...a product of BEKA

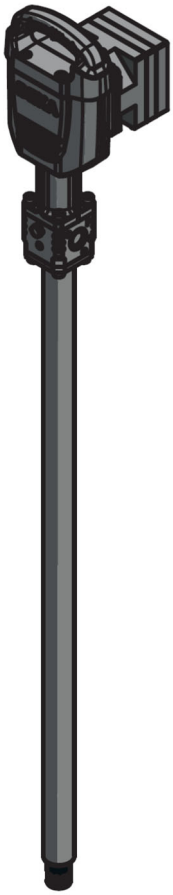
Barrel pump

BEKA Stream E

Article-no. 2520 ….; 2521 ….

Revision 07-2020

Original operating- and assembly manual



BAL2520_2521_Barrel_pump_Stream_E_0720EN

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1. Technical data

1.1 General

Pump

Delivery rate: ..... 120 cm³/min
Lubricant: ..... greases up to NLGI class 2 without solid contents (other delivery quantities on demand)
Operating pressure basis system: ..... max. 350 bar (pressure limiting valve not enclosed in delivery)
Operating pressure single line system: ..... max. 350 bar (pressure limiting valve set to 240 bar)
Operating temperature: ..... -40°C up to +65°C (depends on lubricant)
Number of outlets: 1
Pressure connection: 1x G1/2
Return connection (integrated in pump pipe): 1x G1/2
Sound pressure level: ..... <70dB(A)

Motor

Drive type: ..... electric motor
Motor power: ..... 0,18 kW
Motor voltage: ..... 24V DC
Current consumption: ..... max. 15 A
Connection type: ..... cable (10 meter)
Protection type: ..... IP 65

1.2 Single pump

Weight: ..... 19,1 kg

1.3 Pump – barrel version

Barrel capacity: ..... 213 l (200kg)

1.4 Pump – container version

Container capacity: ..... 41 l (60 lbs) / 54 l (90 lbs) / 68 l (120 lbs)

1.5 Solenoid valve – single line version

Operating voltage: ..... 24V DC
Nominal power: 26W
Protection type: ..... IP 65

1.6 Level monitoring

Operating voltage: ..... 10 up to 30V DC
Current consumption: ..... 15A at 24V DC
Electric version: ..... DC PNP NO
Connection plug: M12X1, 4-poles
Protection type: ..... IP 67

Please see the attached data sheets and manuals of the corresponding manufacturers for missing details and further technical data.

The **barrel pump** is subsequently called a **device.**

2. Applicable documents

Technical documentation of individual parts enclosed:

Level switch

Caution! **Please observe these documents for all work with and at the device!**

3. Order key

Pump without accessories

Version for the following systems:
Progressive system
Dual-line system
Single-line system with and without relief valve at the pump pipe

Code construction type no.: 2520 **(pump without accessories)** **2520 1 1 1 80 0000**

Voltage	24V DC		
Code number	1		
Delivery capacity	max. 120 ccm/min		
Code number	1		
Relief valve at pump pipe* (Only for single-line systems)	without	24 V DC (directly at pump pipe incl. PLV)	
Code number	0	1	
For barrel size** max. capacity	400 LBS*** 213l / standard size 180 kg		
Code number	80		
For container size max. capacity	60 LBS*** 41l	90 LBS*** 54l	120 LBS*** 68l
Code number	10	20	30
Special versions	without		
Code number	0000		

* If the relief valve is required directly at the pump pipe for a single-line pump, select 1.
This is mainly the case when planning a new single-line system.
If the pump is to be integrated into a single-line system that has a separate relief valve, select 0.
This is mainly the case when replacing existing pumps.

** Always indicate the following values: barrel height

***Indication in pounds (LBS) is to be understood as parameter for barrels and containers

Pump with accessories

Version for the following systems:
Progressive system
Dual-line system
Single-line system with and without relief valve at the pump pipe

Code construction type no.: 2521
(pump with accessories)

2521 1 1 1 10 0 0 00

Voltage	24V DC			
Code number	1			
Delivery capacity	max. 120 ccm/min			
Code number	1			
Relief valve at pump pipe* (Only for single-line systems)		without	24V DC (directly at pump pipe incl. PLV)	
Code number		0	1	
For barrel size** max. capacity	400 LBS*** 213l / standard size 180 kg			
Code number	80			
For container size max. capacity	60 LBS*** 41l	90 LBS*** 54l	120 LBS*** 68l	
Code number	10	20	30	
Empty signal	without	visual	electrical	visual + electrical
Code number	0	1	2	3
Follow-up piston	without	with		
Code number	0	1		
Special versions	without			
Code number	00			

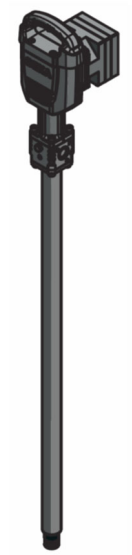
* If the relief valve is required directly at the pump pipe for a single-line pump, select 1.
This is mainly the case when planning a new single-line system.
If the pump is to be integrated into a single-line system that has a separate relief valve, select 0.
This is mainly the case when replacing existing pumps.

** Always indicate the following values: barrel height and barrel internal diameter

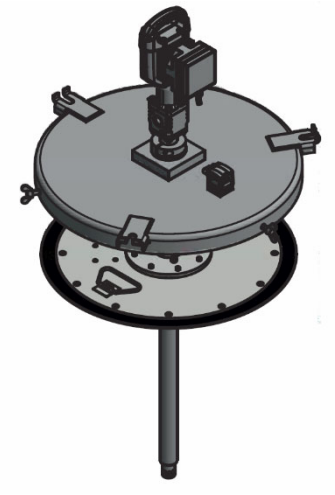
***Indication in pounds (LBS) is to be understood as parameter for barrels and containers

4. Version

Pump

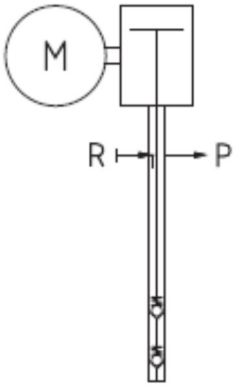


Pump - barrel version

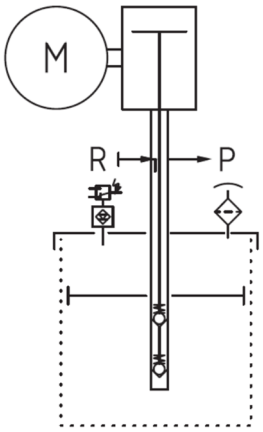


Pump container - version

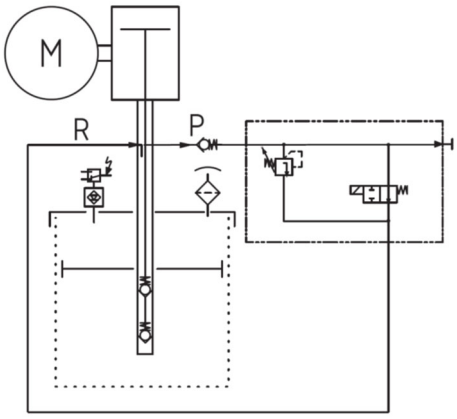
Symbol



Symbol (basis system)



Symbol (single line system)



5. General safety instructions

All persons that are in charge with the assembly, start-up, maintenance and operation of the device must carefully read these instructions. Furthermore, this manual must permanently be available at the site of operation!

