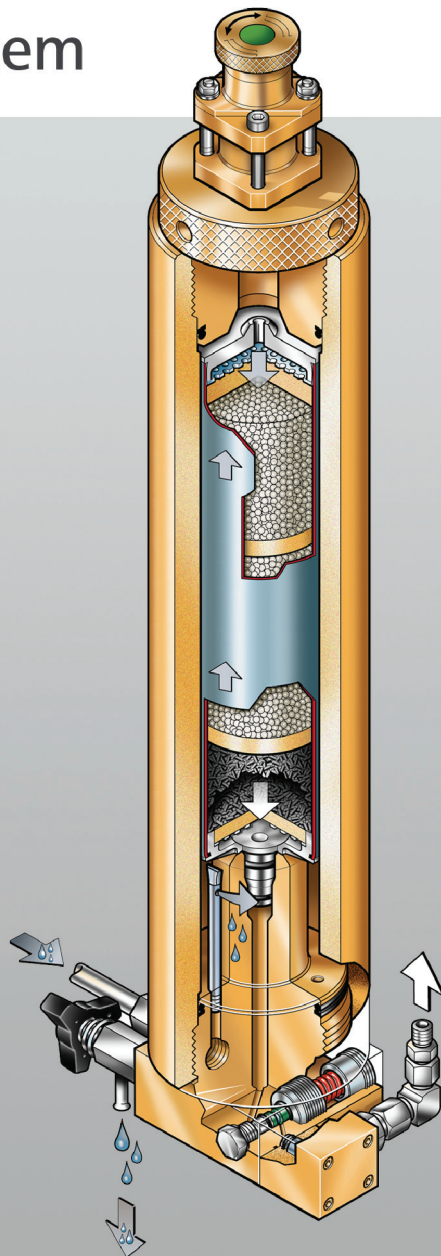


Operating Manual and Spare Parts List

► P31 Triplex

Breathing Air
Purification System





EG-Herstellererklärung
im Sinne der EG-Maschinenrichtlinie 98/37/EG



EC-Manufacturer declaration
according to EC-machine directive 98/37/EC

Hiermit erklären wir,
We

Firma
BAUER KOMPRESSOREN GMBH
Drygalski-Allee 37
D-81477 München

daß die nachfolgend bezeichneten Komponenten zum Einbau in eine Maschine/Anlage bestimmt sind und daß ihre Inbetriebnahme in EG-Ländern solange untersagt ist, bis festgestellt wurde, daß die Maschine/Anlage samt u.g. Komponenten den Bestimmungen der EG-Richtlinie 98/37/EG i.d.F. vom 22.Juni 1998 entspricht.

herewith confirm that the components mentioned below are destined to be installed in a machine/unit and that the putting into operation in EC countries of this machine/unit is not allowed until it has been determined that the machine/unit including under mentioned components complies with the EC-directive, edition 98/37/EC version from 22.June 1998

Bezeichnung der Komponenten <i>Description of components</i> :	Kompressorblöcke Maschinen / Anlagen ohne Motor Fülleisten Air-Kool lose P-Systeme Aero-Guards B-Timer Umschaltleisten	compressor blocks machines / units without motor filling panels Air-Kool loose P-systems Aero-Guards B-Timer Change-over panels
--	---	--

Einschlägige EG-Richtlinien (soweit zutreffend)
EG-Maschinenrichtlinie (98/37/EG) i.d.F. vom 22.Juni 1998 Druckgeräterichtlinie (97/23/EG) i.d.F. vom 29.Mai 1997 Niederspannungsrichtlinie 73/23/EWG Elektromagnetische Verträglichkeit (EMV) 89/336/EWG

Relevant EC directives (if applicable)
<i>EC machine directive (98/37/EC)</i> <i>version from 22.June 1998</i> <i>Pressure Device Directive (97/23/EC)</i> <i>version from 29.May 1997</i> <i>Low Voltage Directive 73/23/EEC</i> <i>Electromagnetic compatibility 89/336/EEC</i>

Angewandte harmonisierte Normen insbesondere (nur zutreffend bei Komponente mit elektrischen Bauteilen)
EN 60 204-1

Applicable and adapted norms particular (only valid for components with electrical parts)
EN 60 204-1

Angewandte nationale Normen und technische Spezifikationen insbesondere
<ul style="list-style-type: none"> - Betriebssicherheitsverordnung vom 27.Sept. 2002 - AD 2000 - Technische Regeln Druckgase (TRG) : TRG 400, 401, 402 (ohne Betriebsstätte), und TRG 790

Applicable national norms and technical specifications particular
<ul style="list-style-type: none"> - <i>Operating safety regulation of 27.Sept. 2002</i> - <i>AD 2000</i> - <i>Technical rules for compressed gas (TRG) : TRG 400, 401, 402 (without specific operating location) and TRG 790</i>

München/ Munich, 2007-09-19

Th. Zehner

Alexander Senmann

Qualitätssicherung/Quality Assurance
Werkssachverständiger/Expert

Technischer Leiter/ Technical Director



EG-Konformitätserklärung

entweder im Sinne der EG-Maschinenrichtlinie 98/37/EG
oder der Druckgeräterichtlinie 97/23/EG (Modul A1 / B+C1*)



EC-Conformity declaration

either according to EC-machine directive 98/37/EC or to
the Pressure Equipment Directive 97/23/EC (Modul A1 / B+C1*)

Hiermit erklären wir,
We

Firma
BAUER KOMPRESSOREN GMBH
Drygalski-Allee 37
D-81477 München

daß die nachfolgend bezeichneten Baueinheiten bzw. Baugruppen (Verdichter für Gase der Fluidgruppe 2) aufgrund ihrer Konzipierung und Bauart sowie in der von uns in Verkehr gebrachten Ausführung den einschlägigen grundlegenden Anforderungen der EG-Richtlinien entsprechen.

herewith confirm that the units or the assemblies (compressors for gas fluid group 2) mentioned below comply with the basic requirements of the EC directives concerning design, construction and putting the model into circulation.

Bei einer nicht mit uns abgestimmten Änderung der Baueinheiten bzw. Baugruppen verliert diese Erklärung ihre Gültigkeit.

This declaration is no longer valid if the units or assemblies are modified without our approval.

Kennzeichnung (siehe Anlagentypenschild) / Sign (please see name plate on the unit):

CE 0036

bzw./ or

CE

Anlagen-Nr. / unit no.: _____

Einschlägige EG-Richtlinien (soweit zutreffend)
EG-Maschinenrichtlinie (98/37/EG) i.d.F. vom 22.Juni 1998 Druckgeräterichtlinie (97/23/EG) i.d.F. vom 29.Mai 1997 Niederspannungsrichtlinie 73/23/EWG Elektromagnetische Verträglichkeit (EMV) 89/336/EWG

Relevant EC directives (if applicable)
EC machine directive (98/37/EC) version dtd. June 22, 1998 Pressure Equipment Directive (97/23/EC) version dtd. May 29, 1997 Low Voltage Directive 73/23/EEC Electromagnetic compatibility 89/336/EEC

Angewandte harmonisierte Normen insbesondere
EN 60 204-1 EN12021 (bei Verwendung von zutreffenden BAUER Filtersystem)

Applicable and adapted norms, in particular
EN 60 204-1 EN12021 (if using the appropriate BAUER filter system)

Angewandte nationale Normen und technische Spezifikationen insbesondere
- Betriebssicherheitsverordnung vom 27.September 2002 - AD 2000 - Technische Regeln Druckgase (TRG) :TRG 400, 401, 402 (ohne Betriebsstätte) und TRG 790

Applicable national norms and technical specifications particulary
- Operating safety regulation dtd. Sept. 27, 2002 - AD 2000 - Technical rules for compressed gases (TRG) : TRG 400, 401, 402 (without specific operating location) and TRG 790

Benannte Stelle
TÜV SÜD Industrie Service

Notified Body
TÜV SÜD Industrie Service

München/ Munich, 2008-07-14

Qualitätssicherung/
Quality Assurance

Technischer Leiter/
Technical Director

Diese Bescheinigung ist nur in Verbindung mit dem Anhang zur Konformitätserklärung vom 16.08.2007 gültig !
This certificate is only valid with the enclosed annex to the EC-conformity declaration dated August 16, 2007 !



