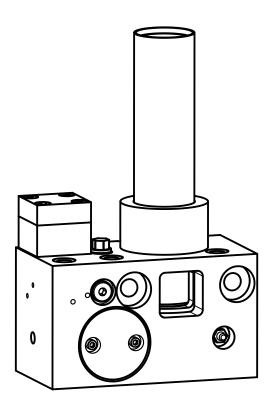


General description

The hydraulically actuated grease pump BEKA HAMAX System 2 is mainly used to lubricate hydraulic hammers or other construction machinery attachments.

Due to its compact design, it can be mounted directly at the attachment.

BEKAHAMAX System 2



For supply, the grease pump is connected with a bypass line to the supply and return lines of the hydraulic system of its carrier. This can be done at choice via the hose lines or via direct flange connection. The connection of the lubrication lines at the pump housing at model connection M14 is possible at four different positions. Regarding the model for connections M16 the pumps must be connected with hoses.

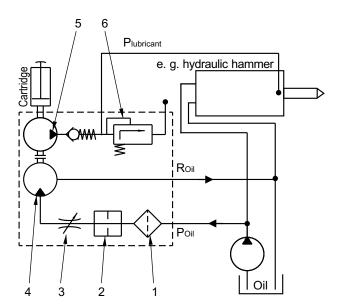
As the drive is effected via a hydraulic motor, continuous supply of lubricant is ensured. The delivery rate can be varied with a throttle.

To protect the lubricant system, the pump comprises a pressure limiting valve which opens as soon as 280 bar have been reached. The outlet opening of the pressure limiting valve is placed opposite of the cartridge holder.

Due to the adapter system different types of transparent plastic cartridges can be used as reservoirs. The grease level is checked optically by the position of the visible follower piston. To be able to check the grease level when the cartridges are almost empty, the pump housing is equipped with an inspection window.

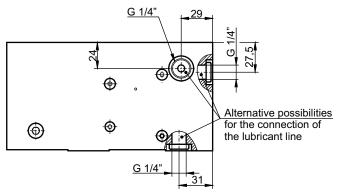
The function is checked with the visible eccentric shaft which rotates during operation.

Hydraulic circuit diagram

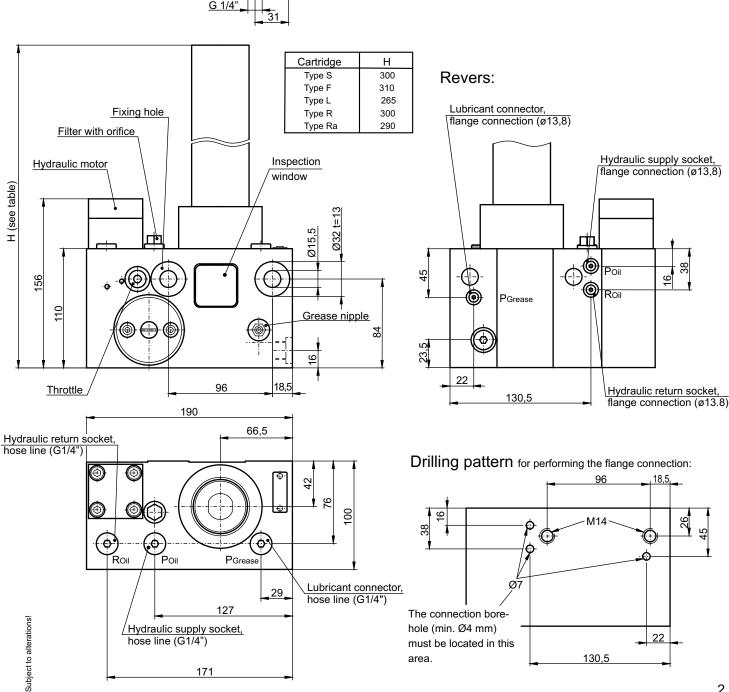


- 1: Filter
- 4: Hydraulic motor
- 2: Orifice
- 5: Pumping element
- 3: Throttle
- 6: Pressure limiting valve

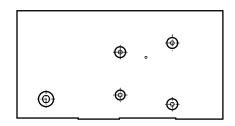
BEKA HAMAX System 2, installation dimensions for model connection M14

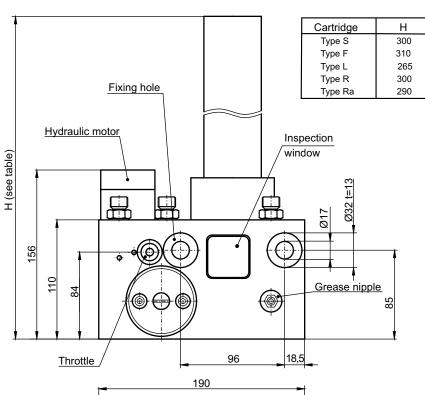


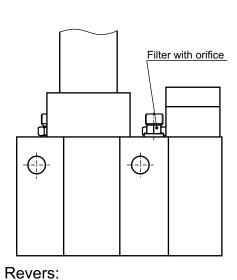
171

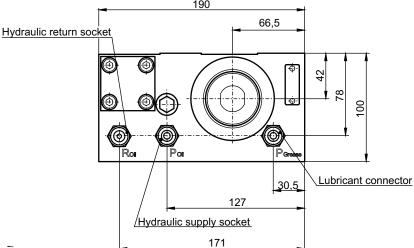


BEKA HAMAX System 2, installation dimensions for model connection M16









Assembly and operation

The pump is fixed to the attachment by means of two securing bolts which are prevented from being loosened by specific lock washers.