Basic notes for setup, operation and maintenance can be found below.

5.1 Safety instructions

Please observe the safety instructions within this main point as well as special safety instructions that are included in other parts of this documentation.

Warning of electrical voltage.

Safety instructions, which in case of non-observance might cause hazards to persons, are marked with the general danger symbol.

This symbol warns of hot surfaces.

Warning of suspended loads.

Warning of material damage due to electrostatic discharge! Marks potential risks which may result in material damage, if not avoided.

Caution! This heading is used if the improper or general non-observance of the operating manual, specified work flow and the like might result in device damage.

Notice! This term is used to point out particular details.

Instructions which are directly attached to the device have to be strictly observed and kept in readable condition!

5.2 Qualification and training of staff

The staff in charge for operation, maintenance, inspection and assembly has to have the according qualification for these tasks. Competence, responsibility and supervision of staff must be clearly defined by the operator. In case the staff does not have the necessary knowledge it has to be instructed and trained accordingly. The operator is obliged to ensure that the staff fully understands the contents of this user information.

5.3 Hazards in case of non-observance of the safety instructions

Results of **non-observance** of the **safety instructions** can be **hazards to persons**, the environment and for the device. Non-observance of the safety instructions may result in the loss of any liability claims. In detail the non-observance could entail the following hazards:

- Failure of important device functions.
- Failure of prescribed methods for maintenance and repair.
- Danger to persons by electrical, mechanical and chemical effects.
- Danger to the environment by leakage of hazardous substances.

5.4 Obligations of the operator / user

- If movable, rotating, hot or cold parts of the device bear risks, the customer must protect these parts against contact. This protection must not be removed.
- Any leakages of hazardous substances must be drained in a way that no risks for persons or the environment arise.
- Keep to all legal provisions.
- Hazards due to electricity are to be excluded.
- Examination of pipes and hoses regarding safe provision, use, proper assembly and function has to be carried out according to regionally applicable directives. Inspection intervals may not be exceeded.
- Defective pipes or hoses must be replaced immediately and professionally.
- Hydraulic hoses and polyamide pipes are subject to a natural aging-process and thus have to be exchanged in regular intervals according to the manufacturer's specifications.
- A safety data sheet of the currently used lubricant must be provided at the device.

5.5 Safety instructions for maintenance, inspection and assembly

All **maintenance**, **inspection** and **assembly work** may only be carried out by **qualified personnel** who is sufficiently informed by thorough reading of the user information.

Generally any work at the device may only be carried out at **complete standstill** and in **pressureless** as well as **disconnected condition**. Furthermore appropriate **personal protective equipment** (goggles among others) is necessary. The shutdown procedure of the device as described in the manual must be strictly followed.

Secure the device against intentional or unintentional recommissioning during maintenance or repair. All safety and protection arrangements have to be put back in place again immediately after finishing work.

Environmentally hazardous media must be disposed of professionally and in correspondence to relevant legal provisions. **Polluted** and **contaminated surfaces** have to be cleaned before maintenance. Please wear protective equipment to that purpose. See the lubricant manufacturers' safety data sheets hereto, respectively the data sheets provided by the manufacturers of auxiliaries and working materials.

Check the surface temperature of the device as a possible heat transfer bears the **risk of burns**. Wear heat resistant protective gloves!

Open flame and fire are strictly forbidden during maintenance, inspection and repair due to fire hazard.

5.6 Unauthorized modification and production of spare parts

Modification, repair and alterations of the device are only accepted after manufacturer feedback. **Original spare parts** and authorized accessories from the manufacturer contribute to **safety**. The use of other parts can result in the loss of any liabilities for the resulting consequences. BEKA does not assume liability for parts that are retrofit by the operator.

5.7 Inadmissible modes of operation

The operational safety of the device is only guaranteed for appropriate application as indicated in the operating manual. Never exceed or fall below the limit values, as stated in the technical data.

5.8 Electrostatic discharge

Avoid electrostatic discharge! There are electronic components integrated into the devices which might be destroyed by electrostatic discharge. Observe the safety precautions against electrostatic discharge according to DIN EN 61340-5-1/-3. Ensure that the environment (persons, workplace and packing) is well grounded when handling these devices.

5.9 General hazard warning – residual risk

All components are designed according to valid regulations of the construction of technical systems in regards to operational safety and accident prevention. Independently from this the use can lead to hazards for the user or third parties as well as for other technical facilities. Therefore, the device may only fulfil its intended use in a **technically acceptable and faultless condition**. This has to happen in adherence of the according safety regulations and under observance of the operating manual. **Inspect** the device and its attachment parts **regularly** and **check** them for possible **damage** or **leakages**. **Liquids** could **escape under high pressure** from pressurized components which become **leaky**.

6. Intended use

Caution!

The device is **only** approved for the **industrial use.**
Only operate the device if it is installed in/to another machine and operated together with it.
Use only lubricant according to the machine manufacturer's specification, that is suitable for the central lubrication system.
The device must only be used according to the technical data (see chapter 1 „technical data"). Never exceed or fall below the mentioned values. Never operate the device without lubricant.

Unauthorized alterations of the device are **not permitted**. BEKA is not liable for damage of machine or persons that results thereof.

Use according to the regulations means also:

- Observance of all chapters and notes in the operating manual.
- Carrying out all maintenance work.
- **Observance** of all regulations concerning **work safety and accident prevention** during all life cycles of the device.
- Having the necessary professional training and authorization of your company to operate the device and to carry out the necessary work.

Caution! **Another use or a use beyond this is deemed improper.**

7. Scope of warranty

Warranties regarding operational safety, reliability and performance will only be granted by the manufacturer if the device is used according to the regulations and under the following conditions:

- Assembly, connection and maintenance are carried out by authorized professional staff.
- The device is only used according to the operating manual.
- Never exceed or fall below the limit value indicated in the technical data.
- Modifications and repairs at the device may only be done by BEKA.

Caution!

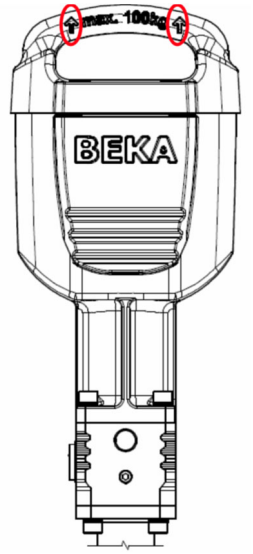
Guarantee and warranty for any damage at the device caused by improper lubricant (e.g. wear of piston, piston jamming, blockades, brittled sealings etc.) will expire.
BEKA will generally not assume guaranty claims for any damage caused by lubricants, although those have been laboratory tested and released by BEKA, as such damage (e.g. by over-stored or incorrectly stored lubricants, batch fluctuations, etc.) cannot be verified or reconstructed later.