EG-Konformitätserklärung

entweder im Sinne der EG-Maschinenrichtlinie 98/37/EG
oder der Druckgeräterichtlinie 97/23/EG (Modul A1 / B+C1*)



EC-Conformity declaration

either according to EC-machine directive 98/37/EC or to
the Pressure Equipment Directive 97/23/EC (Modul A1 / B+C1*)

S30			
JUNIOR II-B JUNIOR II-E JUNIOR II-W		MV-I 100-3-3 MV-I 100-4-3 MV-I 120-4-3 MV-I 120-5,5-3 MV-GI 100-3-3 MV-GI 100-4-3 MV-GI 120-4-3 MV-GI 120-5,5-3 MV-GIB 12.2-5,5-3 MV-BGIB 12.3-5,5-3	KAP 23-50D KAP 15.1-14DAH KAP 15.11-14DAH KAP 150-16DAH KAP 180-18DAH
OCEANUS-B OCEANUS-E OCEANUS-W			PE 200 TE PE 200 TB PE 250 TE PE 250 TB PE 250 HE PE 320 HE PE 320 VE PE 500 VE PE 680 VE
UTILUS II-B UTILUS II-E UTILUS II-W UTILUS II-D		V 12.14-5.5-5 V 12.14-7.5-5 V 15.1-7.5-5 V 15.1-11-5 V 150-11-5 V 180-15-5 V 15.11-11-5 V 18.1-11-5 V 18.1-15-5	
CAPITANO 140-B CAPITANO 140-E CAPITANO II-B CAPITANO II-E CAPITANO II-D			C 100-3-5 C 120-4-5 C 120-5.5-5 C 15.1-11-5 C 15.2-15-5 C 22.0-18.5 C 22.0-22 C23.1-30 C 25.0-37 C 25.0-45 C 28.0-75 C 28.0-90
MARINER 200-E-GI MARINER 200-B MARINER 200-E MARINER 250-E-GI MARINER 250-B MARINER 250-E MARINER 320-B MARINER 320-E MARINER II-B MARINER II-E MARINER II-E-GI MARINER II-D		KAP 12.14-5.5-5 KAP 12.14-7.5-5 KAP 15.1-7.5-5 KAP 15.1-11-5 KAP 150-11-5 KAP 180-15-5 KAP 15.11-11-5 KAP 18.1-11-5 KAP 18.1-15-5 KAP 15.1-11-H KAP 150-11-H KAP 180-15-H KAP 15.1-7.5-HN KAP 150-11-HN KAP 180-15-HN KAP 220-20E KAP 220-25E KAP 220-30E KAP 23-40E KAP 23-50E KAP 220-30-420 KAP 220-20D KAP 220-25D KAP 220-30D KAP 23-40D	CBK 15.4-15-5 CBK 22.10-37 CBK 22.11-30 CBK 22.12-30 CBK 22.13-30 CBK 22.14-30 CBK 24.11-50 CBK 24.11-75 CBK 24.12.50 CBK 24.12-75 CBK 24.13-50 CBK 28.21-75 CBK 28.22-90 CBK 28.23-90 CBK 28.24-90
MV 100-4-3 MV 120-4-3 MV 120-5.5-3			



EG-Konformitätserklärung

entweder im Sinne der EG-Maschinenrichtlinie 98/37/EG
oder der Druckgeräterichtlinie 97/23/EG (Modul A1 / B+C1*)



EC-Conformity declaration

either according to EC-machine directive 98/37/EC or to
the Pressure Equipment Directive 97/23/EC (Modul A1 / B+C1*)

D 53.5-2.2 D 53.5-3	KV 2.2 KV 3 KV 4 KV 5.5 KW 7.5 KW 11	I 100-3-5 I 100-4-5 I 120-4-5 I 120-5.5-5 I 12.14-7.5-5 I 15.1-7.5-5 I 15.1-11-5 I 150-11-5 I 180-15-5 I 15.11-7.5-5 I 15.11-11-5 I 18.1-15-5 I 22.0-15 I 22.0-18.5 I 22.0-22 I 23.0-30 I 23.0-37 IK 24.0-75 I 25.0-45 I 28.0-55 I 28.0-75 I 22.0-22-420 I 25.9-45 I 25.18-55
B 12.4-4-5 B 22.5-11 B 22.5-15 B 23.4-22 B 23.4-30 B24.4-75 B 25.4-37 B 25.4-45 B 28.2-55 B 25.5-75 B 28.3-90 B 28.3-110	KV 2.2 KV 3 KV 4 KV 5.5 KW 7.5 KW 11	
E 12.4-2.2-5 E 12.4-3-5 E 12.4-4-5 E 22.5-15 E 23.4-22 E 23.4-30 E 25.4-37 E 25.4-45 E 28.2-55 E 100-3-5 E 120-4-5 E 22.0-11 E 22.0-15 E 22.0-18.5 E 25.0-30 E 25.0-37 E 28.0-45 E 28.0-55	A 22.5-11 A 22.5-15 A 23.4-18.5 A 23.4-22 A 25.4-30 A 25.4-37 A 28.2-45 A 25.5-55 A 25.5-75 A 28.3-90	G 100-3-5 G 120-4-5 G 120-5.5-5 G 15.1-7.5-5 G 15.1-11-5 G 18.1-15-5 G 22.0-18.5 G 23.1-22 G 23.1-30 G 25.9-45
	MV-B12.4-4-3 MV-E12.4-2.2-3 MV-E12.4-3-3 MV-E-12.4-4-3 MV-E100-3-3 MV-E120-4-3	



EG-Konformitätserklärung

entweder im Sinne der EG-Maschinenrichtlinie 98/37/EG
oder der Druckgeräterichtlinie 97/23/EG (Modul A1 / B+C1*)



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either according to EC-machine directive 98/37/EC or to
the Pressure Equipment Directive 97/23/EC (Modul A1 / B+C1*)

<p>GI 100-3-5 GI 100-4-5 GI 120-4-5 GI 120-5.5-5 GI 12.14-7.5-5 GI 15.1-7.5-5 GI 15.1-11-5 GI 15.11-7,5-5 GI 15.11-11-5 GI 18.1-15-5 GI 150-11-5 GI 180-15-5 GI 22.0-15 GI 22.0-18.5 GI 22.0-22 GI 23.0-30 GI 23.0-37 GI 25.0-45 GI 28.0-55 GI 28.0-75 GI 25.9-45 GI 25.18-55</p>	<p>GIB 22.10-37 GIB 22.11-30 GIB 22.12-30 GIB 22.13-30 GIB 22.14-30 GIB 24.11-75 GIB 24.12-75 GIB 24.13-50 GIB 24.19-90 GIB 24.20-90 GIB 28.21-75 GIB 28.22-90 GIB 28.23-90 GIB 28.24-90</p>	<p>CBKTA 15.4-15-5</p>
<p>GIB 12.2-5.5-5 GIB 12.3-5,5-5 GIB 12.3-7,5-5 GIB 15.3-11-5 GB 15.4-15-5</p>	<p>BGIB 23.4-22</p>	<p>B-MASTER (MINI, MIDI, MAXI)</p>
	<p>CTA 100-3-5 CTA 120-4-5 CTA 120-5.5-5 CTA 15.1-11-5 CTA 15.2-15-5 CTA 22.0-18.5 CTA 22.0-22 CTA 23.1-30 CTA 25.0-37 CTA 25.0-45 CTA 28.0-75 CTA 28.0-90</p>	<p>Folgende Komponenten können je nach Auftrag im Lieferumfang der Baueinheiten / Baugruppen enthalten sein und werden über diese Konformitätserklärung im Sinne einer Gesamtanlage abgedeckt:</p> <p><i>Depending on the order, the following components can be part of the units or of the assemblies and are covered by this conformity declaration as if they were a complete unit:</i></p> <p>P-SYSTEME / P-SYSTEMS FÜLLEISTEN / FILLING PANELS AIR-KOOL B-TIMER AERO-GUARD UMSCHALTLEISTEN / CHANGE-OVER PANELS HOCHDRUCKSPEICHER / HP - STORAGE CYLINDERS ZUSCHALTAUTOMATIK AUTOMATIC SELECTOR UNIT *SECCANT EG-Baumusterprüfung (Modul B) Zertifikat-Nr. EC Type-examination (modul B) Certificate no.: IS-DD1-MUC-05-03-614668-023</p>

INTRODUCTION

This manual contains operation and maintenance schedules for the high pressure breathing air purification system

P31

manufactured by Bauer Kompressoren GmbH, Munich.

