Version

The barrel pumps BEKA Stream E and Stream H supply central lubrication systems or individual lube points with lubricant. There are various accessories available for both barrel pumps, such as barrel covers, follow-up pistons or containers (see accessories).

Function of Stream E and Stream H

The barrel pumps are driven by a flanged electric motor (Stream E) or hydro motor (Stream H). The rotary movement of the motor is transformed into a stroke movement of the piston rod by an eccentric in the housing. The delivery piston of the pump is firmly connected to the piston rod, which forcibly triggers a suction and pressure stroke. Hence, the lubricant is drawn into the suction bore at the lower end of the delivery pipe and is delivered to the pressure connection. The integrated return connection at the pump can be used to return lubricant from the pressure relief processes and pressure limiting valves directly back into the lubricant barrel via the pump pipe.

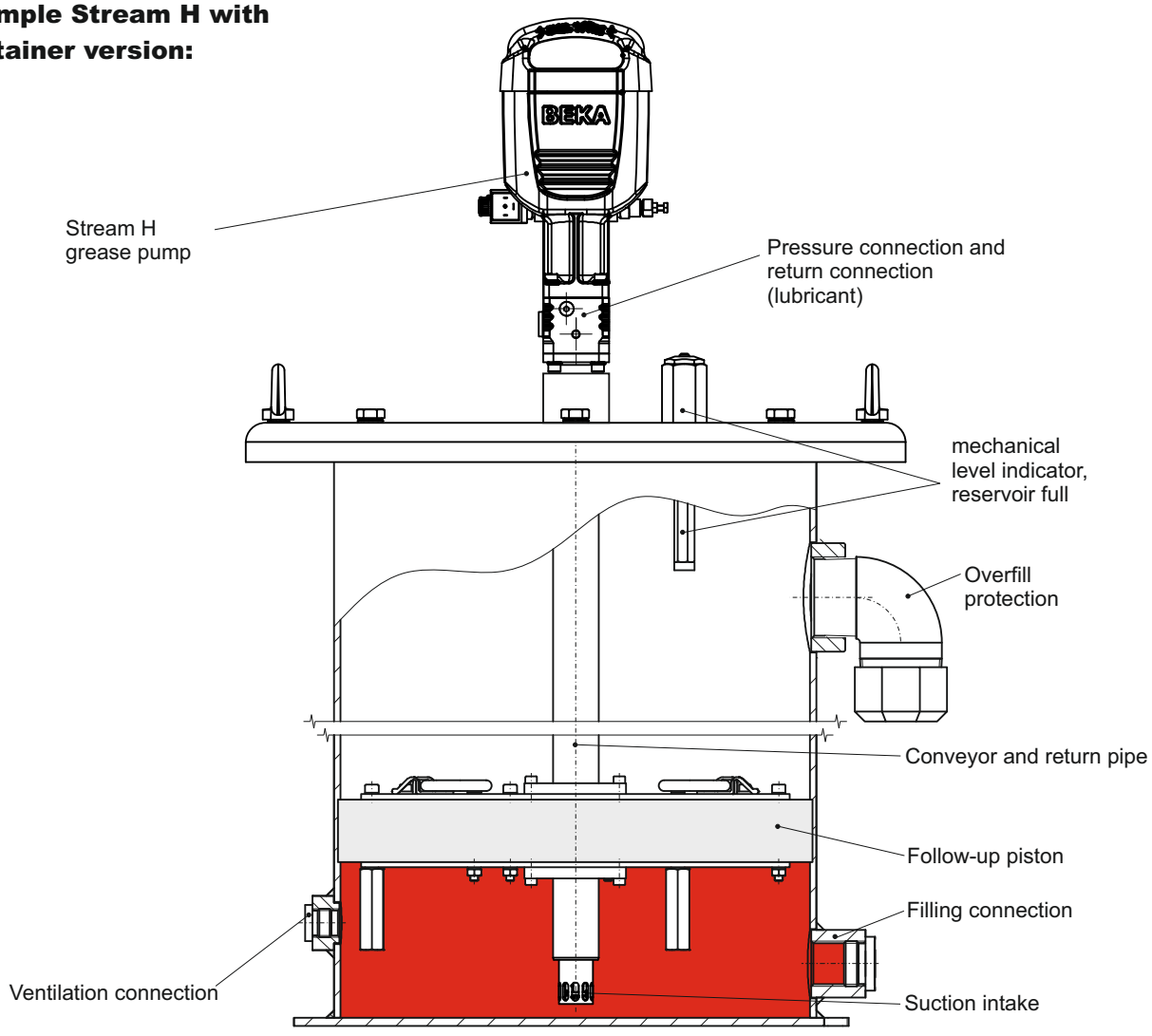
Use

The pumps are used as progressive, single-line or dual-line pumps in industrial machines as well as in medium-sized and large construction machines.

Special features for single-line pumps

For single-line pumps it is also possible to have the required relief unit built directly into the pump pipe.