8. Transport and storage

Use suitable lifting devices for transport.
Do not **throw** the device or impose it to **shocks**.
Secure the device against toppling down or slipping during transport.
The device may only be transported when it is completely drained. The barrel version implies that the device is transported without barrel.

Caution!

Please note the max. load of 100 kg when lifting the device at the bow. The device may only be lifted without barrel or container.



Observe all valid safety and accident prevention regulations for the transport. Wear suitable **protective equipment** if necessary. **Keep adequate distance to suspended loads**. The transport help or the elevating device must have the **adequate carrying capacity**.

When storing the device pay attention that the storage area is cool and dry in order to avoid corrosion of the individual parts of the device.

9. Assembly instructions

Check the device for possible transport damage and for completeness before the assembly. Any installed equipment for transportation safety has to be removed.

Comply with the following conditions for assembly of the device in order to obtain a properly built together machine of all parts without compromise of safety or persons' health:

Assemble the device in balance on the installation location in order to ensure safe operation. Observe the information on the fastening holes given in the dimensional drawing. When selecting the set-up location, please mind that the device should be protected against ambiental and mechanic influences. Ensure full access, e.g. for filling with lubricant.
Special measures concerning noise prevention or oscillation reduction do not have to be taken.

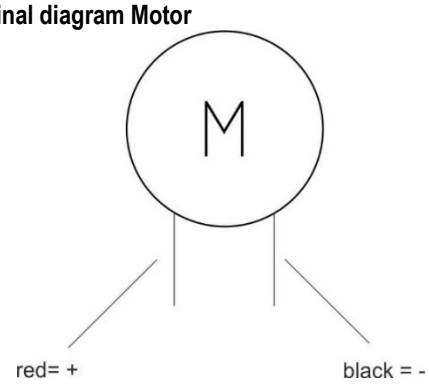
9.1 Line assembly

- Professional layout!
- When using pipes, observe that they are clean, seamless and of precision steel!
- Assemble the pipes professionally and free from distortion!
- Pay attention to pressure tightness of fittings!
- All components must be approved for max. operating pressure (see technical data).

9.2 Power connection

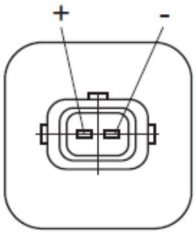
- Power supply must be done by a professional electrician!
- Electrical device components must be wired professionally!
- Compare voltage details with the existing mains voltage!
- Equipotentional bonding must be done professionally by the operator via an according ground connection!
- Wire the device according to the terminal diagram!

Terminal diagram Motor

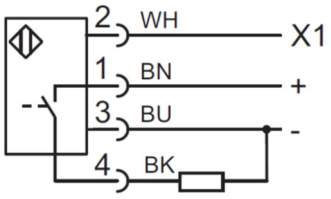


Note! If the motor braids are not connected correctly, the motor does not start to operate.

Terminal diagram of solenoid valve for single line version



Terminal diagram of level monitoring



10. Start up

10.1 Lubricant / pumping medium

The device is configured for commercial multipurpose greases up to NLGI class 2 without solid contents.
A detailed description of the barrel exchange or the container filling can be found in chapter „maintenance“.
Observe the following notes:

- Use greases with high pressure additives (EP- grease).
- Observe the machine manufacturer’s lubricant details! Only use lubricants according to machine manufacturer’s specifications!
- Collect outcoming lubricant in a suitable receptacle and dispose it professionally!
- The lubricant viscosity changes with the operating temperature.
- Check the level several times in equal intervals during the first hours of operation and refill lubricant, if necessary.
- Observe utmost cleanness when refilling the reservoir!
- Use only greases with the same saponification.
- Observe the safety data sheet of the lubricant manufacturer!

10.2 Ventilation of the lubrication system

10.2.1 General

- Ventilate the whole lubrication system with first start-up and after each lubricant change!
- Ventilation is done by operating the system in pressureless condition and with open system outlets!
- Operate the pump until lubricant comes out of the pressure connection without air inclusions.

10.2.2 Prefilling of return connection

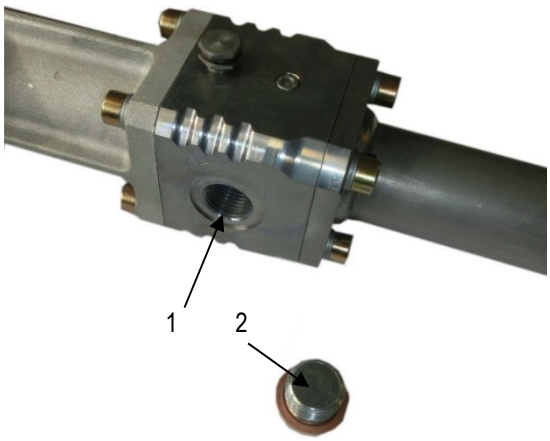
In order to avoid that air is pumped into the container / barrel, while lubricant flows back, the return connection in the pump pipe shall be filled with lubricant.

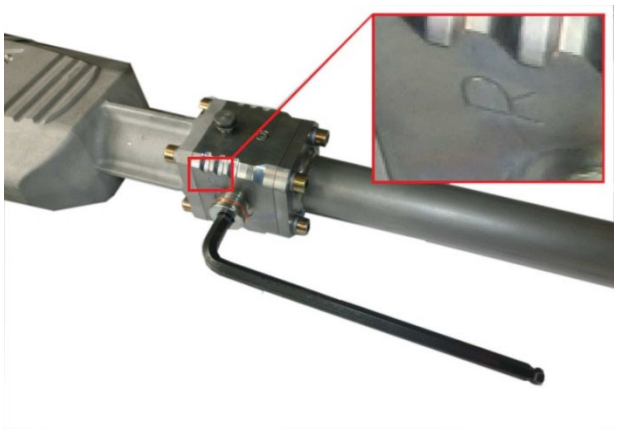
Caution! Always take care of **utmost cleanness** during the **filling**.

1. Step:

If the return connection shall be sealed, the screw plug has to be screwed out with a hexagon key AF10.

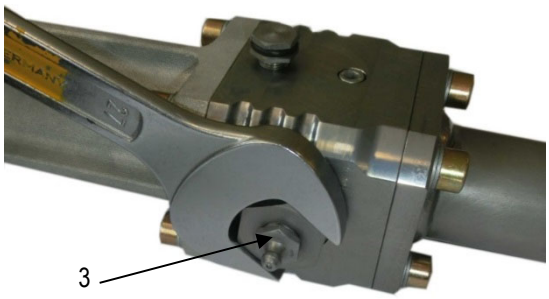
Notice! The return connection is marked with an „R“ at the pump.