All instructions should be observed and carried out in the order laid down to prevent damage and premature wear to the equipment and the units served by it.

While every effort is made to ensure the accuracy of the particulars contained in this manual, the manufacturing company will not, in any circumstances, be held liable for any inaccuracies or the consequences thereof.



TABLE OF CONTENTS

1. GENERAL 1
 2. MAINTENANCE 3
 3. ANNEX 7

TABLE OF FIGURES

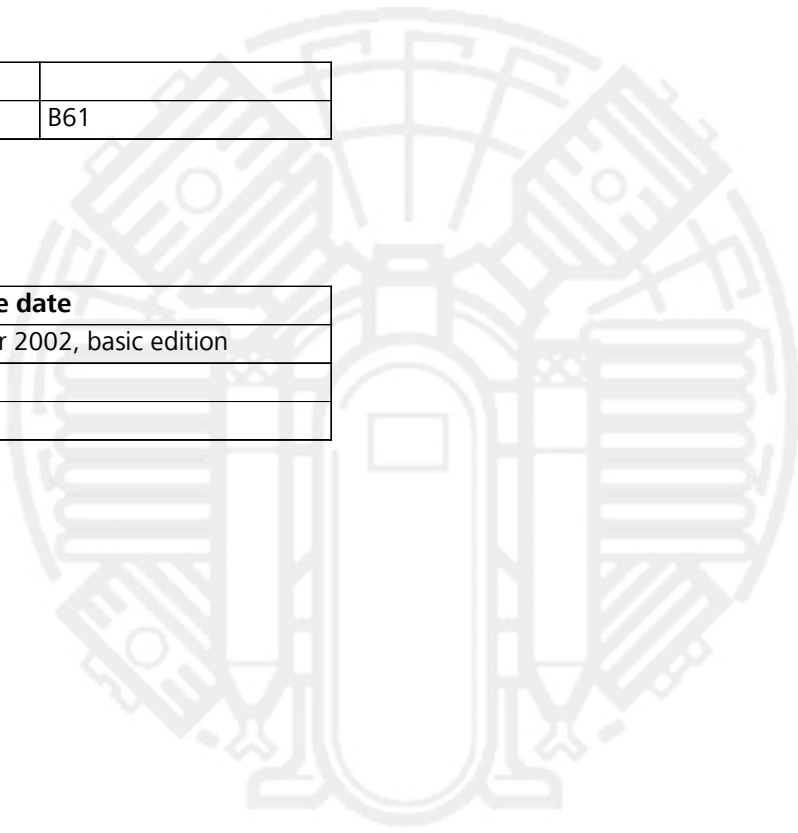
Fig. 1 Filter system P31 1
 Fig. 2 Safety bore 1
 Fig. 3 Pressure maintaining valve, P31 2
 Fig. 4 Venting the final pressure safety valve 4

ANNEX

Operating hours record	
Applicable parts list:	B61

CHANGE NOTICE

Change no.	Change date
0	October 2002, basic edition



1. GENERAL

SUMMARY DESCRIPTION

The filter meets the European Pressure Equipment Directive 97/23/EG. The filter category is II. The production conforms to module H1.

The filter is composed of the following components:

- Filter housing with integrated oil and water separator
- Pressure maintaining valve integrated in the filter bottom
- Non return valve flange-mounted on the outlet
- Condensate drain tap
- Filter cartridge
- Fixing pieces
- Safety valve^{a)}



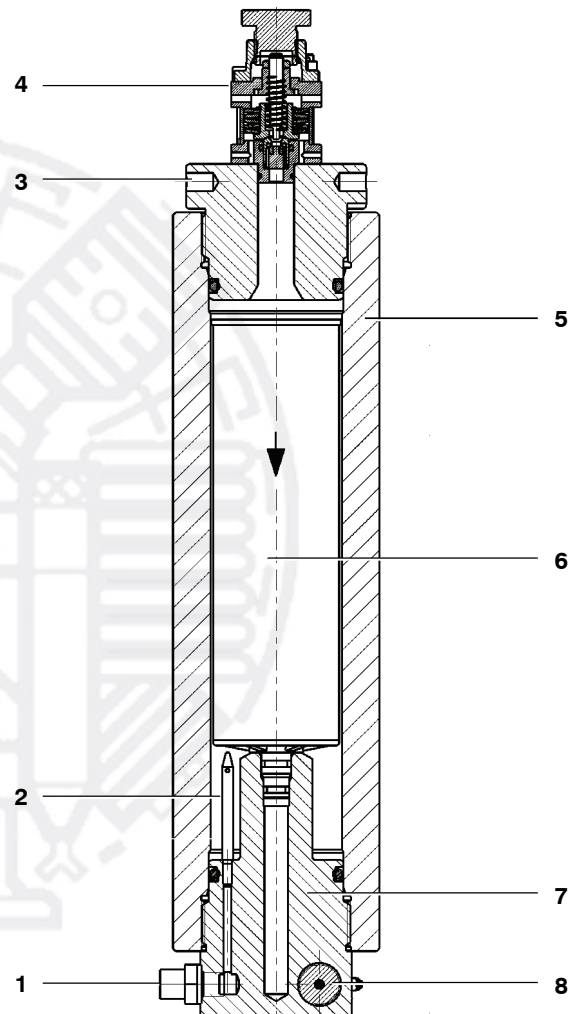
Do not exceed the “authorized” data!

Designation	P31/350
Authorized medium	Air, N ₂ , He
Authorized delivery (l/min.)	100...350
Authorized pressure (bar)	140...350
Authorized ambient temperature (°C)	5...45
Adsorbable water charge with filter cartridge 80100 (gr.)	62
Volume of processed air with filter cartridge 80100 (m ³) ^{b)}	409
Adsorbable water charge with filter cartridge 80114 (gr.)	47
Volume of processed air with filter cartridge 80114 (m ³) ^{b)}	307
Height without safety valve (mm)	476
Height with safety valve (mm)	562
Diameter (mm)	115

APPLICATION

The air leaving the final stage is cooled in the after-cooler to approx. 10 - 15 °C (18 - 27 °F) above ambient temperature and then enters filter system **P31** with **TRIPLEX** long-life cartridge (Fig. 1).

The filter assembly consists of separator and cartridge chamber. In the separator underneath the cartridge chamber, liquid oil and water particles are reliably separated from the compressed medium by a pipe nozzle. Residual oil and water vapors are then removed by the **TRIPLEX** long-life cartridge. The quality of the breathing air produced conforms to DIN EN 12021.



- 1 Filter inlet
 - 2 Jet pipe
 - 3 Filter head
 - 4 Final pressure safety valve
 - 5 Housing
 - 6 Triplex cartridge
 - 7 Filter base
 - 8 Pressure maintaining valve
- Fig. 1 Filter system P31

a) Not necessary if the P31 filter replaces a P21 filter: the safety valve of the P21 filter can be mounted on the P31 filter.
 b) Regarding drying with temperature $t_{\text{separator}} = 30 \text{ °C}$ and pressure $p = 200 \text{ bar}$

CARTRIDGE SAFETY BORE

The filter system **P31** is designed to prevent pressurizing in the absence of the filter cartridge. A bore provided in the filter bottom is sealed air-tight only if the cartridge is in place (Fig. 2).



No pressure build up without cartridge!

Without cartridge the venting bore is not sealed, the air escapes into the atmosphere, no pressure can be built up and thus it is ensured, that unfiltered air is not supplied to the consuming device.

The venting bore is also used to check the O-rings on the cartridge pin. If air is leaking out of the venting bore even though a cartridge is installed, the O-rings are either broken or were damaged on installation.

Remove and check cartridge. If necessary replace cartridge or O-rings.

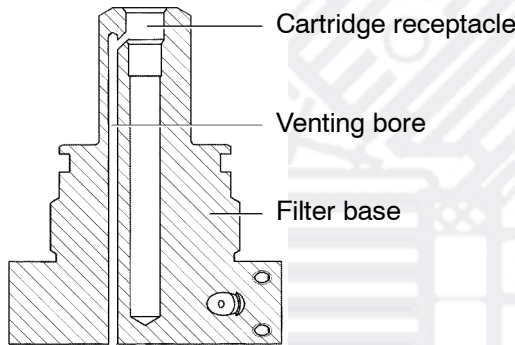


Fig. 2 Safety bore

LIFETIME

WARNING The oil and water separator is subject to dynamic load. It is designed to withstand a certain no. of load cycles. (1 load cycle = 1 pressurization, 1 depressurization) at the specified pressure range. The oil and water separator must be replaced when the maximum permissible no. of load cycles has been reached. Refer to the pressure vessel operating manual delivered with the unit.