Example Stream H with container version:



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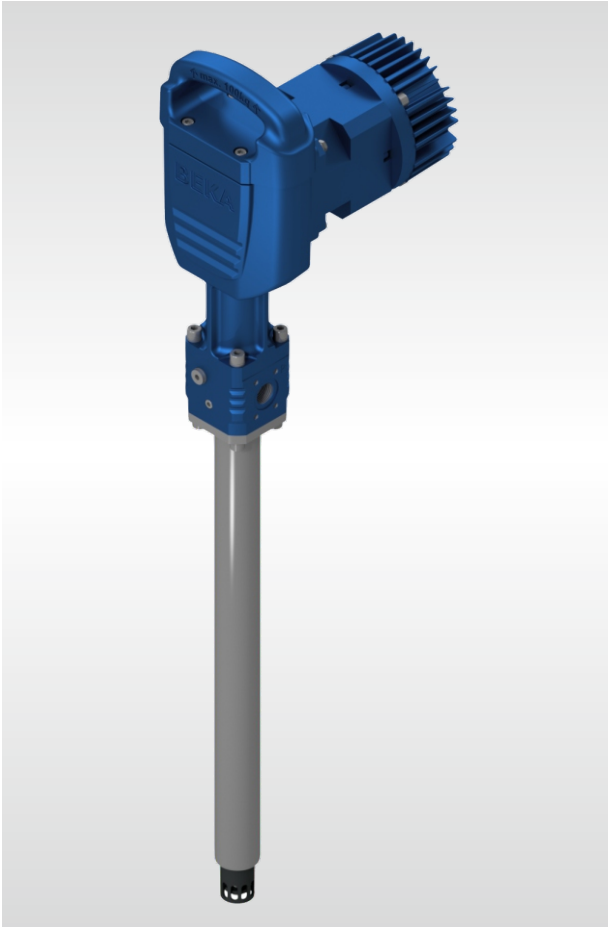
Technical data

Pump

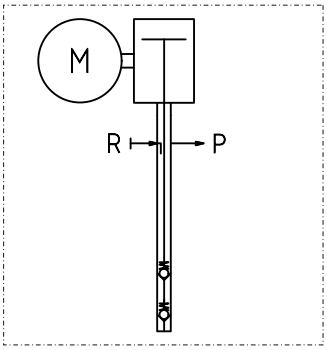
Delivery volume at 20 °C / 68 °F:	120 cm³/min
Operating pressure:	max. 350 bar / 5076 psi
Pressure limiting valve	
Progressive / dual-line system:	see Stream accessories
Single-line system:	set to 240 bar / 3480 psi
Lubricant:	greases up to NLGI cl. 2 without solid contents (other lubricants on request)
Operating temperature:	-40 up to +65 °C -40 up to +149 °F (depending on the lubricant)
No. of outlets:	1
Pressure connection:	G1/2
Return connection (integrated in pump pipe)	
Progressive / dual-line system:	closed
Single-line system:	G1/2
Drive:	electric
Connection type:	cable (from motor 10 m cable length, open cable end, included in delivery)

Electric motor

Voltage:	24V DC
Current consumption:	max. 15A
Motor power:	0.18 kW
Degree of protection:	IP 65
Weight (pump alone):	19.1 kg



Symbol



Special features of BEKA Stream E:

- **Modern and reliable supply of lubricant:** Constant delivery rate due to DC motor and maintenance-free gearbox
- **Possibility of returning grease** into the reservoir via double-walled pump pipe (e.g. from relief processes or the pressure limiting valve)
- Return connection can be used as **filling option** via double-walled pump pipe
- No separate return pipe installed, thus **easier barrel change** (barrel version)
- **Robust construction type** ensures **reliable use in mining and outdoor applications**
- **Reliable lubricant supply** even at **extreme ambient temperatures:** -40°C up to 65°C (-40°F up to 149°F)

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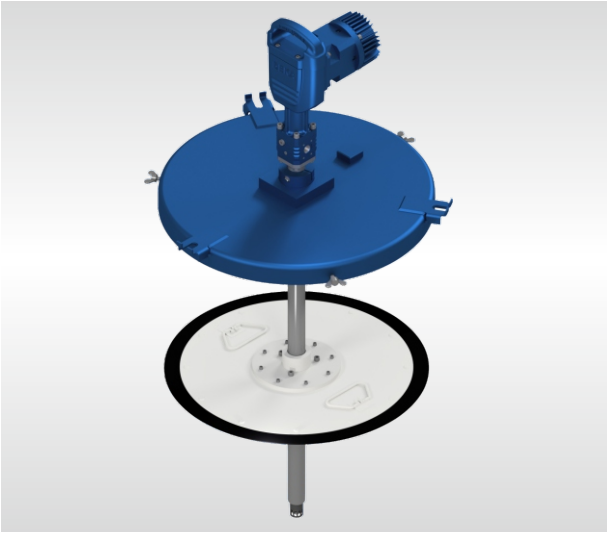
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Technical data (barrel version)

Barrel capacity: 213 l (approx. 400 lbs/ 180 kg)