2. Step

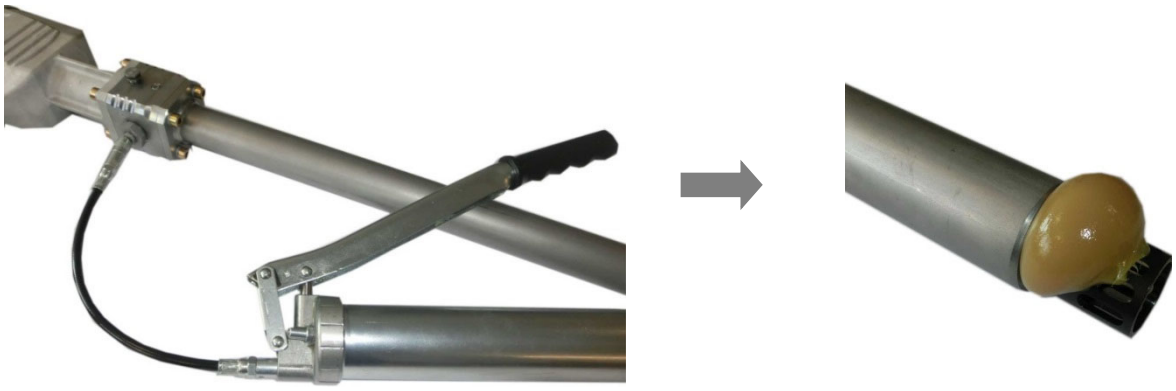
Screw the filling nipple (3) with AF 27 into the return connection (G1/2).



The filling nipple is not enclosed in delivery (see chapter accessories).

3. Step:

Fill up the return connection (G1/2) with a filling press until the lubricant flows out of the return pipe (see picture).



4. Step:

After the filling, the nipple can be demounted again. If the return connection is not used, it has to be closed again.

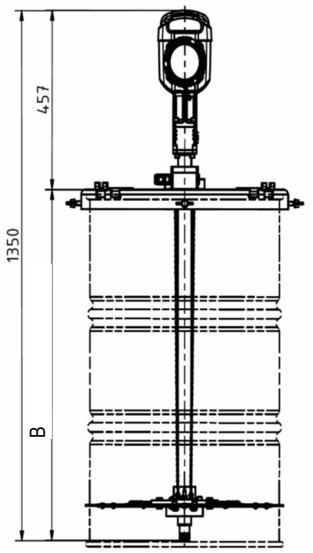
10.3 Adjustment of visual level monitoring (barrel version)

1. Step:

Evaluate height of barrel (dimension B)

2. Step:

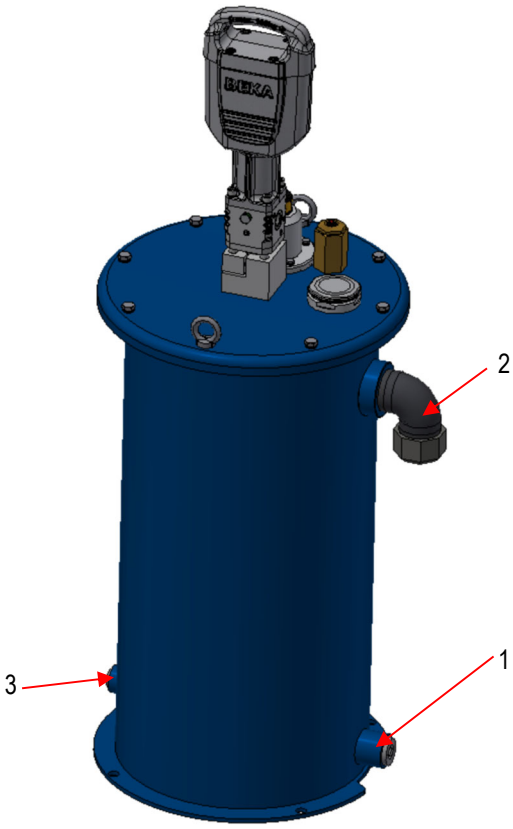
Set the visual sensor to dimension B – 7 cm (empty message). If also a prewarning is necessary, another switching point of the visual sensor at an optional height before the empty signal, shall be adjusted.



Attention! Observe the separate technical documentation of the level sensor enclosed.

10.4 Initial filling of container with lubricant

- Open the ventilation screw on the reservoir back (hexagon socket AF 10) for the initial filling.
- Remove the screw plug from the filling connection G1 (1) (hexagon socket AF 17).
- Fill up lubricant via the filling connection G1 (1) until lubricant comes out of the ventilation screw!
- Tighten the ventilation screw again.
- Other procedures are described in 8.2, lubricant filling.
- Fill up the reservoir via the filling connection G1 (1) until lubricant comes out of the overfill protection (2)!



11. Functional description

11.1 General

The device helps to supply the central lubrication system or individual lube points, with lubricant. Depending on the type of application, the pump can be used for single line, dual line or progressive systems. There are various accessories for the barrel pump BEKA Stream E, like barrel cover, follower piston or container (see accessories).

11.2 General components

11.2.1 Pump

The pump is driven by a brushless DC motor. Due to an eccentric in the housing, the rotation motion of the motor is transformed to a stroke movement of the piston rod. The delivery piston of the pump is connected with the piston rod, thus a suction and pressure stroke is effected. Hence lubricant is pumped into the end of the conveying pipe and supplied to the pressure outlet. A reverse pumping of lubricant is avoided by a non-return valve. The integrated return connection can be used to led back surplus lubricant to the barrel.

11.3 Components

11.3.1 Level monitoring

The ultra sound sensor monitors the lubricant level in the reservoir and sends a signal at minimum level. The ultra sound sensor sends a signal for barrel exchange as soon as the barrel is empty. The signal evaluation is done by the customer.

Two TEACH methods may be used to configure the sensor:

- • Teach individual minimum and maximum limits, or
- • Use Auto-Window feature to center a sensing window around the taught position.

Attention!

Also observe the technical documentation of the ultra sound sensor enclosed.
In order to avoid that air is pumped into the lubrication circulation, we recommend to switch off the device when receiving the empty signal.

11.3.2 Ventilation valve

The ventilation valve in the reservoir cover helps to filter the incoming air during the pressure compensation that is caused by varying level. The ventilation filter element has regularly to be checked and renewed at visible pollutions.

11.3.3 Grease level dipstick

When the grease level dipstick is pulled out of the reservoir, you can see the lubricant level at the stick. In order to avoid that dirt enters the reservoir, the dipstick has to be put completely into the drilling.

11.3.4 Single line block

A relief valve can be attached as a block at the pump pipe at a device for single line systems. It is directly flanged at the pressure and return connection.

11.3.5 Pressure limiting valve

Optionally, a pressure limiting valve can be attached to the device for progressive and dual line systems. It is available as component for a customer-specific attachment in the entire system or as a module for direct attachment at the pump pipe. It has an opening pressure of 280 bar.

12. Maintenance

Disconnect the device from power supply before **maintenance or repair.**
Maintenance and repair may only be carried out at **complete standstill** and under **pressureless condition**.
Check the surface temperature of the device, as there is the **risk of burns** by radiant heat. Wear heat-resistant gloves and safety goggles! Soiled or contaminated surfaces have to be cleaned before maintenance, wear protective equipment to this purpose, if necessary! Protect the device against recommissioning during maintenance/repairs!