The maximum recommended amount of four load cycles per hour should not be exceeded. If it is possible to regulate the operation of the unit to such a degree as to achieve four load cycles per hour, in our opinion this would be an optimum between usage and actual life.

PRESSURE MAINTAINING VALVE

DESCRIPTION

A pressure maintaining valve is integrated in the P31 filter base (Fig. 3).

It ensures that pressure is built up in the filter even from the start of delivery, thus achieving a constant, optimum filtration. It will also guarantee proper working conditions for the final stage cylinder.

The pressure maintaining valve is adjusted to **150 ± 10 bar**.

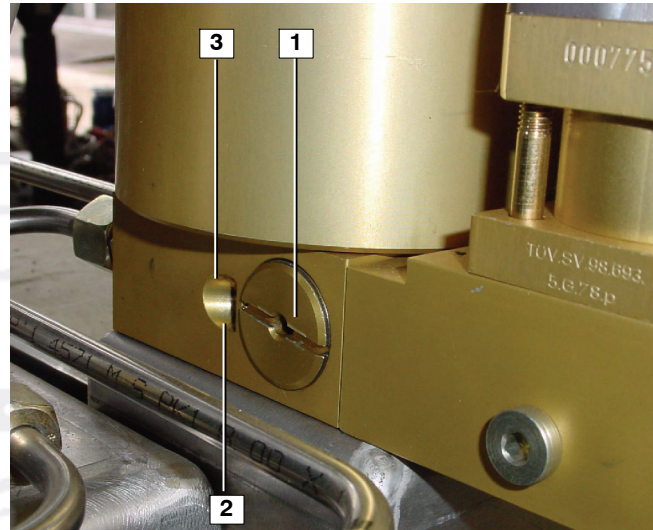


Fig. 3 Pressure maintaining valve

ADJUSTMENT

The pressure maintaining valve (Fig. 3) is adjusted at the factory to the required pressure and normally does not require regular maintenance or readjustment. In case of readjustment becoming necessary, loosen jam nut (2) and set screw (3). Adjust screw (1) to the required pressure using a suitable screw-driver.



Clockwise = increase pressure
Counter-clockwise = decrease pressure

GENERAL INSTRUCTIONS FOR FILTER MAINTENANCE

- Do not confuse **input** and **output** (see drawing 81033 in annex).
- **Depressurize** system before starting any maintenance work (condensate drain tap open).
- **Dry** inside of filter housing with a clean cloth before installing new cartridge and check for corrosion. Change if necessary.
- **Lubricate** threads and O-rings as well as threaded part of cartridge with white petrolatum DAB 9 order no. N19091 or WEICON WP 300 white order no. N19752.
- **Record** number of pressure bottles and/or operating hours to ensure exact attention to maintenance intervals.
- **Change** cartridge before reactivating a compressor unit after out-of-service periods of more than 3 months.
- **Leave** cartridge in the filter as long as unit is out of service.
- **Keep** all condensate drain valves and taps closed. Keep a minimum pressure of approx. 50 to 80 bar (700 to 1,100 psi) within the system to prevent moisture entering the compressor piping and filter system.
- The nozzle type separator is maintenance-free.

FILTER CARTRIDGES

New filter cartridges are vacuum-packed and can be stored for two years (refer to date on the cartridge). A defective vacuum package cannot protect the cartridge appropriately against environmental influences during storage. Should the package be damaged, do not use the cartridge.

To avoid any danger to your health or damage to your unit, change used up cartridges in good time.

Never fill used up cartridges yourself! The filter material was chosen specifically by **BAUER-KOMPRESSOREN** for each kind of application.

Pay attention to cleanliness and hygiene when changing the filter.

FILTER CARTRIDGE SERVICE LIFETIME

The number of operating hours or the amount of possible bottle fillings per filter cartridge can be determined by the tables on page 5 and 6 taking into consideration the ambient temperature and the cartridge used.

These tables contain calculated cartridge lifetime data, that refer to defined and constant operating conditions. Tolerances at bottle fillings and different operating temperatures can lead to considerable divergences compared to data given, which therefore can only serve as reference values for the user.

Cartridge 80110 is the normal TRIPLEX-cartridge for electric units.

Example: at an ambient temperature of 20°C, 165 to 205 10-ltr-bottles can be filled with a TRIPLEX-cartridge, which is equivalent to 17 to 21 compressor operating hours at a filling pressure of 200 bar.

On compressor units with petrol engines only use **cartridge, part no. 80114 to dry and remove oil and CO.**

Example: at an ambient temperature of 20°C, 124 to 153 10-ltr-bottles can be filled with this cartridge, which is equivalent to between 13 and 16 operating hours at a filling pressure of 200 bar.

CARTRIDGE CHANGE

WARNING

For safety reasons only **CO removal cartridges part no. 80114** should be used on compressor units with petrol engine. On units with electric engine either **CO removal cartridge part no. 80114** or **TRIPLEX cartridge part no. 80110** can be used.



Units with petrol engine are delivered with **CO removal cartridge part no. 80114** as standard, units with electric engine with **TRIPLEX cartridge part no. 80110**. When changing from electric engine to a petrol engine also replace **cartridge part no. 80110** with **cartridge part no. 80114**.



Never remove replacement cartridge from packaging prior to actual use otherwise highly sensitive molecular sieve will absorb water vapour from surrounding air and cartridge saturated and thus be ruined.

- Depressurize filter system by opening condensate drain valves.
- Remove filter head (3, Fig. 1).
- Extract old cartridge and insert a new one.
- Screw in filter head to the stop, without use of force.



The used cartridge must be disposed of according to local regulations.

CONDENSATE DRAINAGE

Drain condensate from separator and cartridge chamber regularly by slowly opening drain valves

- before changing cartridge
- before each filling procedure
- during filling procedure every **15 minutes**.

Slowly open left tap first, then right tap approx. 1/3 turn to the left, until condensate is completely drained. The taps close by spring pressure, if necessary tighten by hand to make sure they are completely air-tight.

SAFETY VALVE

Checking function

The final pressure safety valve has to be checked regularly. For this purpose the safety valve can be vented manually. Turn knurled knob on top of the valve clockwise until valve blows off (Fig. 4).

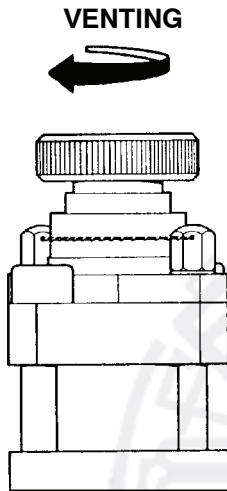


Fig. 4 Venting the final pressure safety valve

This just ensures that the valve is functional and will release pressure in case of a malfunction. To check the blow-off pressure value refer to "Blow-off pressure check".

Checking blow-off pressure

Check blow-off pressure of the final pressure safety valve regularly, see maintenance schedule in the instruction manual of your compressor. Pump unit to final pressure with shut-off valve closed until safety valve blows off. Check blow-off pressure of safety valve at pressure gauge.