Depending on the design, minor assembly works on the pump are required prior to first operation at the model connection M14:

- When performing the hose connection, the enclosed screw couplings must be mounted. To be able to use one of the other outlets, the plug screw with copper sealing ring located on this outlet must be replaced by the inlet screw coupling. Subsequently the grease pump's supply and return lines must be connected to the carrier's hydraulic system with a bypass line. G 1/4" screw couplings are required for the connection of the oil and lubricant lines.
- When performing the flange connection, the G1/4" threads must be closed by the enclosed plug screws and sealing rings. The enclosed o-rings are used to seal the flange connections.

At the model connection M16 the couplings are already mounted at the pump. Only the grease pump's supply and return lines must be connected to the carrier's hydraulic system with a bypass line.

The pump's supply connector comprises a filter and a orifice to limit the supply flow.

The return socket may be subject to a max. back pressure of 20 bar. This value should not be exceeded, as otherwise the pump can't work optimally.

For manual greasing in case of failure of the hydraulic system, a grease nipple has been integrated.

Technical data:

Hydraulic motor:

Hydraulic hammer circuit, 90-250 bar Supply: Difference pressure in operation: min. 70 bar max. 20 bar Admissible return pressure: Displacement: max. 2 l/min

Default speed

of the eccentric 14 rpm with oil ISO VG 46 at 20° C at 1,8 l/min. Hydraulic oil: ISO VG 46-100 Temperature range: 0°C up to +70°C

Speed can be adjusted with throttle

Pumping element:

280 bar Pressure limiting valve: Delivery rate/ stroke PE120FH 0.12 cm³ Default stroke number: 14 strokes/min.

Stroke number can be adjusted with throttle

General:

Weight: approx. 6,7 kg Grease supply: cartridge Type of cartridge: suitable to cartridge adapter Lubricant: EP-grease without solid contents

or chisel pastes

up to NLGI class 2

The following chisel pastes are permitted for the use with this grease pump. Additionally please also observe the regulations of the machine manufacturer.

EUROL chisel paste -

EUROL Mineralöl Handelsges. m. b. H.

NILS chisel paste

Nils Italia S. r. L.

Fuchs Lubritech chisel paste

Fuchs Lubritech GmbH

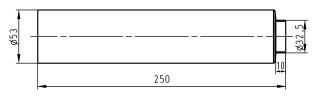
BERULUB HTM paste

Carl Bechem GmbH

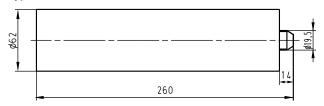
Cartridge system

The grease pump BEKA HAMAX System 2 features an adapter system which enables the use of different cartridge types.

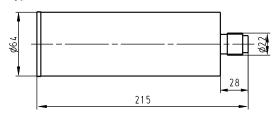
Type S - BEKA standard:



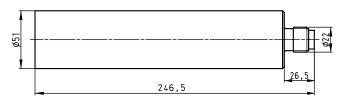
Type F:



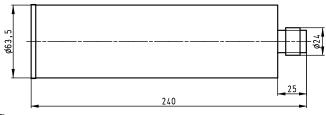
Type L:



Type R:

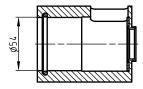


Type Ra:

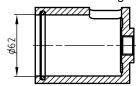


Cartridge adapter

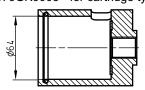
Adapter 2576GK0001 - for cartridge type S:



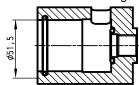
Adapter 2576GK0002 - for cartridge type F:



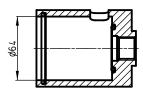
Adapter 2576GK0003 - for cartridge type L:



Adapter 2576GK0004 - for cartridge type R:



Adapter 2576GK0008 - for cartridge type Ra::



Adapter and cartridge ref-No.:

Type	Grease qty.	Fluid	Cartridge	Adapter
s	400~	EP2 - Gr.	0320092	2576GK0001
٥	400g	Cu-Paste	0320091	25/6GK0001
	F00-	EP2 - Gr.	0320089	057001/0000
F	500g	Cu-Paste	0320090	2576GK0002
L			-	2576GK0003
R				2576GK0004
Ra				2576GK0008

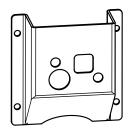
Accessories

To protect the pump, you can order different protective housings. The pump can still be filled via the integrated boreholes, and the level can be checked via inspection windows. Moreover, the throttle valve regulating the delivery flow is still accessible.

Protection housing for pumps connection M14

Version 1 -

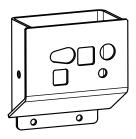
4 additional drillings (M14) are necessary



order no.

Pump cover incl. fasteners: Pump cover without fasteners: 25760002 0800801461

Version 2 -2 additional drillings (M12) are necessary

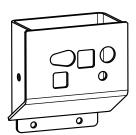


Pump cover without fasteners:

0800801654

Protection housing for pumps connection M16

2 additional drillings (M12) are necessary



Pump cover without fasteners:

0800802261



Construction type:	
Pumping element	Code
PE 120 FH	0
Cartrigde	Code
without cartridge adapter	00
Type S-Cu Paste	01
Type S-EP2 Grease	11
Type F-Cu Paste	02
Type F-EP2 Grease	12
Type L 1)	03
Type R 1)	04
Type Ra 1)	05

Hydraulic connection / Lubricant connection	Code
Internal thread G1/4", pipe connection ø8 or flange connection - fastening M14	0202
Pipe connection ø8 - fastening M16	0303

Version	Code
_	
Standard	00

1) Delivery without cartridge!