Further information and technical details regarding the components can be found in the enclosed operating manuals of the components.

12.1 General maintenance

- Retighten all fittings 6 weeks after start up!
- Check all components for leakages and damage at least every four weeks!

If leakages are not repaired, lubricant **might come out there under high pressure**. Remove possible puddles of lubricant immediately.

12.2 Lubricant change

Caution! Observe utmost **cleanness** when refilling lubricant!

- Check the level regularly and refill clean lubricant as necessary, see chapter start up.
- Lubricant change has to be done according to the specifications of the lubricant manufacturer. Environmental influences like increased temperature or pollution may make it necessary to shorten these intervals!
- Please take care to only use lubricants that are suitable for the device as well as the lubricated machine and that comply with the requirements of the particular operating conditions.
- In case of **different lubricant manufacturers**, ensure that the lubricant **quality** corresponds to the quality of the previously used one! As precautionary measure, drain the lubricant reservoir professionally and clean it!

12.3 Filling of the container

1. Step:

Depressurize the pump and protect it against unintentional operation.

2. Step:

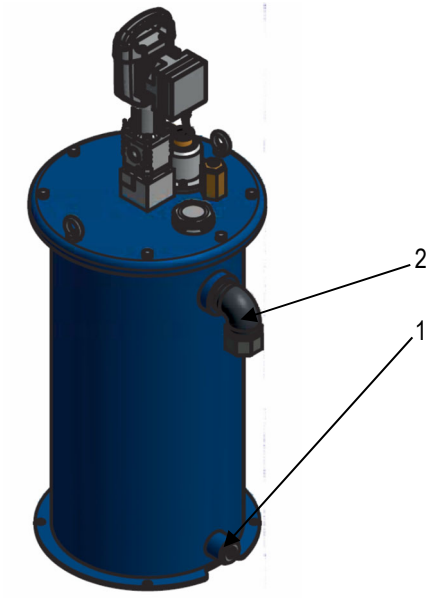
Remove the screw plug at the filling connection G1 (1) (hexagonal socket SW 17) and connect the filling pump at the filling connection of the device.

3. Step:

Slowly fill up the device with lubricant, until lubricant comes out of the overfill protection (2). Dispose surplus lubricant environmental friendly.

4. Step:

Remove the filling pump and close the filling connection (1).



12.4 Exchange of barrel

1. Step:

Depressurize the pump and lock it against unintentional operation.

2. Step:

Install suitable lifting straps or chains at the bracket (1).

3. Step:

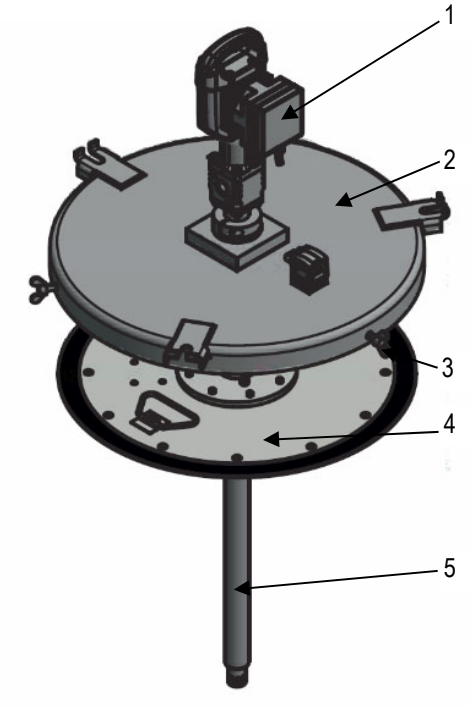
Loosen the connecting rods (if available) from the cover (2) and remove them. Unscrew the wing screws (3).

4. Step:

Pull out the device with cover, by means of a suitable lifting device. Absolutely observe the regulations for the lifting of loads. Do not lift the grease barrel. Also take care that the pump pipe (5) is not damaged or polluted.

5. Step:

Pull out the grease follower plate (4) from the empty barrel. Press the follower plate into the new barrel and install the device in reverse order. Also observe that the old and the new barrel have the same diameters and height. Tighten the three wing screws at the cover. Install the connecting rods (if available).



Attention!

Use only barrels with original grease filling!
Do not use refillable barrels.
Device may only be lifted without barrel.

13. Repair

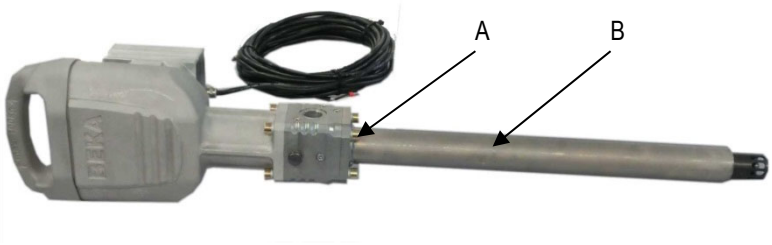
Attention!

Always take care of utmost **cleanness** during the repair works. The following description includes repairs, you can do by your own. **Other repair works** only may be done by BEKA.

13.1 Exchange of pump element

1. Step:

Demount 4 cylinder screws (A) with a hexagon socket wrench AF 6.



2. Step:

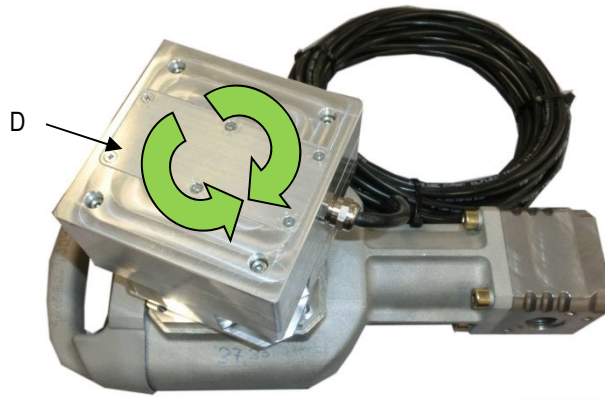
Pull off pump pipe (B).

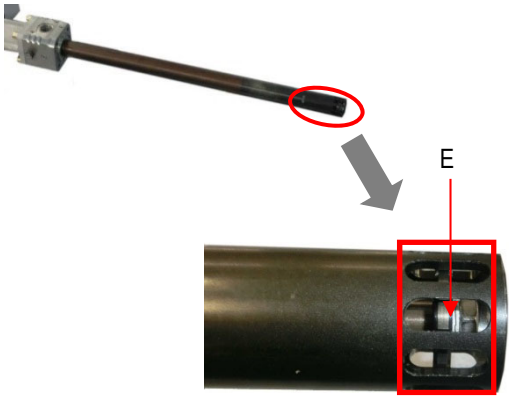
3. Step:

Disassemble 4 motor fastening screws (C) with a ring/open-ended wrench SW10.