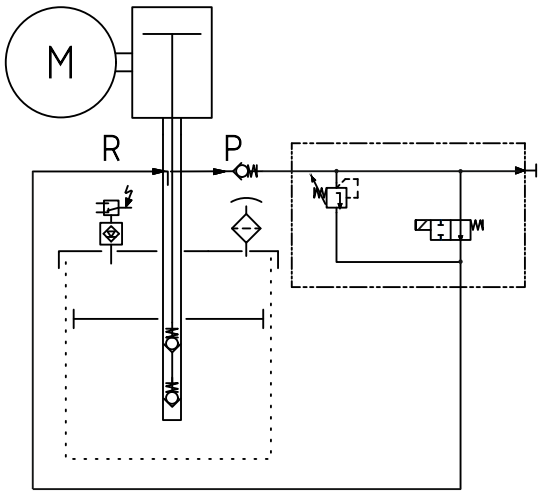
Technical data (container version)

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

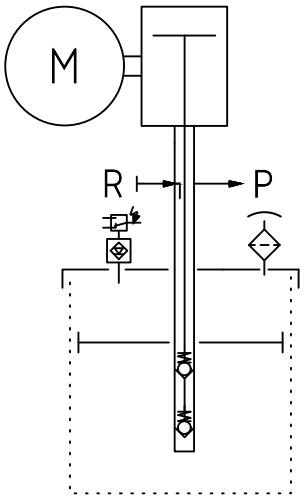




Symbol (single-line version)



Symbol (progressive / dual-line version)



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Dimensional drawing of pump without accessories

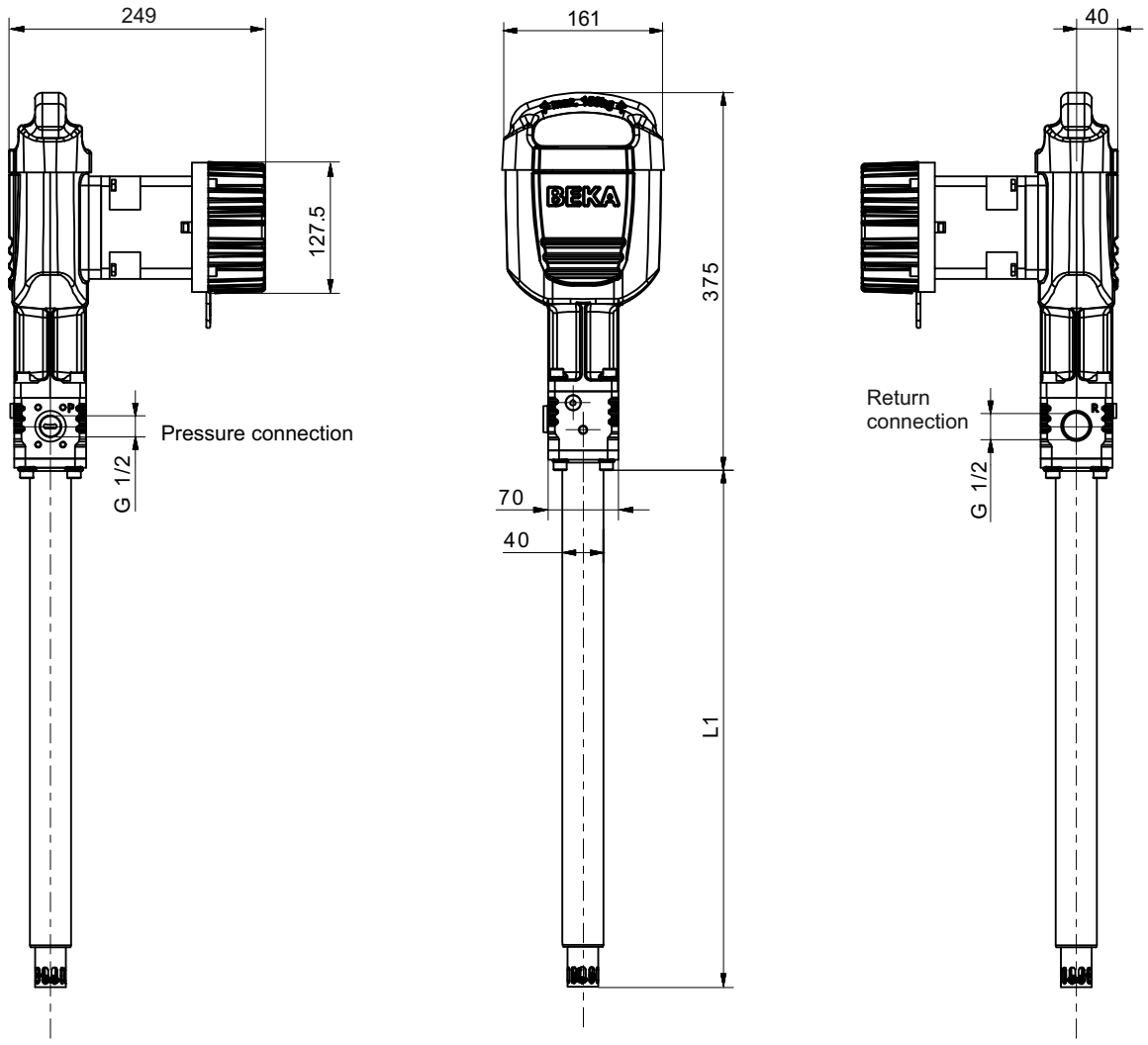


Table of dimension L1

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

Barrel capacity (l / lbs / kg)	L1 (mm)
213 / 400 / 180	975

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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**	400 LBS***		
max. capacity	213l / standard size 180 kg		
Code number	80		
For container size	60 LBS***	90 LBS***	120 LBS***
max. capacity	41l	54l	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

