



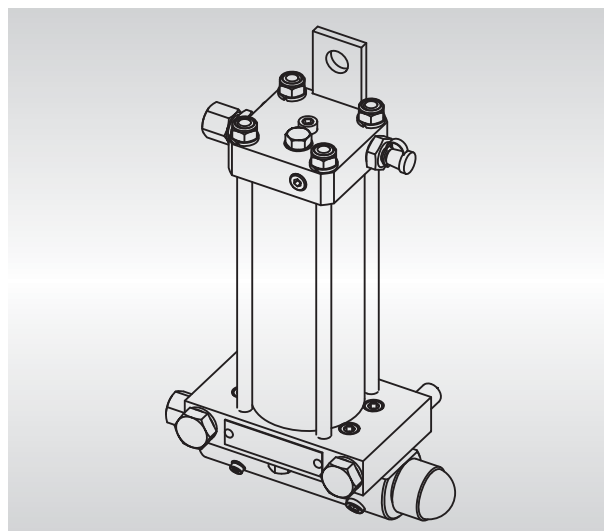
### Description

The hydraulically driven grease pump BEKA HAMAX 11 is mainly used for the lubrication of hydraulic hammers or other attachments at construction machines.

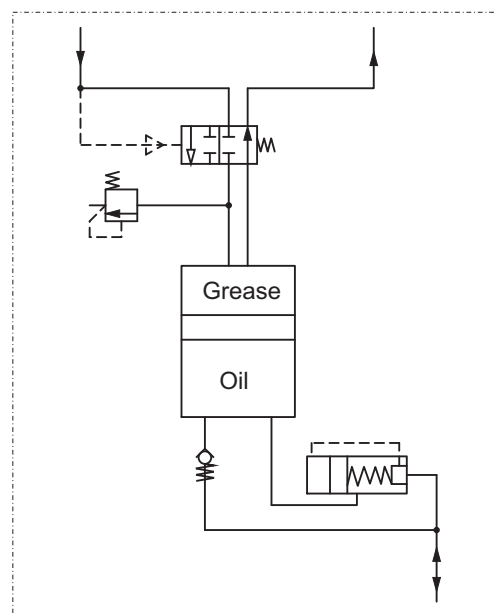
The compact construction makes an assembly at the attachment possible.

### Technical data

Drive:	hydraulic
No. of strokes:	1 stroke per pulse at hydraulic connection
Operating pressure:	min. 120 bar max. 300 bar
Counter press. of lube point:	max. 75 bar
Relief pressure:	max. 25 bar
Reservoir capacity:	100, 200 or 400 cm <sup>3</sup>
Lubricant:	greases up to NLGI-cl. 2
Output rate:	0 or 0,25 to 1 cm <sup>3</sup> /stroke
Output rate regulation:	continuously (regulation distance 6 mm)
Operating temperature:	-25 °C to +75 °C (with suitable grease)
Weight (without lubricant storage):	
at reservoir capacity 100 cm <sup>3</sup> :	4,5 kg
at reservoir capacity 200 cm <sup>3</sup> :	4,9 kg
at reservoir capacity 400 cm <sup>3</sup> :	5,7 kg
Filling with grease:	Connection to the hydraulic system necessary



### Diagram



## Hammer lubrication pump HAMAX 11

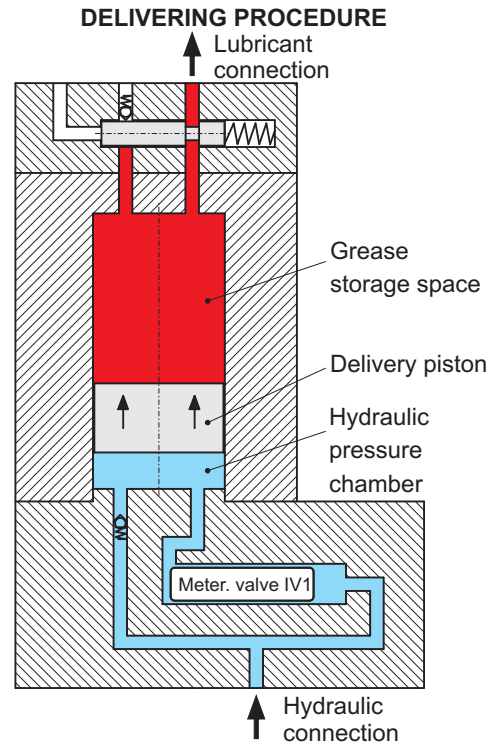
### Functional description

The hydraulic pump HAMAX system 11 is designed in a way that a lubrication process is made with each hydraulic pulse, e.g. actuation of the hydraulic hammer.