4. Step:

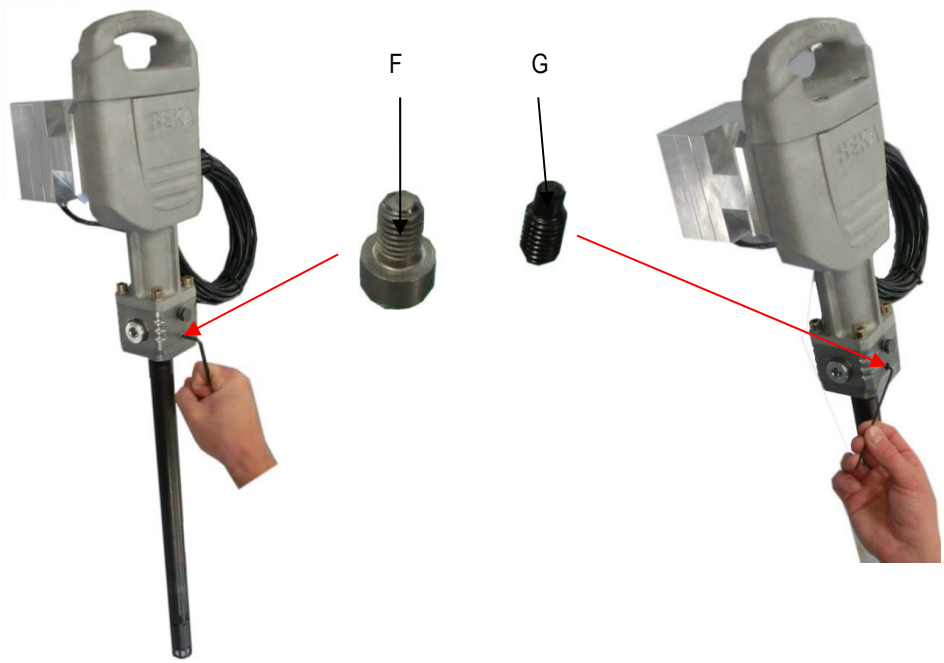
Now turn the motor (D) clockwise or counterclockwise until the suction piston (E) reaches the down position (see picture).





5. Step:

Remove both lock screws F (Hexagon socket screw AF4) and G (Hexagon socket screw AF 2,5).



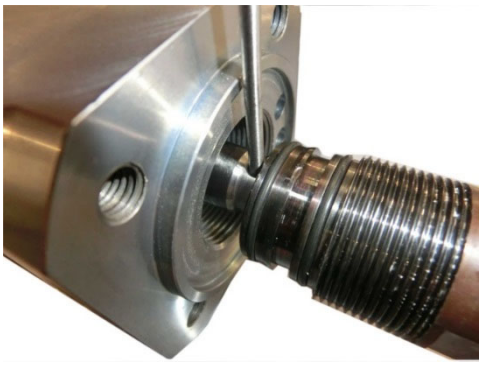
6. Step:

Unscrew the suction pipe (H) with an open-ended wrench AF26 and pull it out until stop.

7. Step:

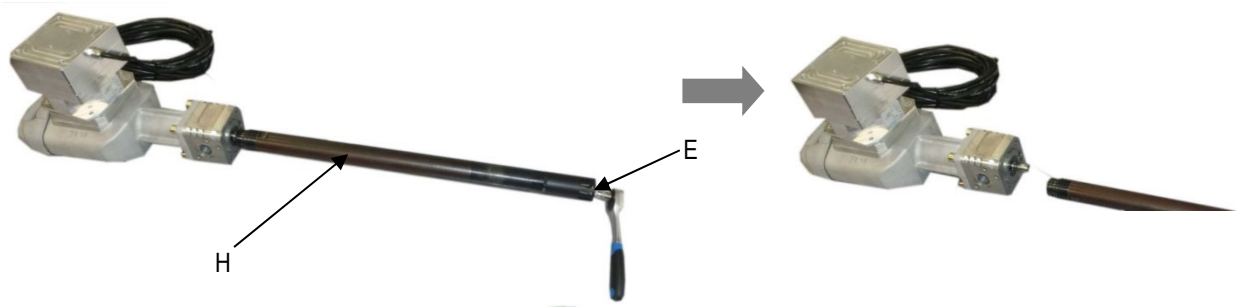
Knock out the locking pin with a drift Ø3mm and a hammer and remove it completely.

Attention! This is only possible if the suction piston is in the lower final position (see step 4).



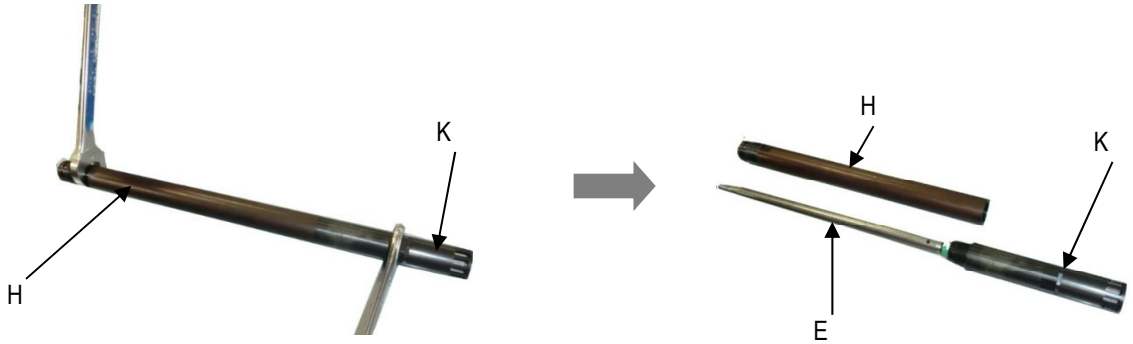
8. Step:

Now unscrew the supply pipe (H) via the hexagon (AF10) at the suction piston (E) from the pump and remove it.



9. Step:

Unscrew the pump element (K) with an open-ended wrench AF28 from the supply pipe (H). Hold up the pipe with another wrench AF26. Pull out the pump element with suction piston (E).

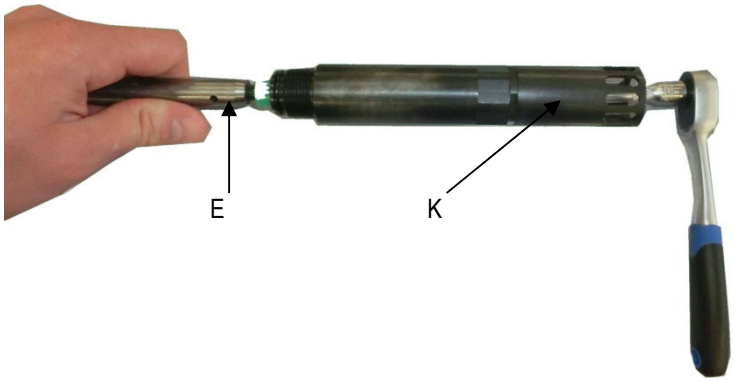


10. Step:

Demount the locking pin (L) from the suction piston (E) with a punch Ø3mm and a hammer and remove it.

11. Step:

Unscrew the pump element (K) via the hexagon (AF10) of the suction piston (E) from the piston rod and remove it.