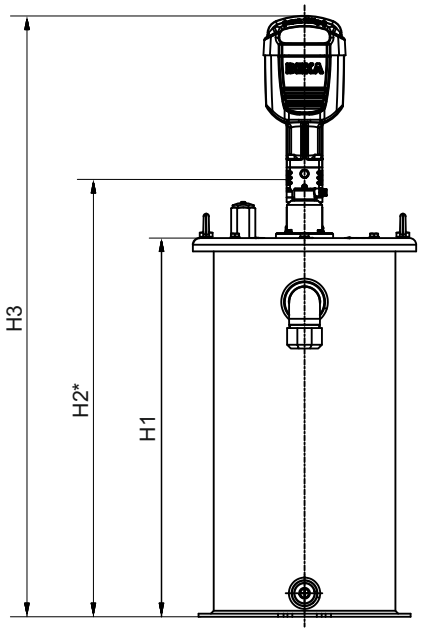
***Indication in pounds (LBS) is to be understood as parameter for barrels and containers

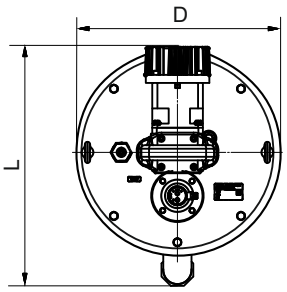
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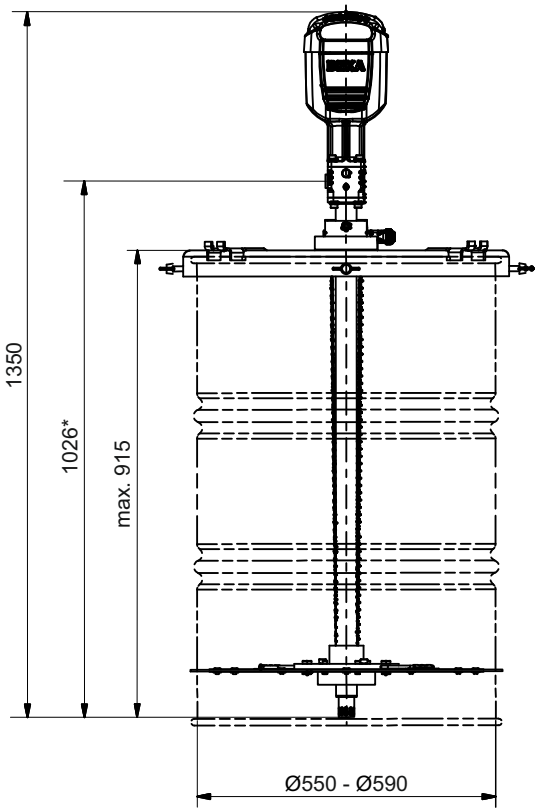
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Dimensional drawing of pump with container



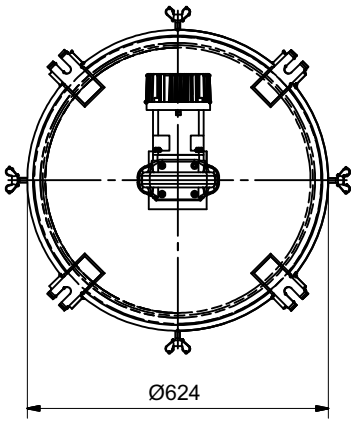


Dimensional drawing of pump with cover and follow-up piston for barrel size: 400 LBS / 213 l / 180 kg



Container capacity (l/lbs)	H1(mm)	H2* (mm)	H3 (mm)	L (mm)	D (mm)
41 / 60	449	560	884	504	Ø437
54 / 90	595	706	1030	504	Ø437
68 / 120	741	852	1176	504	Ø437

* Dimension up to the pressure outlet or return connection



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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

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Technical data

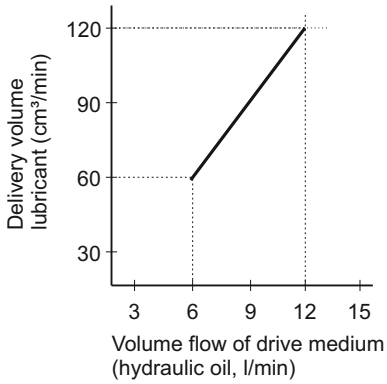
Pump

Delivery volume of lubricant at 20 °C / 68 °F:	max. 120 cm³/min
Operating pressure:	max. 350 bar / 5076 psi
Pressure limiting valve	
Progressive / dual-line system:	see Stream accessories
Single-line system:	set to 240 bar / 3480 psi
Lubricant:	greases up to NLGI cl. 2 without solid contents (other lubricants on request)
Operating temperature:	-30 up to +65 °C -22 up to +149 °F (depending on lubricant)
No. of outlets:	1
Pressure connection (lubricant):	G1/2
Return connection (lubricant, integrated in pump pipe)	G1/2
Drive:	hydraulic