When the hydraulic connection (fig. 1) is pressurized, the hydraulic oil is metered in the adjusted quantity and passed on into the hydraulic pressure space.

The metered oil amount now shifts the delivery piston in the direction of the grease reservoir in the relation 1:1. The displaced grease amount is pressed out of the grease connection.

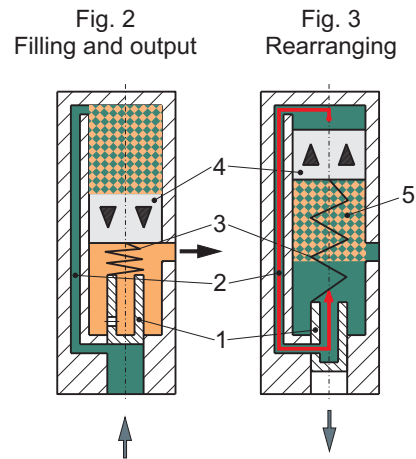
Fig. 1:



### Function of metering valve IV 1

The regulation piston (fig. 2; pos. 1) is pushed upwards against the pressure of the return spring (fig. 2; pos. 3) by the hydraulic pressure, and opens the pressure line (fig. 2; pos. 2). The connected hydraulic pressure shifts the metering piston (fig. 2; pos. 4) downwards and displaces the hydraulic oil in the metering space (fig. 2; pos. 5).

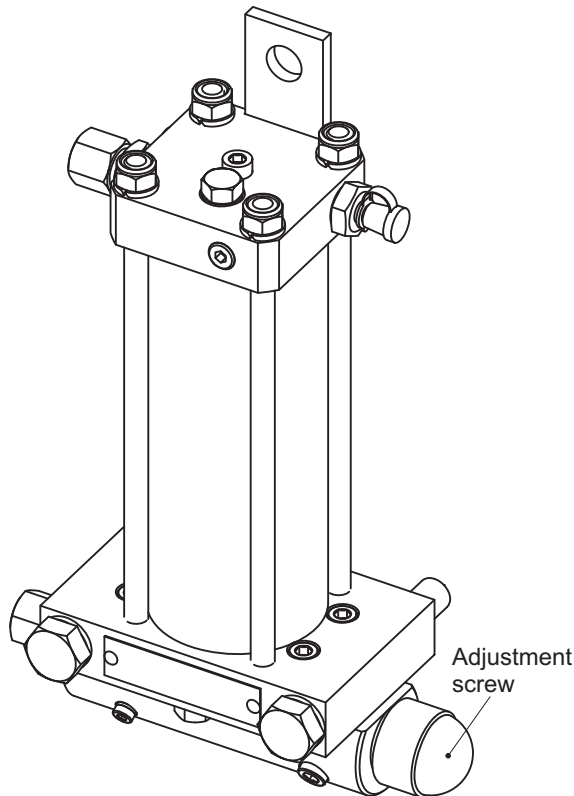
When the hydraulic line is relieved, the return spring (fig. 3; pos. 3) pushes the regulation piston (fig. 3; pos. 1) back into its original position and opens the pressure line (fig. 3; pos. 2). With the pressure relief the metering piston (fig. 3; pos. 4) now can be pushed upwards by the return spring (fig. 3; pos. 3). The replaced hydraulic oil fills the metering space (fig. 3; pos.5) again through the opened pressure line (fig. 3; pos. 2).



## Adjusting the output rate

The pump originally is adjusted to max. output rate. The output rate is continuously adjustable from 0,25 cm<sup>3</sup> up to 1 cm<sup>3</sup> at the adjustment screw (fig. 4).

