

# Pneumatic pump mounted on drum BN50

103852X Series

Centralized greasing systems » Pumps for centralized greasing » Pneumatic pumps



## 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.

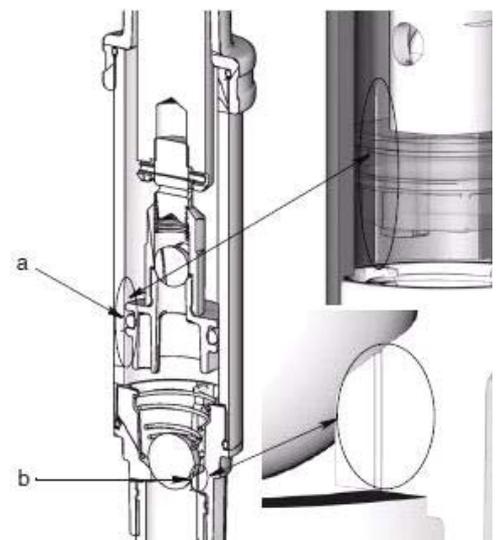
## Design and operating principle

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.

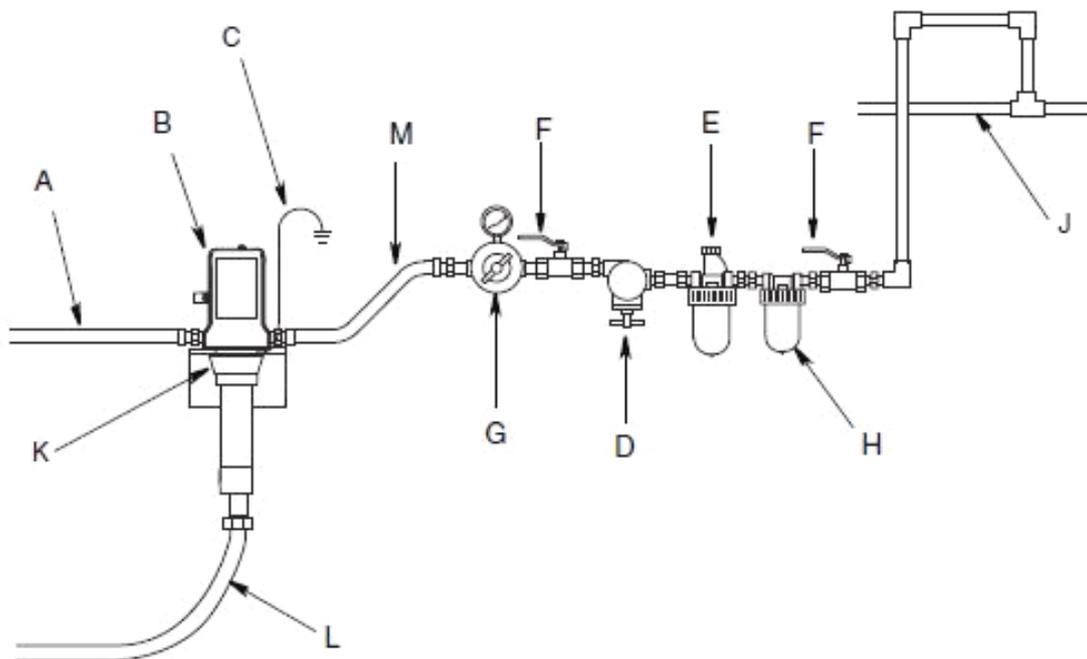


Illustration of operating principle



## Installation

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



### Key

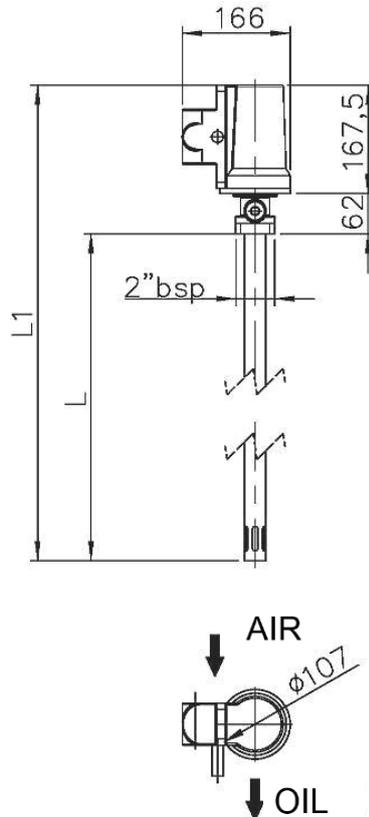
- A - Fluid outlet line (flexible connection required)
- B - Pump
- C - Ground wire
- D - Pump runaway valve
- E - Air lubricator
- F - Bleed-type master air valve (required)
- G - Air regulator (self-relieving regulator required)
- H - Air filter
- J - Main air line
- K - Bung adapter
- L - Fluid inlet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

