

Applications

These pumps are designed to work with grease and oil, whatever environment. The main application of the 5: 1 pump is as an oil transfer pump and the 50: 1 model as lubrication in pneumatic installations.

Features

- ▶ Air inlet filtered
- ▶ Low air consumption
- ▶ For grease and oil (see ranges)
- ▶ Available with standard drum rods 60 Kg and 200 Kg
- ▶ Modular air valve

Description

Two models of high pressure pumps, one for a medium flow of oil with a ratio of 5: 1 and the other for grease with a ratio of 50: 1, both complement each other perfectly for a wide range of lubrication.

Each model has its configuration for 60 and 200 kg tanks.

Design and operating principle

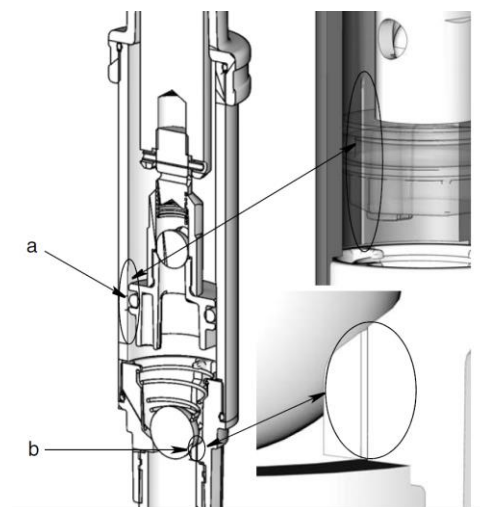
Operation is similar to most of the double action piston pumps. The pump only comes to a complete stop on the up stroke. The pump will stroke through on the down stroke due to the inlet check relief passage.

Excess pressure due to downstream thermal expansion causes the air motor/pump to run backwards (downward). Fluid pressure is relieved through the inlet check relief passage (b) as the pump piston moves downward. Air pressure is simultaneously relieved through the air inlet passage. The pump piston moves downward exposing the pump cylinder relief passage (a) at the bottom of the stroke. Additional excess pressure is then relieved through both the inlet check relief passage (b) and the pump cylinder relief passage (a).

The pump will not change over on the bottom of the stroke as a result of relieving excess pressure due to the positioning of the pump cylinder groove with respect to the air motor pilot valve.

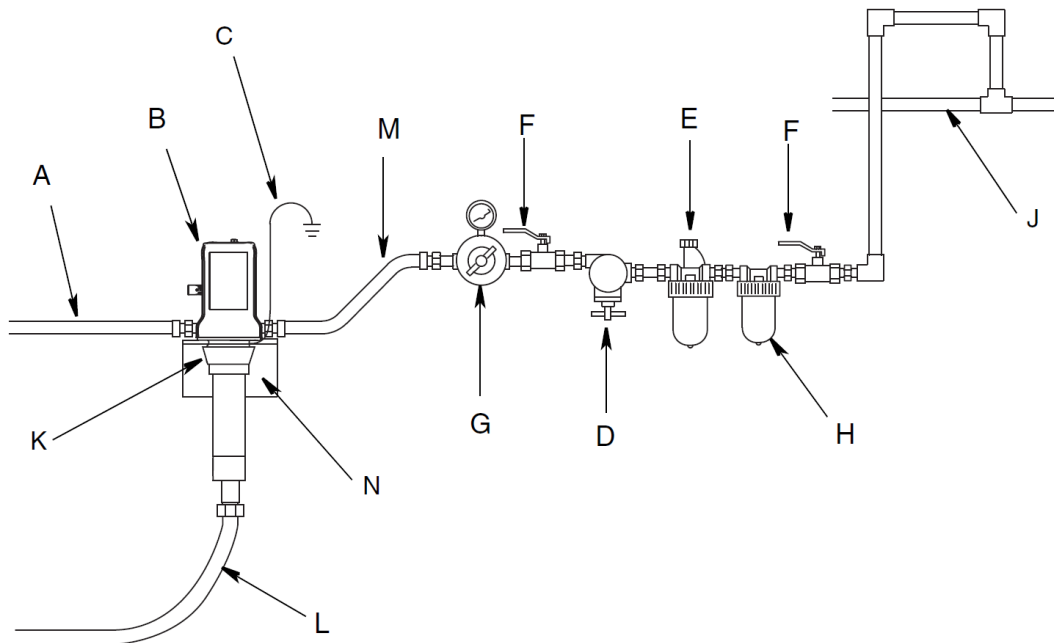


Illustration of operating principle



Installation

The typical installation shown, is only an installation guide. It is not an actual system design.