1. Filter cartridge 80100: Filter cartridge lifetime [hours]				
Filling pressure p = 200 bar		Capitano 140	Mariner 200	Mariner 250
Ambient temperature tU [°C]	Temperature of final separator tAb [°C]	Delivery Q [l/min]	Delivery Q [l/min]	Delivery Q [l/min]
		140	200	250
10	20 - 24	86 - 68	60 - 48	48 - 38
15	25 - 29	64 - 52	45 - 36	36 - 29
20	30 - 34	49 - 39	34 - 28	27 - 22
25	35 - 39	37 - 31	26 - 21	21 - 17
30	40 - 44	29 - 24	20 - 17	16 - 13
35	45 - 49	23 - 19	16 - 13	13 - 10
40	50 - 54	18 - 15	13 - 10	10 - 8
Filling pressure p = 300 bar		Capitano 140	Mariner 200	Mariner 250
Ambient temperature tU [°C]	Temperature of final separator tAb [°C]	Delivery Q [l/min]	Delivery Q [l/min]	Delivery Q [l/min]
		140	200	250
10	20 - 24	129 - 102	90 - 72	72 - 57
15	25 - 29	97 - 77	68 - 54	54 - 43
20	30 - 34	73 - 59	51 - 41	41 - 33
25	35 - 39	56 - 46	39 - 32	31 - 26
30	40 - 44	44 - 36	30 - 25	24 - 20
35	45 - 49	34 - 28	24 - 20	19 - 16
40	50 - 54	27 - 22	19 - 16	15 - 12

Filter cartridge 80100: Bottle fillings [number] mass of molecular sieve mMS [g] = 311							
Ambient temperature tU [°C]	Temperature of final separator tAb [°C]	Moisture content of air, 100% saturated X [g/m³]	Volume of processed air Va [m³]		Number of bottle fillings n and bottle size		
			at pressure p [bar]		7 l	10 l	12 l
			200	300			
10	20 - 24	17,31 - 21,80	719 - 571	1078 - 856	513 - 408	359 - 285	299 - 238
15	25 - 29	23,07 - 28,79	539 - 432	809 - 648	385 - 309	270 - 216	225 - 180
20	30 - 34	30,40 - 37,63	409 - 331	614 - 496	292 - 236	205 - 165	171 - 138
25	35 - 39	39,65 - 48,64	314 - 256	471 - 384	224 - 183	157 - 128	131 - 107
30	40 - 44	51,21 - 62,41	243 - 199	364 - 299	174 - 142	121 - 100	101 - 83
35	45 - 49	65,52 - 79,28	190 - 157	285 - 235	136 - 112	95 - 78	79 - 65
40	50 - 54	83,08 - 99,85	150 - 125	225 - 187	107 - 89	75 - 62	62 - 52

Bottle filling volume VF [m³]		
Bottle size	at pressure p [bar]	
l [litr.]	200	300
7	1,4	2,1
10	2	3
12	2,4	3,6

Number of bottle fillings n =
 processed volume of air / bottle filling volume = Va / VF

Bottle filling volume: VF [m³] = p [bar] x l [l] / 1000 [l/m³]

Volume of air which can be processed: Va [m³] = 0,2 x mMS [g] / (X [g/m³] / p [bar]) = 0,2 x p [bar] x mMS [g] / X [g/m³]

Lifetime of filter cartridge: tp [h] = Va [m³] / (Q [m³/min] x 60 [min/h])

2. Filter cartridge 80114: Filter cartridge lifetime [hours]				
Filling pressure p = 200 bar		Capitano 140	Mariner 200	Mariner 250
Ambient temperature tU [°C]	Temperature of final separator tAb [°C]	Delivery Q [l/min]	Delivery Q [l/min]	Delivery Q [l/min]
		140	200	250
10	20 - 24	64 - 51	45 - 35	36 - 28
15	25 - 29	48 - 38	34 - 27	27 - 21
20	30 - 34	36 - 29	25 - 21	20 - 16
25	35 - 39	28 - 23	20 - 16	16 - 13
30	40 - 44	22 - 18	15 - 12	12 - 10
35	45 - 49	17 - 14	12 - 10	9 - 8
40	50 - 54	13 - 11	9 - 8	7 - 6
Filling pressure p = 300 bar		Capitano 140	Mariner 200	Mariner 250
Ambient temperature tU [°C]	Temperature of final separator tAb [°C]	Delivery Q [l/min]	Delivery Q [l/min]	Delivery Q [l/min]
		140	200	250
10	20 - 24	96 - 76	67 - 53	54 - 43
15	25 - 29	72 - 58	50 - 40	40 - 32
20	30 - 34	55 - 44	38 - 31	31 - 25
25	35 - 39	42 - 34	29 - 24	23 - 19
30	40 - 44	32 - 27	23 - 19	18 - 15
35	45 - 49	25 - 21	18 - 15	14 - 12
40	50 - 54	20 - 17	14 - 12	11 - 9

Filter cartridge 80114: Bottle fillings [number] mass of molecular sieve mMS [g] = 233							
Ambient temperature tU [°C]	Temperature of final sepa- rator tAb [°C]	Moisture con- tent of air, 100% saturated X [g/m ³]	Volume of processed air Va [m ³] at pressure p [bar]		Number of bottle fillings n and bottle size		
			200	300	7 l	10 l	12 l
10	20 - 24	17,31 - 21,80	538 - 428	808 - 641	385 - 305	269 - 214	224 - 178
15	25 - 29	23,07 - 28,79	404 - 324	606 - 486	289 - 231	202 - 162	168 - 135
20	30 - 34	30,40 - 37,63	307 - 248	460 - 372	219 - 177	153 - 124	128 - 103
25	35 - 39	39,65 - 48,64	235 - 192	353 - 287	168 - 137	118 - 96	98 - 80
30	40 - 44	51,21 - 62,41	182 - 149	273 - 224	130 - 107	91 - 75	76 - 62
35	45 - 49	65,52 - 79,28	142 - 118	213 - 176	102 - 84	71 - 59	59 - 49
40	50 - 54	83,08 - 99,85	112 - 93	168 - 140	80 - 67	56 - 47	47 - 39

Bottle filling volume VF [m ³]		
Bottle size	at pressure p [bar]	
l [ltr.]	200	300
7	1,4	2,1
10	2	3
12	2,4	3,6

Number of bottle fillings n =
 processed volume of air / bottle filling volume = Va / VF

Bottle filling volume: VF [m³] = p [bar] x l [l] / 1000 [l/m³]

Volume of air wich can be processed: Va [m³] = 0,2 x mMS [g] / (X [g/m³] / p [bar]) = 0,2 x p [bar] x mMS [g] / X [g/m³]

Lifetime of filter cartridge: tp [h] = Va [m³] / (Q [m³/min] x 60 [min/h])

2. ANNEX

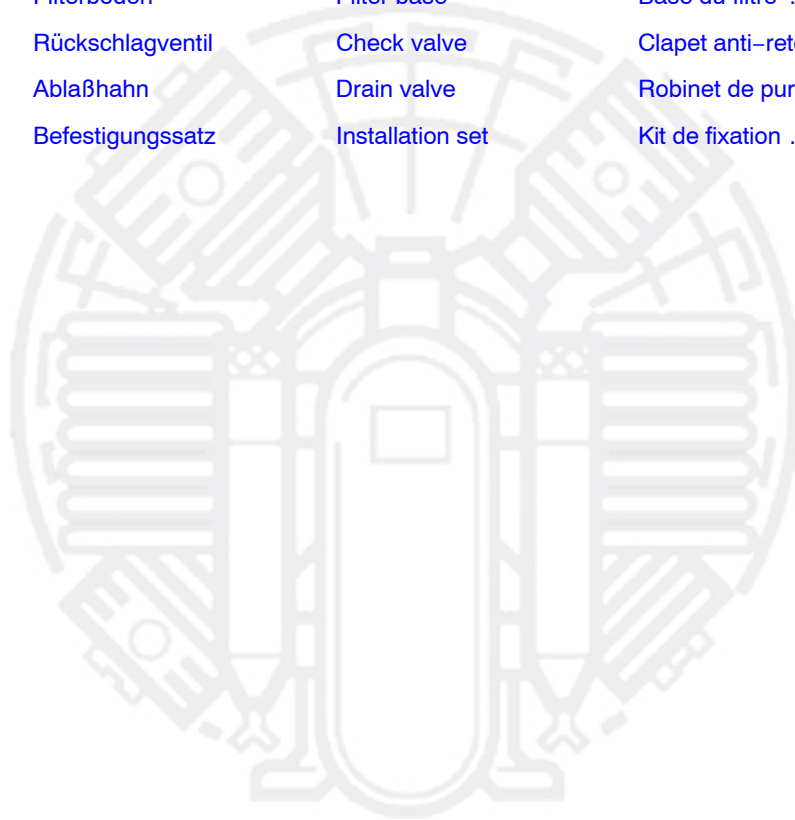
- Operating hours record
Parts Lists





Inhaltsverzeichnis / Table of contents / Table des matières

Bild/Fig.	Baugruppe	Assembly	Assemblage	Seite/Page
B61.1- 1	80067	Filtersystem P31	Filter system P31	Système de filtration P31 3
B61.1- 2	79873-EU	Filter P31	Filter P31	Filtre P31 4
B61.1- 3		Filterboden	Filter base	Base du filtre 5
B61.1- 4	80555	Rückschlagventil	Check valve	Clapet anti-retour 6
B61.1- 5	011430	Ablaßhahn	Drain valve	Robinet de purge 7
B61.1- 6	81665	Befestigungssatz	Installation set	Kit de fixation 8