Hydro motor

Drive medium:	hydraulic oil ISO VG 46-100
Hydraulic oil inlet (P):	G3/8
Hydraulic oil outlet (T):	G3/8
Drive pressure (P):	20 - 250 bar / 290 - 3625 psi
Return pressure (T):	max. 3 bar / 43 psi
Volume flow* of the drive medium:	6 - 12** l/min
Weight:	max. 21.3 kg

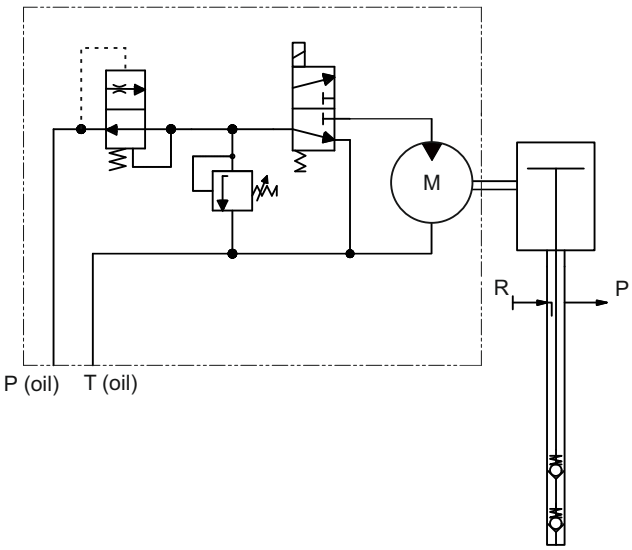
***Delivery volume depending on volume flow :**



**The volume flow of the drive medium is internally limited to max. 12 l/min.



Symbol hydro motor:



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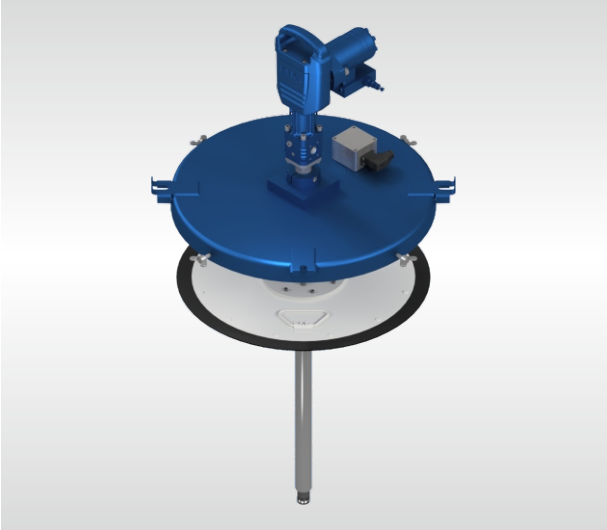
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Technical data (barrel version)

Barrel capacity: 213 l (approx. 400 lbs / 180 kg)



Technical data (container version)

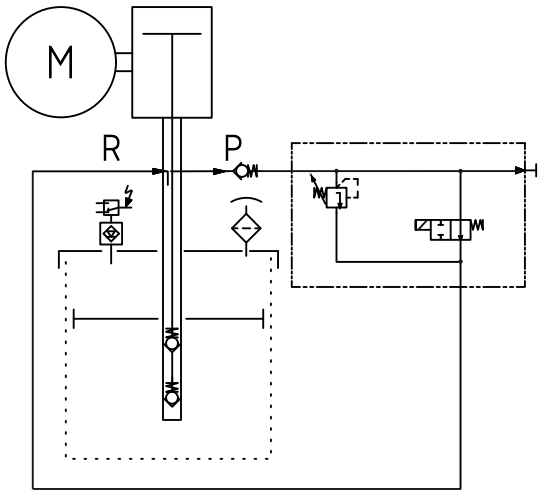
Container capacity: 41 l (60 lbs)
54 l (90 lbs)
68 l (120 lbs)



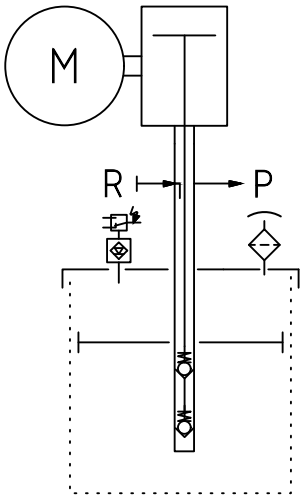
Special features of BEKA Stream H:

- **Modern and reliable supply of lubricant:** Constant delivery rate even at a variable hydraulic power
- **Possibility of returning grease** into the reservoir via double-walled pump pipe (e.g. from relief processes or the pressure limiting valve)
- Return connection can be used as **filling option** via double-walled pump pipe
- No separate return pipe installed, thus **easier barrel change** (barrel version)
- **Robust construction type** ensures **reliable use in mining and outdoor applications**
- **Reliable lubricant supply** even at **extreme ambient temperatures**: -30°C up to 65°C (-22°F up to +149°F)
- Lubricant and drive circuit are **physically separated** (“hydraulically disconnected“) - thus, there is **no risk of mixing the hydraulic oil and the lubricant**

Symbol (single-line version)



Symbol (progressive / dual-line version)



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Dimensional drawing of pump without accessories