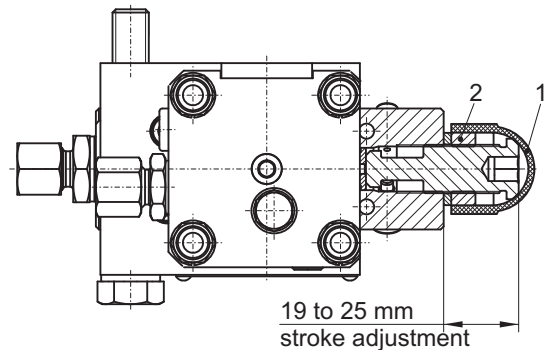
Fig. 4:



Remove the protection cap (fig.6; pos. 1) and loosen the lock nut (fig. 6; pos. 2) for adjusting the delivery rate.

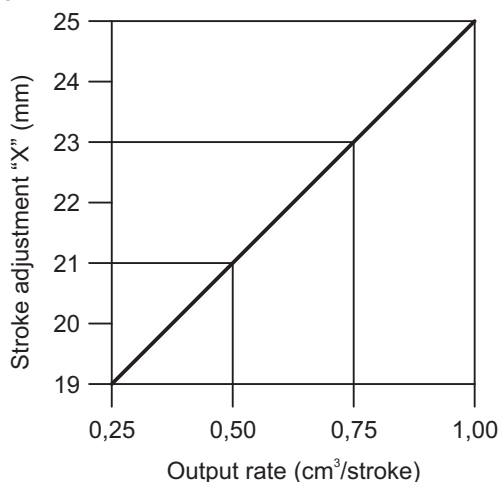
Now you can adjust the desired output rate according to the diagram (fig. 5).

When the output rate is adjusted, you have to secure the set screw with the lock nut (fig. 6; pos. 2) again. After that, fix the protection cap (fig. 6; pos. 1) again.



The total setting range is 6 mm. This corresponds to approx. 0,125 cm<sup>3</sup> per 1 mm setting range or per rotation of the set screw (see fig 5/6).

Fig. 5:

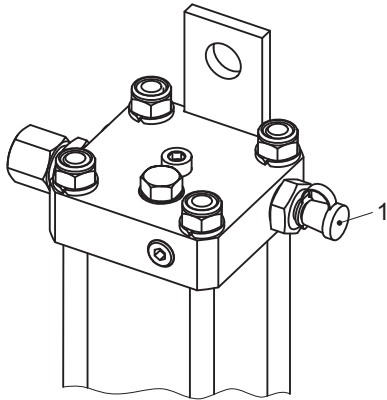


## Hammer lubrication pump HAMAX 11

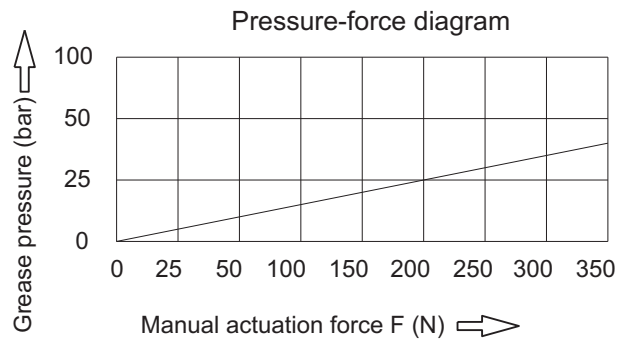
### Filling of the pump

The pump is filled via the filling nipple (fig. 7, pos. 1) by means of a hand lever grease press (fig. 8).

Fig. 7:



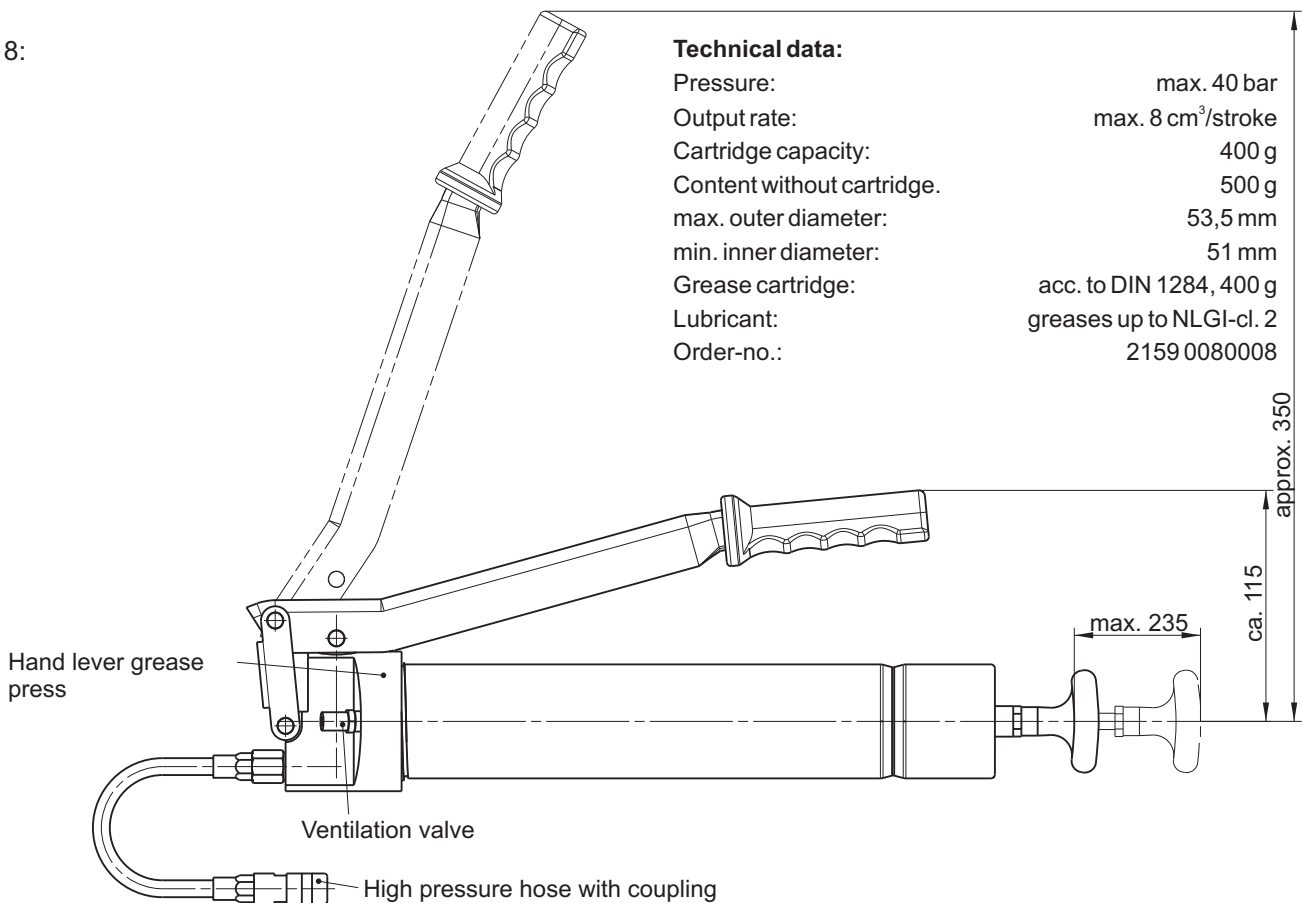
### Hand lever grease press



We developed a hand lever grease press with a higher delivery capacity for this purpose.

With this hand lever grease press the pump can be filled with the same effort but only 1/4 of the pressure strokes of a normal grease press.

Fig. 8:



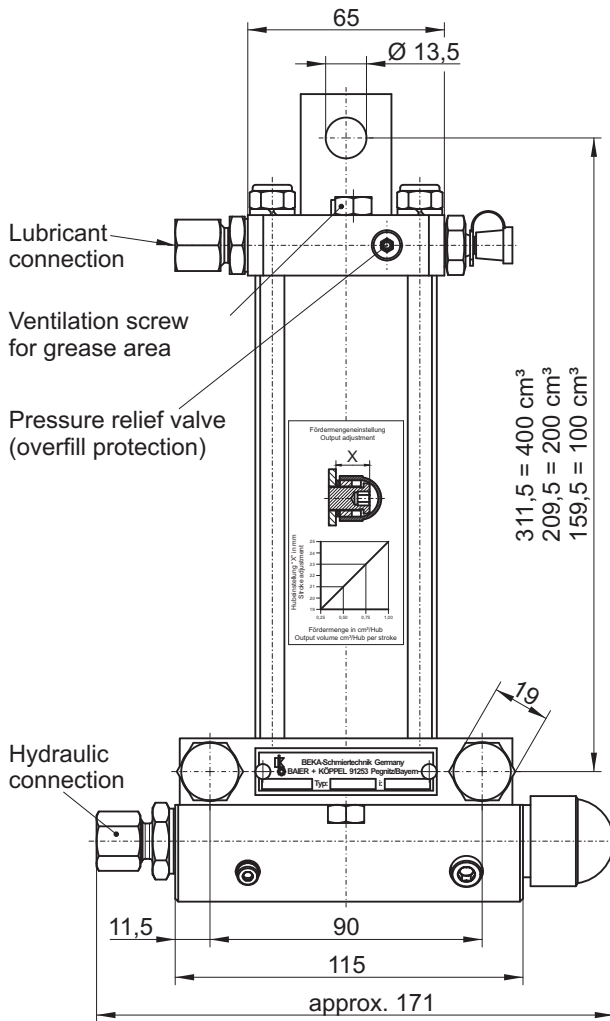
#### Technical data:

Pressure:	max. 40 bar
Output rate:	max. 8 cm <sup>3</sup> /stroke
Cartridge capacity:	400 g
Content without cartridge:	500 g
max. outer diameter:	53,5 mm
min. inner diameter:	51 mm
Grease cartridge:	acc. to DIN 1284, 400 g
Lubricant:	greases up to NLGI-cl. 2
Order-no.:	2159 0080008

### Installation

The pump is fixed at the attachment with two fastening screws at the additional device (fig. 9). Special lock washers prevent them from loosening.

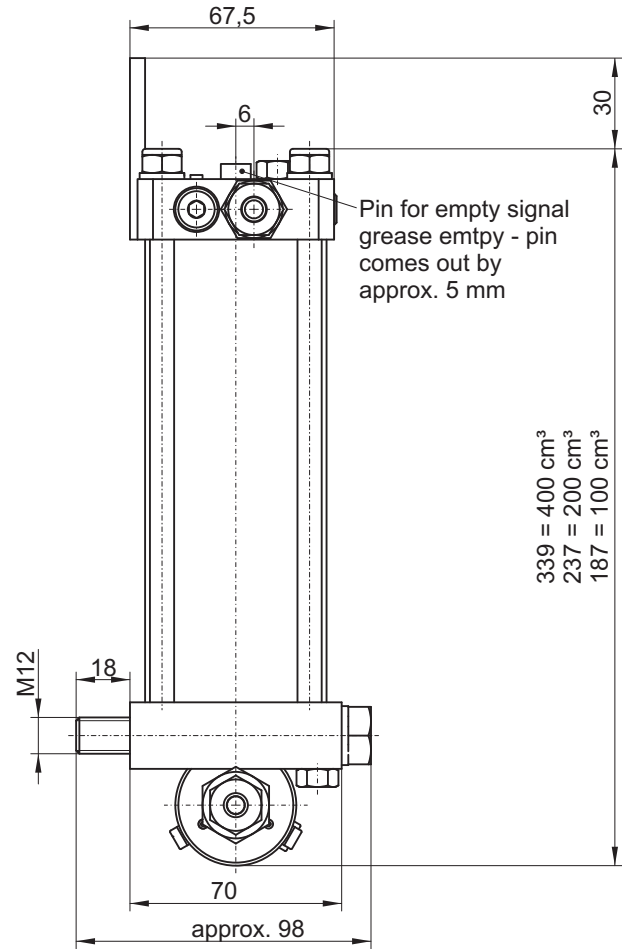
Fig. 9:



### Connection

The hydraulic connection of the pump (fig. 9) can be connected via a bypass line to the hydraulic system of the supporting device.

The lubrication point has to be connected with the pump's lubrication connection (fig. 9) via a pressure line.



### Order key for series 2592

2592 20 01 01 1 000

<b>Type-no.</b>	2592			
Code-no.	2592			
<b>Reservoir capacity (cm<sup>3</sup>)</b>	100	200	400	
Code-no.	10	20	40	
<b>Hydraulic connection</b>	G 3/8, Ø 8			
Code-no.	01			
<b>Lubrication connection</b>	G 1/4, Ø 8			
Code-no.	01			
<b>Additional retaining plate</b>	without	with		
Code-no.	0	1		
<b>Special version</b>	standard			
Code-no.	000			