12. Step:

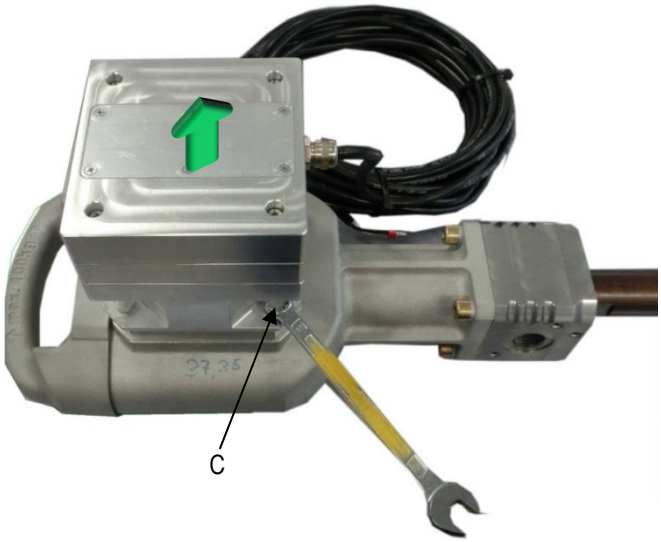
Now the pump element can be changed and the pump shall be assembled in reverse order.

Attention! All sealings must be installed correct and have no damages.

13.2 Exchange of motor

1. Step:

Disassemble 4 motor fastening screws (C) with a ring/open-ended wrench SW10.



2. Step:

The motor (D) has to be lifted up now.

3. Step:

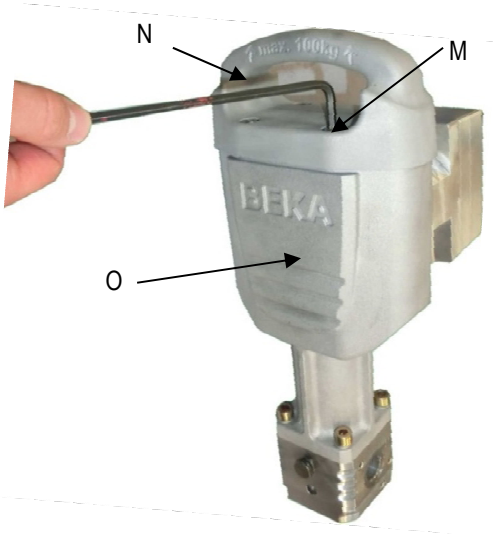
Reassemble new motor in reverse order.

13.3 Exchange of sealing bush

Please note steps 1 to 8 in chapter 13.1 „exchange of pump element“.

9. Step:

Demount 4 cylinder screws (M) at the housing cover (N) (hexagon AF5). Turn the pump in vertical position to avoid that oil flows out of the pump housing (O).



10. Step:

Take off the housing cover (N) and drain the oil. The oil is intended to be used for the entire life cycle of the pump and therefore can be reused.

Attention!

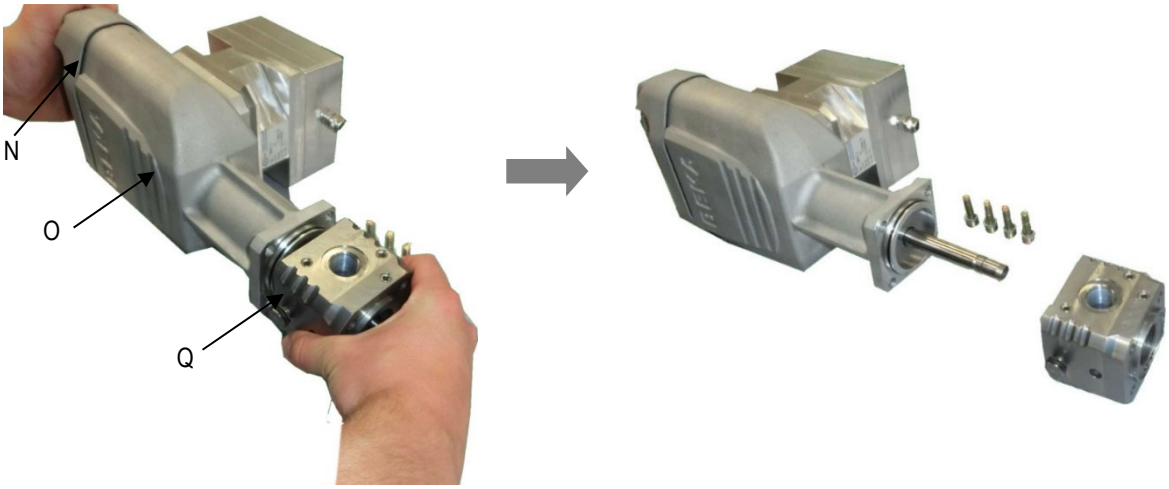
Fill in new oil, if the cover sealing (S) is damaged and has to be exchanged. The used oil can no more be used in this case.

11. Step:

Remove the 4 cylinder screws (P) from the pump housing.

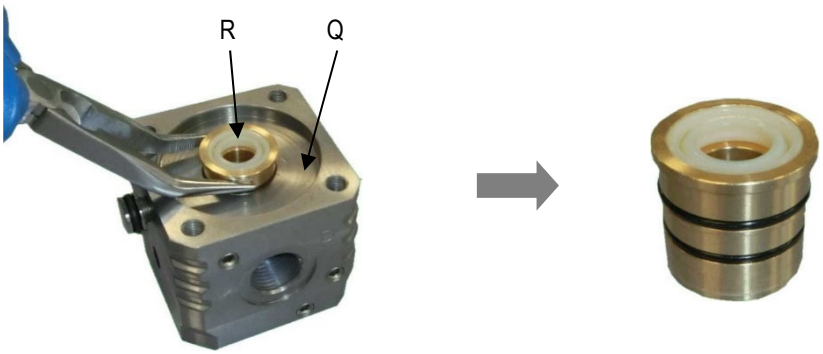
12. Step:

For a smoother demounting, the cover (N) can be fastened with the pump housing again via the 4 cylinder screws (M). Now pull off the connection piece (Q) from the pump housing (O).



13. Step:

Pull out the sealing bush (R) with a gripper from the connection piece (Q).
Now the sealing kit can be replaced by a new one.

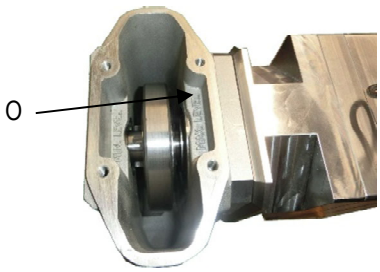


14. Step:

The device shall be reassembled in reverse order.

Attention!

All sealings have to be installed properly and must have no damages. Furthermore the pump housing (O) shall be filled with oil up to the “max. level”. Also observe the notes in step 10.



14. Shutdown

- Relieve the device from pressure!
- Turn off power supply!
- Have the device disconnected from power supply by a qualified electrician!
- Remove all pipes and hoses from the device and loosen all fastenings for disassembly!

15. Disposal

Notice!