Key

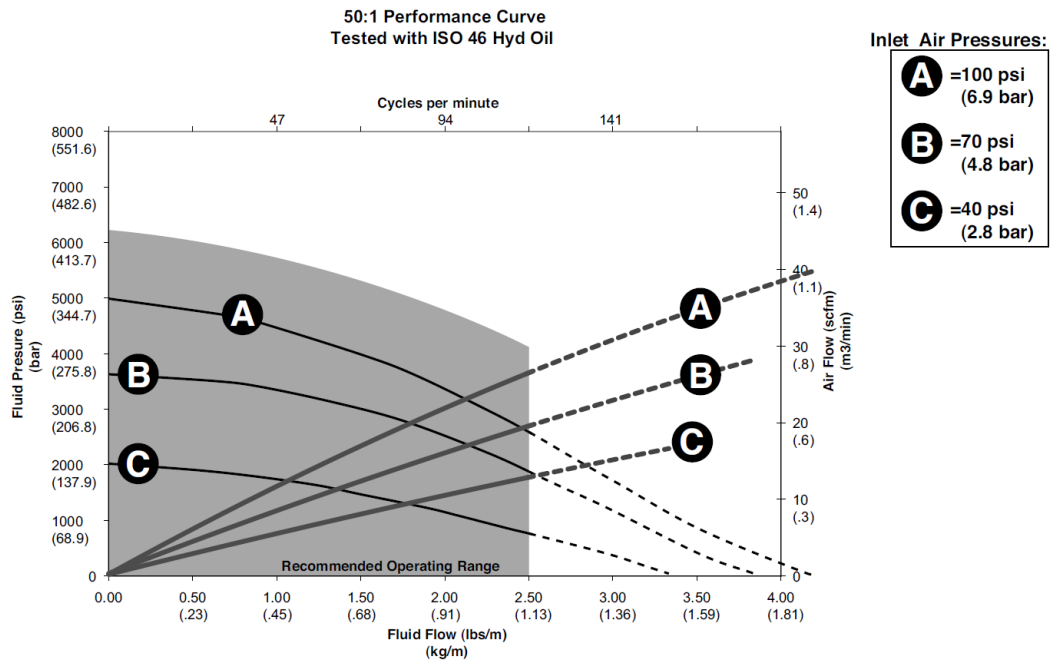
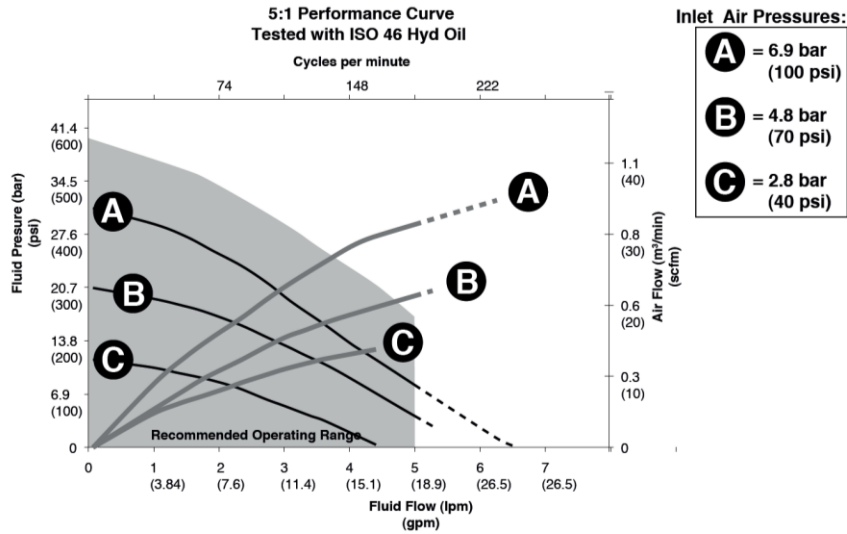
- A - Fluid outlet line (flexible connection required)
- B - Pump
- C - Ground wire
- D - Pump runaway valve
- E - Air lubricator
- F - Bleed-type master air valve (required)
- G - Air regulator (self-relieving regulator required)
- H - Air filter
- J - Main air line
- K - Bung adapter
- L - Fluid inlet line (flexible connection required)
- M - Air inlet line (flexible connection required)

In case of mounting on a drum, it is possible to install a return rod on the pump (Ref. 1038524.000) through which all the excess grease from the installation can be returned.

To reduce the risk of static sparking, ground the pump and all other components used or located in the dispensing area.

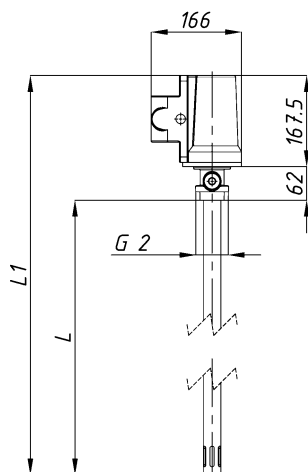
Specifications

	Oil	Grease
Ratio	5 : 1	50 : 1
Maximum working pressure	51,7 bar	517 bar
Recommended air pressure	< 8,6 bar	< 8,6 bar
Recommended maximum speed	180 cycles/minute	120 cycles/minute
Air inlet	G 1/4	G 1/4
Grease outlet	G 1/2	G 1/4
Flow	25 L/min	1,87 kg/min
Approximate weight	3,5 kg.	5,1 kg.

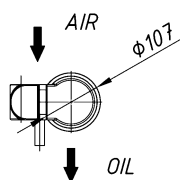


Dimensional drawing

Dimensions in mm



Reference	L (mm)	L1 (mm)
1038520.000	715	945
1038521.000	915	1145
1038522.000	915	1145
1038523.000	715	945



Ordering information

ADD CODE DEPENDING ON ASSEMBLY

	BN50-	X	XXX	X	X	X	(-XX)
Lubricant							
Oil (Pump ratio 5:1)		A					
Grease (Pump ratio 50:1)		G					
Drum							
Drum 60 litres			060				
Drum 200 litres			200				
Return rod							
Without return rod				N			
With return rod				C			
Drum cover							
Without drum cover					N	N	
With drum cover					T		
Minimum level indicator							
Without minimum level indicator							N
With minimum level indicator							I
Special code							
For non-standard elements							(-XX)