Änder.-Nr. Change no. No. de change	Datum Date	Änderung	Change	Changement
0	01.07.2001	Grundausgabe	Basic edition	Edition de base
1	01.06.2003	Befestigungssatz	Installation set	Set de fixation

Wichtige Hinweise für Teilebestellungen:

Bestell-Nr., die mit der Ziffer 0 beginnen, bezeichnen Baugruppen, die komplett geliefert werden. Teile ohne Bestell-Nr. sind nur zur Information für die Montage aufgeführt. Sie sind nicht als Ersatzteil erhältlich. Bei Ersatzteilbestellungen erwarten Sie unsere richtige Lieferung; deshalb benötigen wir von Ihnen folgende Angaben (siehe unten gezeigtes Typenschild):

1. Modellbezeichnung, Fabrik-Nr. sowie Fertigungsstand von Anlage/Block
2. Stückzahlen
3. Benennung und Best.-Nr. des gewünschten Teils

Bestell-Beispiel:

Für Kompressorblock ...
Fabrik-Nr. 5124-0528/1/2 drei Dichtungen
8263-090

Important notes for spare parts orders:

Part nos. beginning with digit 0 indicate parts available as complete assemblies. Parts without part no. are indicated for assembly reference, only. These parts are not available as single parts. When placing an order for spare parts, please give the following items so as to ensure our correct delivery (see identification plate shown below):

1. Model, serial no. as well as design standard of unit/block
2. Quantity required
3. Name and part no.

Example for order:

For compressor block ...
serial no. 5124-0528/1/2, three gaskets
8263-090

Avis important pour la commande de pièces:

Les nos. de commande commençant par le chiffre 0 indiquent les pièces livrées au complet. Les pièces sans no. de commande sont indiquées uniquement pour information de montage. Elles ne sont pas livrées individuellement. Pour que la livraison de pièces de rechange corresponde à la commande, veuillez bien nous fournir les données suivantes (voir plaque d'identité ci-dessous):

1. Modèle, no. de série et standard de construction de bloc compresseur/groupe
2. Quantité désirée
3. Dénomination et no. de commande de la pièce désirée

Exemple de commande:

Pour bloc compresseur ...
no. de série 5124-0528/1/2, trois joints no. de cde. 8263-090



Wartungssätze

	Atemluft/Industrie
a = Wartungssatz	500 h/1000 h
b = Wartungssatz	1000 h/2000 h
c = Wartungssatz	2000 h/4000 h



Maintenance kit

	Breathing air/industry
a = Maintenance kit	500 h/1000 h
b = Maintenance kit	1000 h/2000 h
c = Maintenance kit	2000 h/4000 h



Kits de pièces d'entretien :

	Air respirable/industrie
a = Kit d'entretien	500 h/1000 h
b = Kit d'entretien	1000 h/2000 h
c = Kit d'entretien	2000 h/4000 h

In den Spalten sind die im entsprechenden Satz enthaltenen Teile angekreuzt. Bitte beachten, daß die höheren Sätze die untergeordneten nicht beinhalten, d.h. für eine 4000-Stunden-Wartung wird 1x Satz a, 1x Satz b und 1x Satz c benötigt.

The columns contain the parts that are included in the respective parts set. Please note that the higher graded kits do not include the lower ones, i.e. for a 4000 hours maintenance, one kit a, one kit b plus one kit c are required.

Les pièces contenues dans les kits correspondants sont marquées d'une croix dans les colonnes. Veuillez observer que les kits supérieurs ne contiennent pas les kits subordonnés, c'est-à-dire pour un entretien de 4000 heures il faut avoir 1x kit a, 1x kit b et 1x kit c.

Anmerkungen zur Identifikation:
Remarks for identification:
Remarques pour l'identification:

Modell/Model/Modèle		Fabrik-Nr./Serial no./Numéro de série	
<input type="text"/>		<input type="text"/>	
-		Jahr / Year	<input type="text"/>
Volumenstrom m ³ /min	<input type="text"/>	n/min. / r.p.m.	<input type="text"/>
Free air delivery Scfm	<input type="text"/>	kW	<input type="text"/>
Betriebsüberdruck bar	<input type="text"/>	CE	KB 73708
Max. working press. psig	<input type="text"/>		
		Fertigungsstand / Modification no. / No. de modification	
		<input type="text"/>	
		Anlage/Unit/Groupe	
		<input type="text"/>	
		Kompressorblock / Compressor block / Bloc compresseur	
		<input type="text"/>	



ACHTUNG

Nur Schrauben und Stiftschrauben der Qualität 8.8 verwenden!



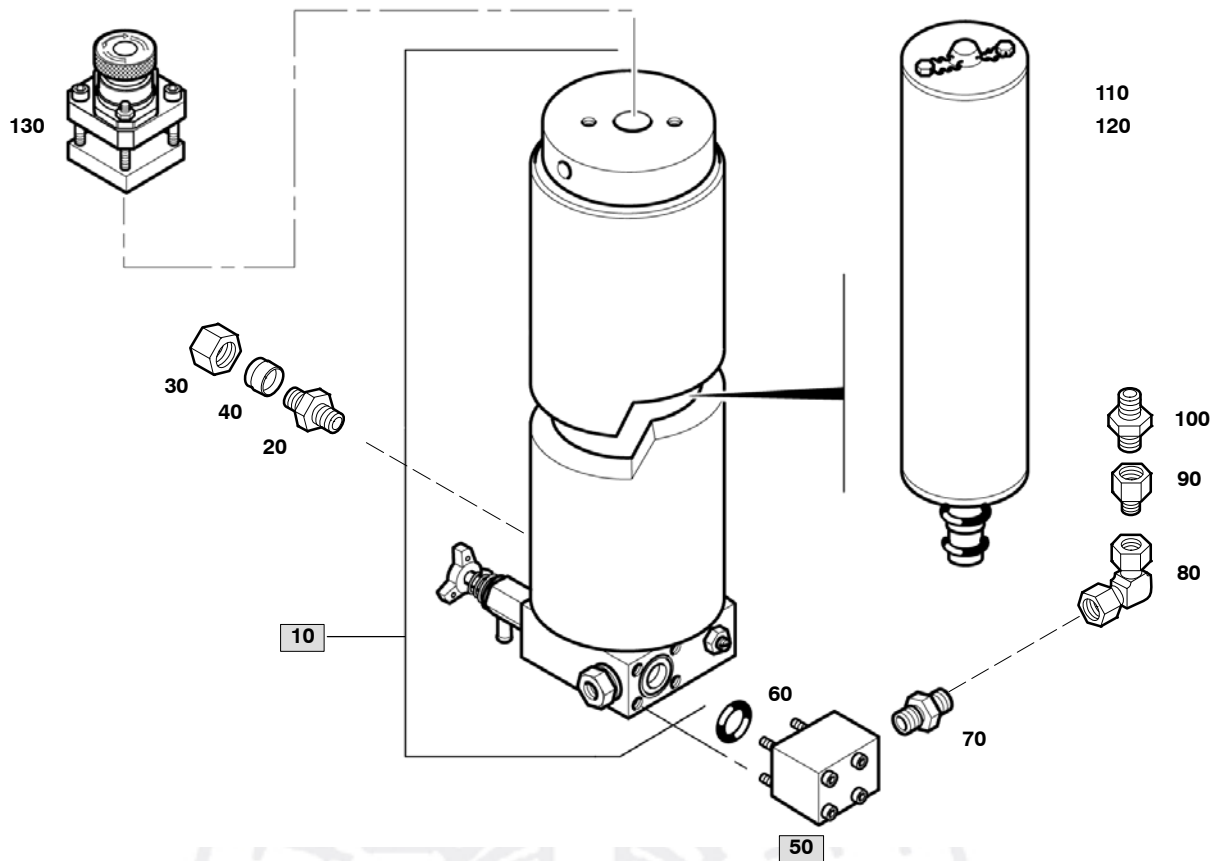
ATTENTION

Use only screws and studs in quality 8.8! This quality is equivalent to SAE J 429 d grade 5.