Observe the disposal instructions of the lubricant manufacturer when lubricant is changed! Lubricants or cloths contaminated with lubricant or similar must be collected in specially marked receptacles and disposed of accordingly.
Disposal of the device must be done properly and professionally and according to the national and international laws and regulations.

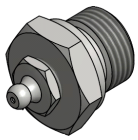
Moreover, BEKA devices could contain batteries. Professionally and properly disposed batteries will be recycled. They contain important raw materials.

16. Troubleshooting

Malfunction	Possible cause	Possible remedy
Pump supplies lubricant	Reservoir empty	Exchange barrel
	Air inclusions in lubricant	Ensure that pump can prime lubricant
Level monitoring glows	Barrel / container empty	Change barrel / fill up container
Level monitoring glows, but barrel is filled up	Level sensor defective	Replace level sensor
	Line to level sensor defective	Insert new line
No pressure is build up in pump	Sealing bush of drive piston defective.	Renew sealing bush (see 13.3)
	Suction valve of pump defective or polluted.	Renew or clean suction valve or pump (see 13.1)
	Air inclusions in lubricant	Ensure that pump can prime lubricant
Motor does not operate	Braids connected wrong	Correct connection of braids
	Motor defective	Change motor (see 13.2)

17. Accessories

17.1 Filling nipple



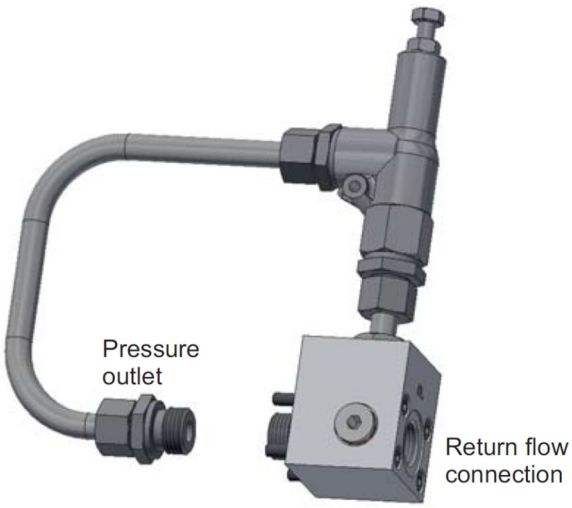
Connection thread: G1/2
Article number: 10118925

17.2 Pressure limiting valve for progressive and dual line systems

Opening pressure: 280bar
Connection thread: 2x G1/2
Article number: 10123881

Note! A pressure relief valve with an opening pressure of 240 bar is always built in for single line versions.

17.3 Module with pressure limiting valve for progressive system, for direct attachment to BEKA Stream E



Opening pressure: 280bar
Connection thread: 2x G1/2
Article number: 10126444

18. Spare part list

Will be added

19. Spare part drawing

Will be added

20. Dimensional drawing pump without accessories

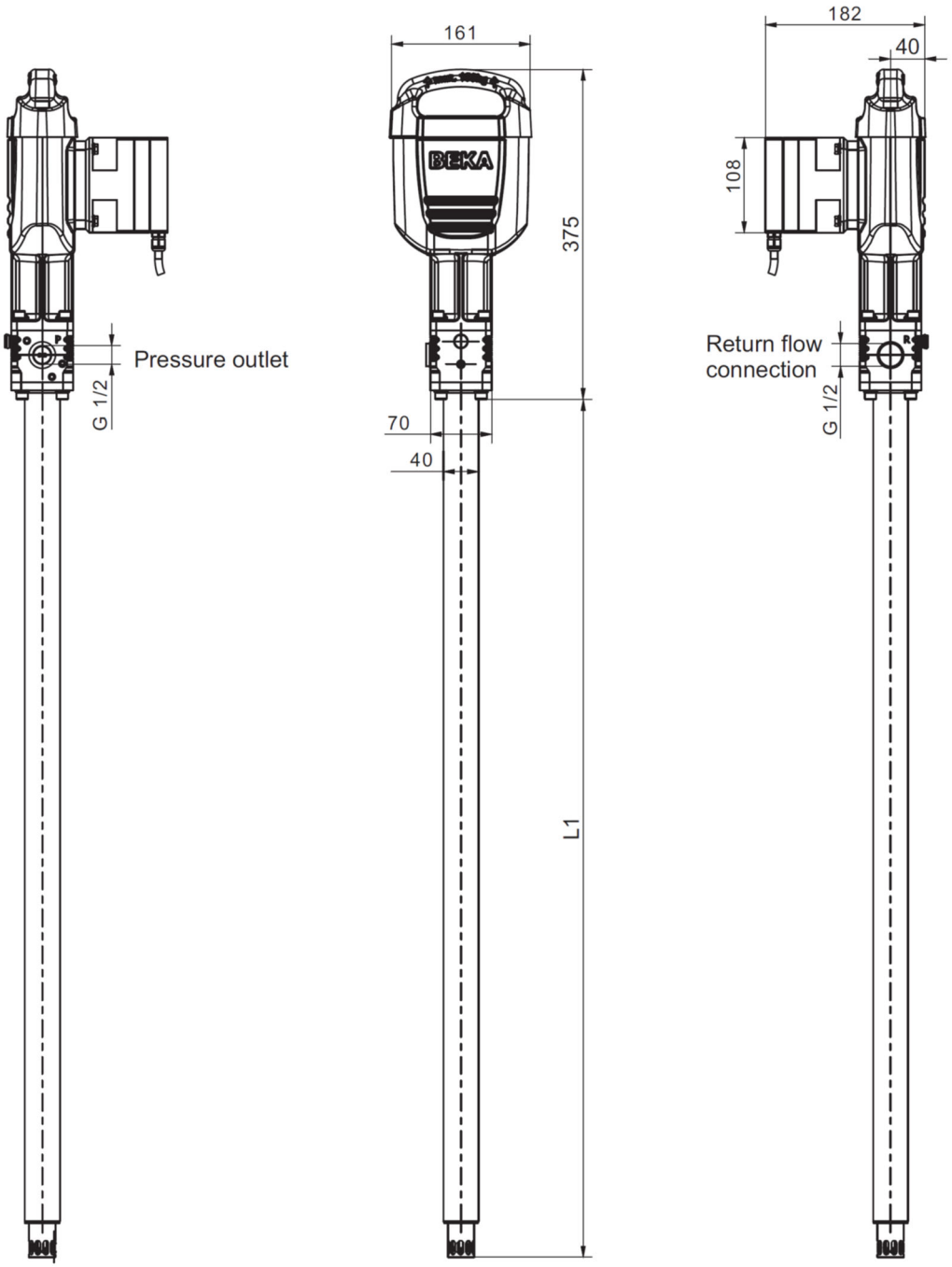


Table for dimension L1

Container capacity (l / lbs)	L1 (mm)
41 / 60	494
54 / 90	640
68 / 120	786

Barrel capacity (l / lbs)	L1 (mm)
231 / 200	975

21. Details of the manufacturer

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Commercial vehicle lubrication
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Control and monitoring units

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