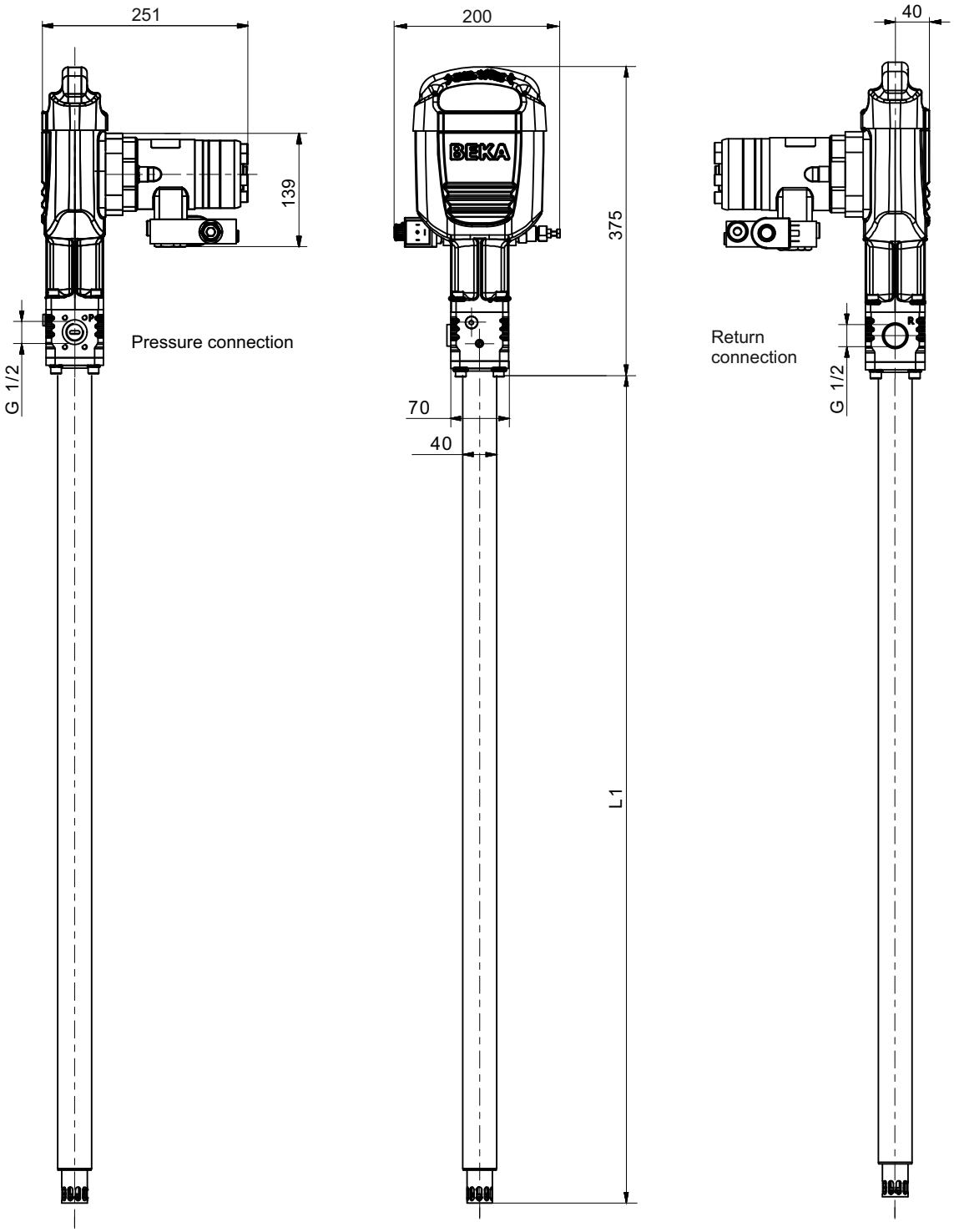


Table of dimension L1

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

Barrel capacity (l / lbs / kg)	L1 (mm)
213 / 400 / 180	975

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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.: 2522 (pump without accessories)

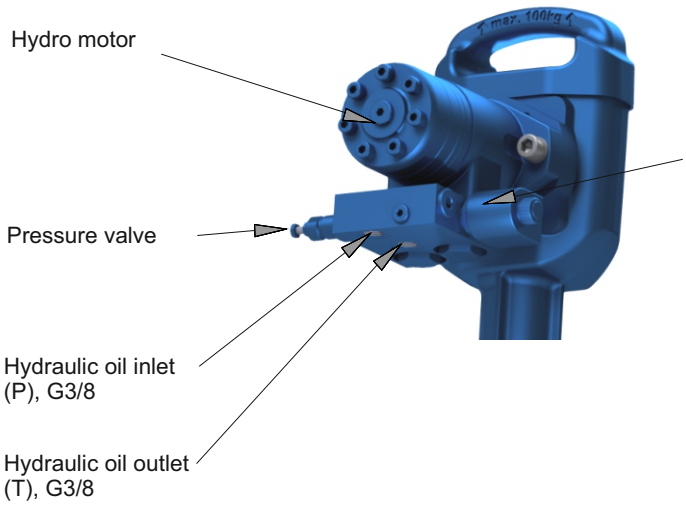
2522 01 1 10 0000

Delivery capacity	max. 120 ccm/min		
Code number	01		
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		