ATTENTION

N'utiliser que des vis et des goujons filetés de la qualité 8.8!



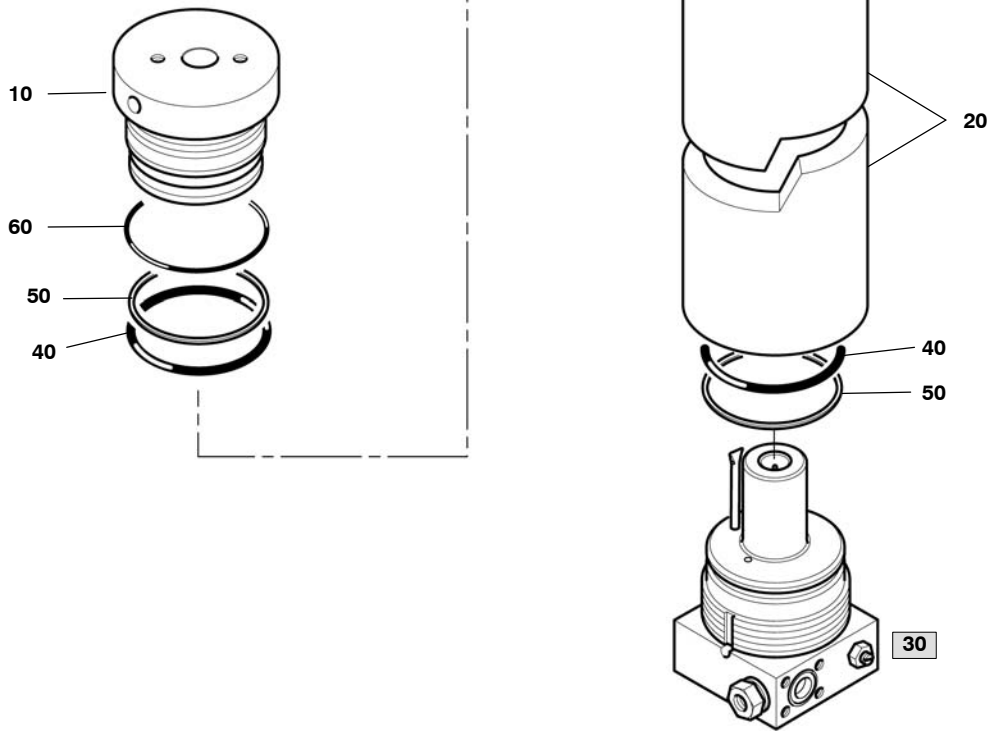
Wartungssätze Maintenance kits Kits d'entretien			B61.1- 1 80067		Filtersystem P31	Filter system P31	Système de filtration P31	
			a	b	c	Pos.	Bestell-Nr. Part No. No. de cde.	Anz. Qty. Qté.
			10	79873-EU	1	Filter P31 (ohne Patrone)	Filter P31 (without cartridge)	Syst. P31 (sans cartouche)
			20	N20404	1	G-Einschraubstutzen	male connector	raccord droit mâle
			30	N3608	1	Überwurfmutter	cap screw	écrou
			40	N3609	1	Schneidring	cutting ring	écrou borgne
			50	80555	1	Rückschlagventil	check valve	clapet anti-retour
			60	N24788	1	O-Ring	o-ring	joint torique
			70	N20287	1	G-Einschraubstutzen	male connector	raccord droit mâle
			80	N20270	1	Einst. W-Stutzen	adjustable elbow connector	raccord droit mâle
			90	N23107	1	Manometer-Aufschraubstutzen	adjustable elbow connector	raccord droit mâle
			100	65363	1	Unimam-Verschraubung	adjustable elbow connector	raccord droit mâle
			110	80100	1	Filterpatrone H ₂ O/Ol	filter cartridge H ₂ O/oil	cartouche de filtre H ₂ O/huile
			120	80114	1	Filterpatrone H ₂ O/Öl/CO	filter cartridge H ₂ O/oil/CO	cartouche de filtre H ₂ O/huile/CO
			130	059410	1	Sicherheitsventil	safety valve	soupape de sûreté

