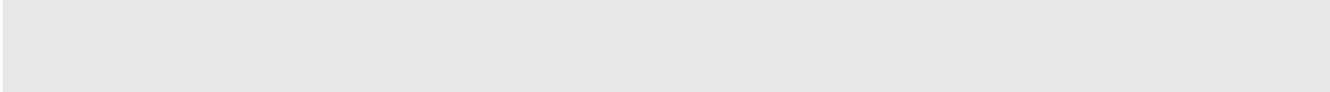
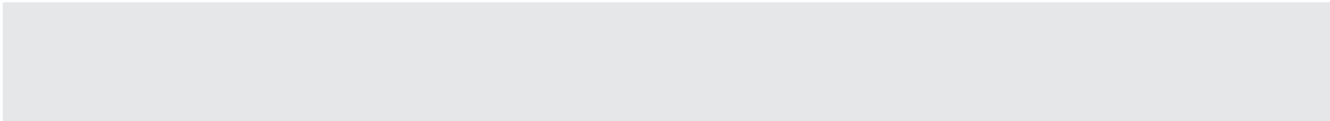
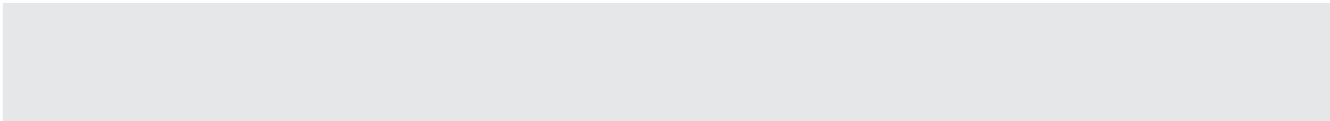
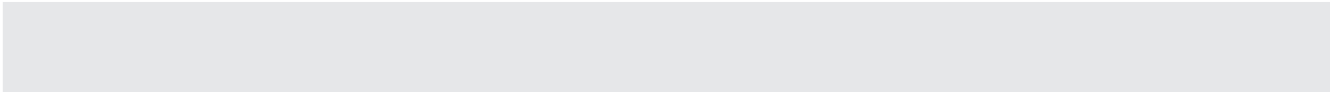
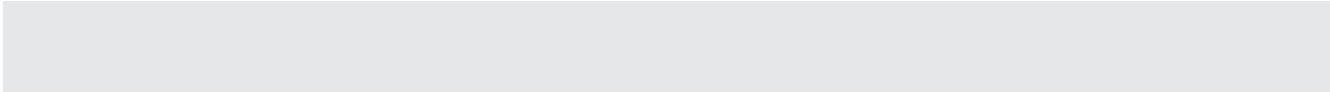
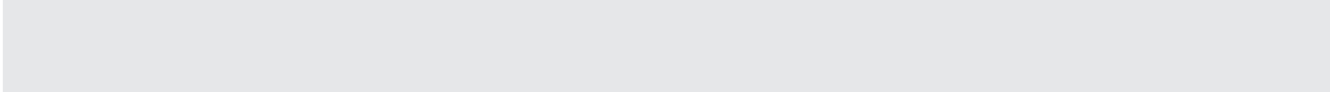
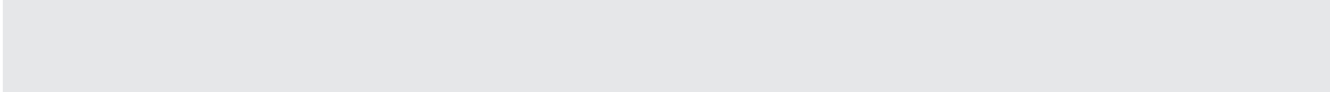
| Block / A-list | Block | Sector | Additional inf. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----------------|-------------------------|---------------------------------|-----------------|---|-----------------------------|----------------------------------|---------------------------------|---------------------------------|---|---|
| A113.-V097 | BK26.12-GI | Dry gases water-cooled | Swagelock | I-26.12-F1-abcd1 01.02.2013 | | | | | | |
| A113. | BK26.12-GI-420-F01-V097 | Dry gases water-cooled | | | | D-26.12-W-F3-abcd1 01.07.2014 | | | | |
| A113 | BK26.12-F03-V004 | Industrial air | | | | I-26.12-W-F3-abcd1 01.09.2014 | | | | |
| | BK26.13-C-F01-V097 | Natural gas | | G-26.13-W-F1-abcd1 09.2014 | | | | | | |
| A122 | BK26.14-C | Natural gas water-cooled | Swagelock | G-26.14-W-F1-abcd1 01.09.2014 | | | | | | |
| A8. | K28.0 | Industrial air | | No kit - low quantity of blocks 01.12.1984 | I-28.0-L-F2/3 01.01.1996 | I-28.0-L-F2/3 01.01.1996 | I-28.0-L-F4 01.06.2012 | | | |
| A8.-W | K28.0 | Industrial air water-cooled | | | | | I-28.0-W-F4 01.08.2008 | I-28.0-W-F5 01.06.2012 | | |
| A47. | IK28.0-G | Natural / Dry gases | | No kit - low quantity of blocks 02.03.1989 | I-28.0-L-F2/3 02.02.1994 | | | | | |
| A47. | IK28.0-C | Natural gas | | No kit - low quantity of blocks 07.03.1989 | I-28.0-L-F2/3 02.02.1994 | G-28.0-F3 01.01.1996 | | | | |
| A47.-C | IK28.0-C | Natural gas water-cooled | | | | G-28.0-F3 01.01.1996 | G-28.0-W-F4-abcd1 01.04.2008 | G-28.0-W-F5-abcd1 01.06.2012 | | |
| A47.-GI | IK28.0 GI | Dry gases | | | D-28.0-L-F2/3 02.02.1994 | D-28.0-L-F2/3 01.07.2002 | D-28.0-L-F4 01.06.2012 | | | |
| A47.-GI | IK28.0 GI | Dry gases water-cooled | | | | | D-28.0-W-F4-abcd1 01.06.2012 | | | |
| A27. | IK28.2 | Industrial air | | I-28.2-F1 09.07.1984 | I-28.2-F2 02.02.1994 | I-28.2-F3 01.06.2012 | | | | |
| A27.-W | IK28.2 | Industrial air water-cooled | | | | | I-28.2-W-F3 01.02.2009 | I-28.2-W-F4 01.06.2012 | | |
| A67. | IK28.2-GI | Dry gases | | D-28.2-F1 09.07.1984 | D-28.2-F2 01.02.1994 | | | | | |
| A28. | IK28.3 | Industrial air | | No kit - low quantity of blocks 14.01.1985 | I-28.3-F2 02.02.1994 | | | | | |
| A68. | IK28.3-G | No kit - low quantity of blocks | | No kit - low quantity of blocks 01.08.1990 | | | | | | |
| A68. | IK28.3-GI | Dry gases | | | I-28.3-F2 02.02.1994 | | | | | |