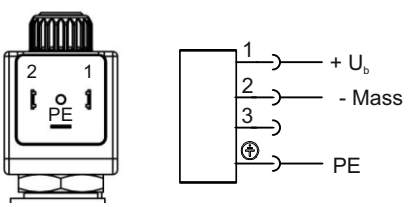
* If the relief valve is required directly at the pump pipe for a single-line pump, select 1.
This is mainly the case when planning a new single-line system.
If the pump is to be integrated into a single-line system that has a separate relief valve, select 0.
This is mainly the case when replacing existing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

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

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



3/2-way change-over valve 24V DC
with cubic plug
(plug DIN EN175301-803 A)
front view with terminal plan:

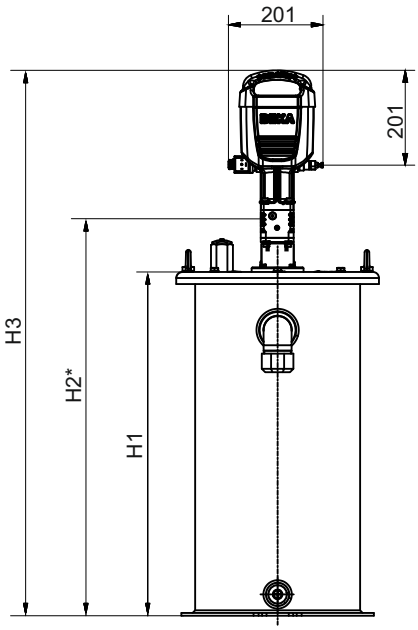


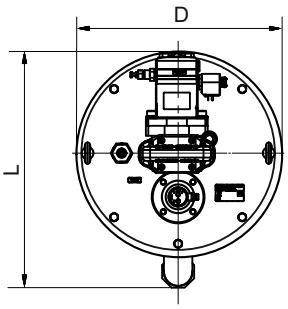
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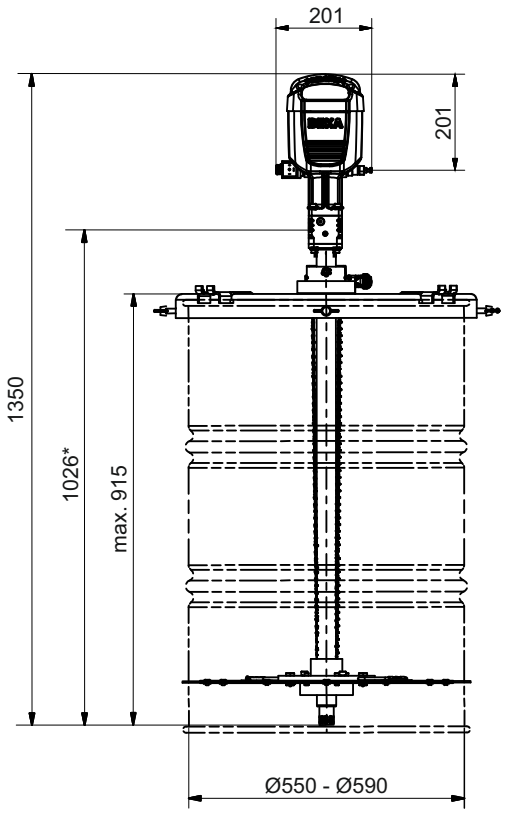
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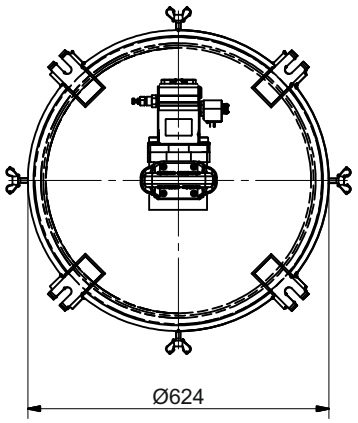
Dimensional drawing of pump with container





Dimensional drawing of pump with cover and follow-up piston for barrel size: 400 LBS / 213 l / 180 kg





Container capacity (l/lbs)	H1(mm)	H2* (mm)	H3 (mm)	L (mm)	D (mm)
41 / 60	449	560	884	504	Ø437
54 / 90	595	706	1030	504	Ø437
68 / 120	741	852	1176	504	Ø437

* Dimension up to the pressure outlet or return connection

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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.: 2523

(pump with accessories)

2523 01 1 10 0 0 00

Delivery capacity	max. 120 ccm/min			
Code number	01			
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	60 LBS***	90 LBS***	120 LBS***	
max. capacity	41l	54l	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

Subject to alterations!

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1090200397

Control of the barrel pump BEKA Stream E and Stream H by the external control unit Tronic-e

It is possible to control the barrel pumps BEKA Stream E and Stream H for progressive or single-line central lubrication systems by the external control unit Tronic-e.

Further information on the external control unit Tronic-e is available in the corresponding description (chapter 9 “Control and monitoring devices”) and operating manual (on request).

For all versions of the BEKA Stream E, two small relays (art. no. 10135721) are necessary for the connection with the control unit Tronic-e. These have to be ordered separately.