*

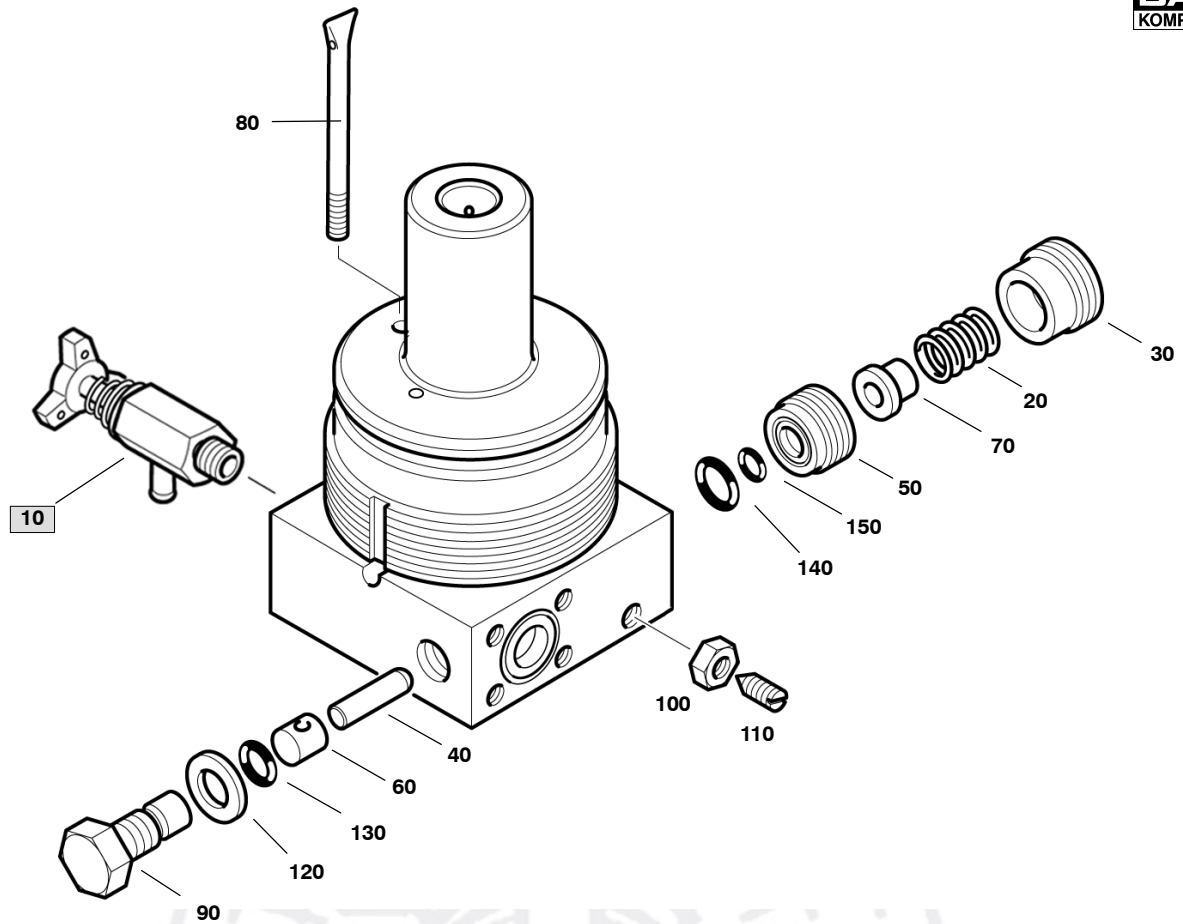
Druck bei Bestellung angeben

Indicate pressure on order

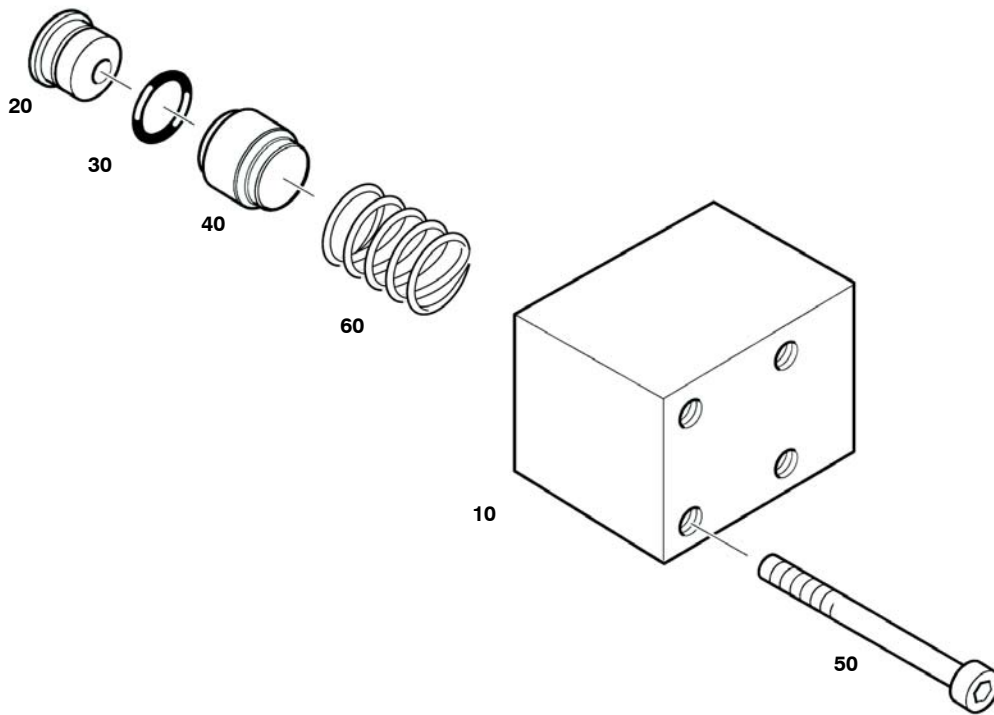
Indiquer la pression sur la commande



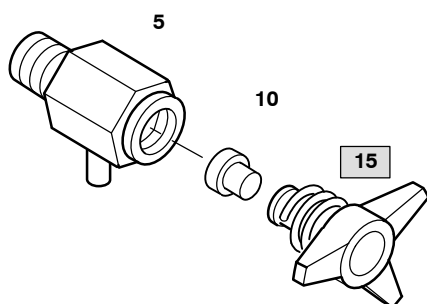
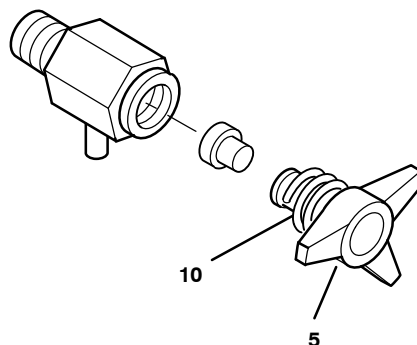
Wartungssätze Maintenance kits Kits d'entretien			B61.1- 2 79873-EU Filter P31			Filter P31			Filtre P31		
a	b	c	Pos.	Bestell-Nr. Part No. No. de cde.	Anz. Qty. Qté.	Benennung	Designation	Dénomination			
			10		1	Filterkopf	filter head	tête de filtre			
			20		1	Filtergehäuse	filter housing	corps du filtre			
			30		1	Filterboden kpl.	filter base assy	base de filtre			
			40	N4735	2	O-Ring	o-ring	joint torique			
			50	N4736	2	Stützring	backup ring	bague d'appui			
			60	N4784	1	O-Ring	o-ring	joint torique			



Wartungssätze Maintenance kits Kits d'entretien			B61.1- 3						
			Filterboden			Filter base		Base du filtre	
a	b	c	Pos.	Bestell-Nr. Part No. No. de cde.	Anz. Qty. Qté.	Benennung	Designation	Dénomination	
			10	011430	1	Kondensatablaßhahn kpl.	condensate drain tap assy.	robinet de purge des condensats cpl.	
			20	2623	1	Druckfeder	spring	ressort de pression	
			30	57935	1	Einstellschraube	adjusting screw	vis d'ajustage	
	X		40	78106	1	Zylinderstift	cylindric pin	tige cylindrique	
			50	78536	1	Aufnahme	seat	siège	
			60	78688	1	Ventilkolben	valve piston	piston	
			70	79199	1	Federaufnahme	spring seat	siège de ressort	
			80	80068	1	Spritzrohr	nozzle		
			90	91038	1	Ventilsitz	valve seat	siège de soupape	
			100	N3837	1	Sechskantmutter	hex nut	écrou hex.	
			110	N27297	1	Gewindestift	set screw	goujon fileté	
			120	N4602	1	USIT-Ring	usit-ring	joint usit	
			130	N23166	1	O-Ring	o-ring	joint torique	
			140	N24927	1	O-Ring	o-ring	joint torique	
			150	N25503	1	O-Ring	o-ring	joint torique	

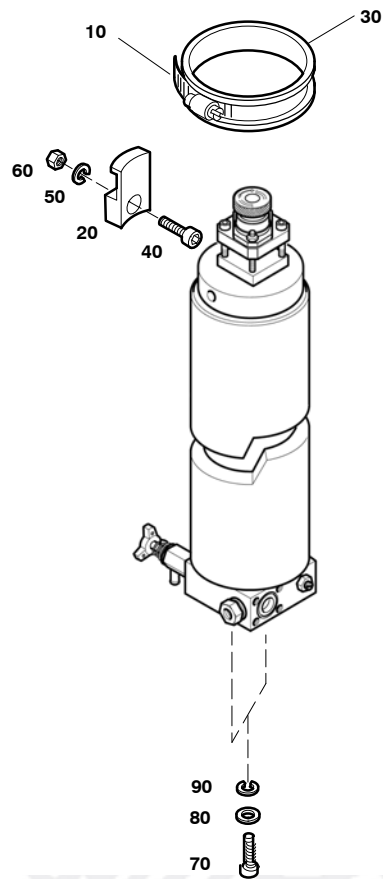


Wartungssätze Maintenance kits Kits d'entretien			B61.1- 4 80555		Rückschlagventil	Check valve	Clapet anti-retour	
a	b	c	Pos.	Bestell-Nr. Part No. No. de cde.	Anz. Qty. Qté.	Benennung	Designation	Dénomination
			10	80552	1	Ventilkörper	valve housing	corps de soupape
			20	80716	1	Rückschlagventilsitz	valve seat	siège de soupape
X			30	N29166	1	O-Ring	o-ring	joint torique
			40	056674	1	Ventilkolben	valve piston	piston
			50	N19539	4	Innensechskantschraube	allen screw	vis à six pans creux
			60	3089	1	Druckfeder	spring	ressort


B61.1- 5

B61.1- 5a

Wartungssätze Maintenance kits Kits d'entretien			B61.1- 5 011430 Ablaßhahn Drain valve Robinet de purge					
			Pos.	Bestell-Nr. Part No. No. de cde.	Anz. Qty. Qté.	Benennung	Designation	Dénomination
a	b	c	5	068410	1	Ablaßhahnkörper, kpl.	drain valve housing	corps de robinet de purge
			10	13283	1	Dichtung	gasket	joint
			15	055888	1	Knebelschraube m. Feder	tommy screw with spring	molette avec ressort

Wartungssätze Maintenance kits Kits d'entretien			B61.1- 5a 055888 Knebelschraube kpl. Tommy screw assy. Molette cpl.					
			Pos.	Bestell-Nr. Part No. No. de cde.	Anz. Qty. Qté.	Benennung	Designation	Dénomination
a	b	c	5	11392	1	Knebelschraube	tommy screw	molette
			10	13284	1	Sicherungsfeder	locking spring	ressort d'arrêt



Wartungssätze Maintenance kits Kits d'entretien			B61.1- 6 81665			Befestigungssatz Installation set Kit de fixation		
			Pos.	Bestell-Nr. Part No. No. de cde.	Anz. Qty. Qté.	Benennung	Designation	Dénomination
a	b	c						
			10	N17054	1	Rohrschelle	tube clamp	collier
			20	61875	1	Halterung	fitting	fixation
			30	N15500	mm	Gummiprofil	rubber profile	bande caoutchouc
			40	N19534	1	Zylinderschraube	allen screw	vis six pans creux
			50	N100	1	Federring	lock washer	rondelle élastique
			60	N287	1	Sechskantmutter	hex. nut	écrou
			70	N19547	2	Zylinderschraube	allen screw	vis six pans creux
			80	N58	2	Scheibe	washer	rondelle
			90	N108	2	Federring	lock washer	rondelle élastique

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