## Dimensional drawing

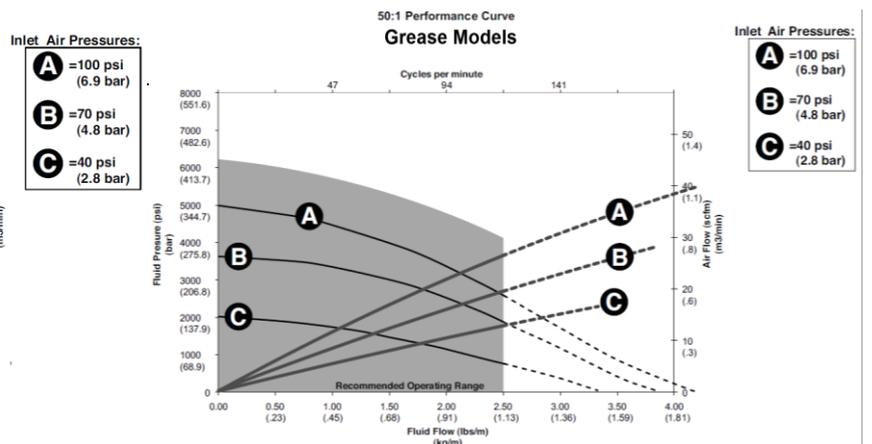
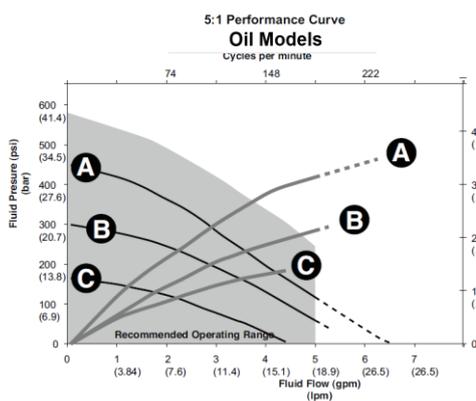
Dimensions in mm



	L	L1
1038520/23	715	945
1038521/22	915	1145

## Specifications

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/per minute	120 cycles/per minute
Air inlet	1/4" bsp	1/4" bsp
Grease outlet	1/2" bsp	1/4" bsp
Flow	25 lpm	1,87 kilos/per minute
Approximate weight	3,5 kg.	5,1 kg



## Ordering information

---

Specifications	Reference
Ratio pump 50:1 for drum 60 litres	1038520
Ratio pump 50:1 for drum 200 litres	1038521
Ratio pump 5:1 for drum 60 litres	1038523
Ratio pump 5:1 for drum 200 litres	1038522

## Accessories

---

Specifications	Reference
Return rod	1038524
Drum cover 200 litres	1038525

Apart from the loose pump, there is a pneumatic grease lubrication pack consisting of a 50: 1 pump with an air group and an inverter on a drum cover ref. 1038508X (See data sheet)