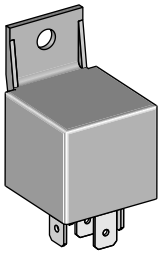


Technical data of the control unit Tronic-e

Supply voltage:	10 up to 60 V DC
Current load max.:	I=6,0 A
Fuse (not included in device):	F 6,3A
	(format 5x20) medium time lag
Temperature range:	-30 °C up to +70 °C
	-22 °F up to +158 °F
Degree of protection:	IP 41
Article number:	modification via code necessary
	see description Tronic-e

Small relay for the connection of BEKA Stream E with the control unit Tronic-e

please order 2

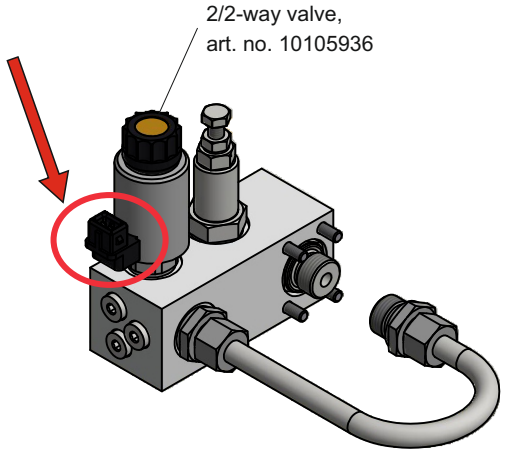


Technical data

Operating voltage:	24V DC
Contact current:	20 A
Article number:	10135721

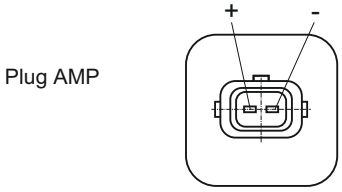
Pressure limiting valve / relief valve for single-line system

Connection cable incl. AMP bushing not included. Please order separately!



Article number: 10120291

Terminal plan 2/2-way valve (only for single-line system)



Technical data 2/2-way valve

Operating voltage:	24V DC
Nominal power:	26 W
Degree of protection:	IP 65
Article number:	10105936

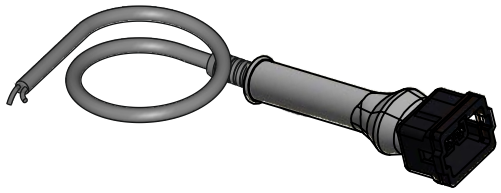
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10 m connection cable incl. 1x AMP bushing

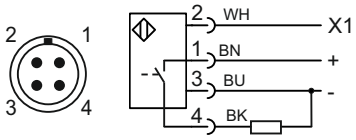
for the 2/2-way valve, open cable end



Article number: 10138802

Terminal plan of level switch

WH white
BN brown
BU blue
BK black



Technical data of level switch

Operating voltage:	10 up to 30V DC
Connection plug:	M12x1, 4-poles
Electrical version:	PNP NO contact
Degree of protection:	IP 67
Functional principle:	ultrasonic
Article number:	10112403

Pressure limiting valve for progressive and dual-line systems*

Opening pressure: 280 bar / 4061 psi
Connection thread: 2x G1/2

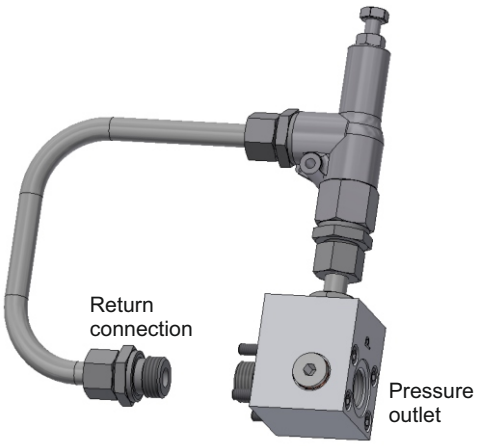


Article number: 10123881

* A pressure limiting valve with an opening pressure of 240 bar / 3480psi is always installed for single-line versions.

Module with pressure limiting valve for progressive systems for direct installation on BEKA Stream E and BEKA Stream H

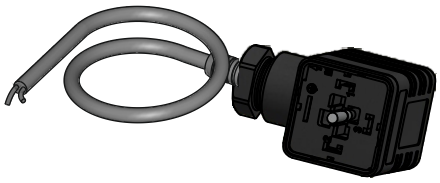
Opening pressure: 280 bar / 4061 psi
Connection thread: G1/2



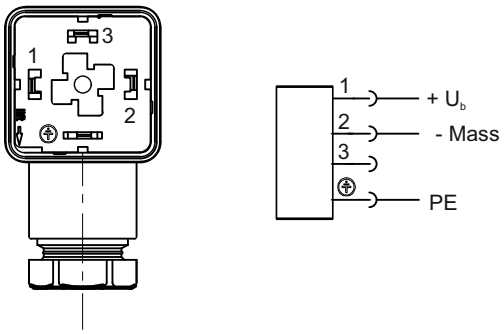
Article number: 10126444

10 m connection cable for BEKA Stream H incl. 1x cubic bushing (socket acc. to DIN EN175301-803 A)

for the 3/2-way change-over valve 24 V DC (standard equipment), open cable end



Terminal plan:



Article number: 10124967

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