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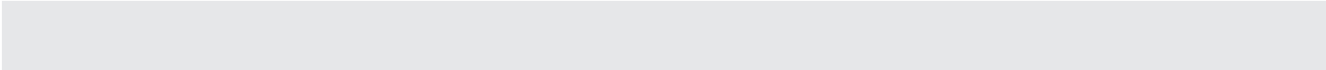
| Block / A-list | Block | Sector | Additional inf. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----------------|-----------|--------------------------|-----------------|--|---|----------------------------------|----------------------------------|---|---|---|
| A94. | BK28.21-C | Natural gas | | G-28.21-F1-abcd1 01.01.1996 | | | | | | |
| A94. | BK28.21-C | Natural gas water-cooled | | | | | G-28.21-W-F4-abcd1 01.08.2008 | | | |
| A94. | BK28.22-C | Natural gas | | G-28.22-F1-abcd1 01.01.1996 | | | | | | |
| A94. | BK28.22-C | Natural gas water-cooled | | | | G-28.22-W-F3-abcd1 01.08.2008 | | | | |
| A94. | BK28.23-C | Natural gas | | G-28.23-F1-abcd1 01.01.1996 | | | | | | |
| A94. | BK28.23-C | Natural gas water-cooled | | | | G-28.23-W-F3-abcd1 01.08.2008 | | | | |
| A94. | BK28.24-C | Natural gas | | G-28.24-F1/2-abcd1 01.01.1996 | | | | | | |
| A94. | BK28.24-C | Natural gas water-cooled | | | | G-28.24-F3-abcd1 01.08.2008 | | | | |
| A30. | D51.1 | Oil free | | No kit - low quantity of blocks 22.01.1992 | No kit - low quantity of blocks 03.11.1993 | | | | | |
| A30. | D51.2 | Oil free | | No kit - low quantity of blocks 22.01.1992 | No kit - low quantity of blocks 03.11.1993 | | | | | |
| A31. | D52.3 | Oil free | | No kit - low quantity of blocks 22.01.1992 | No kit - low quantity of blocks 03.11.1993 | | | | | |
| A126.1 | BK52.12 | Natural gas water-cooled | | G-52.12-W-F1-abcd1 2014 | | | | | | |
| A127.1 | BK52.13 | Natural gas water-cooled | | G-52.13-W-F1-abcd1 2014 | | | | | | |
| A31. | D52.4 | Oil free | | No kit - low quantity of blocks 22.01.1992 | No kit - low quantity of blocks 03.11.1993 | | | | | |
| A34. | IK930 | Alup low pressure | | Alup - no kit - low quantity of blocks 17.12.1990 | | | | | | |
| A35. | IK940 | Alup low pressure | | Alup - no kit - low quantity of blocks 17.12.1990 | | | | | | |

| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|----|----|----|----|----|----|----|----|----|
|---|---|----|----|----|----|----|----|----|----|----|

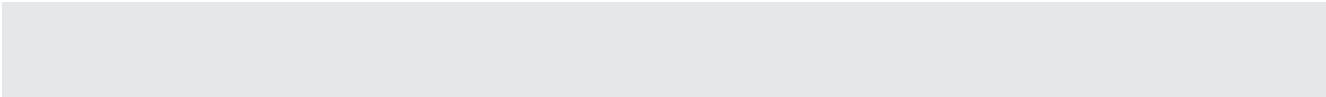
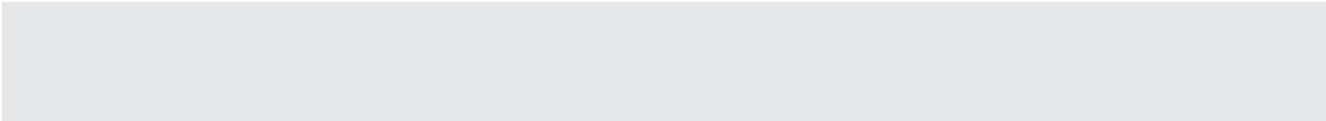


| Block / A-list | Block | Sector | Additional inf. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----------------|---------------------------|---------------------------------|-----------------|---|---|---|---|---|---|---|
| A36. | D81.2 | No kit - low quantity of blocks | | No kit - low quantity of blocks 20.02.1992 | No kit - low quantity of blocks 20.08.1996 | | | | | |
| A69. | SF6-20 | No kit - low quantity of blocks | | No kit - low quantity of blocks 01.05.1993 | | | | | | |
| A70. | D53.5-GI | Dry gases | | I-53.5-F1 01.01.1995 | I-53.5-F2 01.09.1999 | | | | | |
| A82. | BK89 | No kit - low quantity of blocks | | No kit - low quantity of blocks 01.12.1985 | | | | | | |
| A83. | BK89.2 | No kit - low quantity of blocks | | No kit - low quantity of blocks 01.12.1985 | | | | | | |
| A95. | BDGI52.7-3 | No kit - low quantity of blocks | | No kit - low quantity of blocks 01.08.1996 | | | | | | |
| | EVO15 - Screw 26.12-SP | Industrial air | | I-EVO15-F1-a1 13.10.2014 | | | | | | |

| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|----|----|----|----|----|----|----|----|----|
|---|---|----|----|----|----|----|----|----|----|----|



No kit - low
quantity
of blocks
05.05.1989



TKD UR
9/2019

