

## PMV Double acting differential piston pumps for pumping lubricants



The unique modular design and high performance make this pump series one of the most economical pumps for lubricants.



- **Fully pneumatically controlled**  
Based on the proven, industry standard, PowerMaster technology
- **Reduced number of moving parts**  
Assurance for a reliable operation and long life span of the pump
- **Modular pump design**  
Makes service a synch
- **Choice of 3" or 4 1/4" airmotor and a ratio of 3:1 to 50:1**  
Covers a wide range of applications – whether for metering, pumping, lubricating, filling or transferring.

# PMV – for pumping lubricants such as oil, fluid grease and lubricant greases – either mineral oil based or for synthetic based lubricants

Sub-assemblies enable a quick exchange of important components without completely disassembling the pump. As a result, downtime during maintenance tasks is drastically reduced and kept to an absolute minimum.

The air valve assembly, which controls the pump, can even be exchanged with ease while the pump remains in the drum.



## Specifications:

### All Models:

Stroke: 3.25" (82.5 mm)  
Air Supply: Min. 2.7 bar –  
Max. 10.3 bar

### 3" Models

Ratio: 50:1  
Max. Pressure: 517 bar  
Output: 12.8 cm<sup>3</sup> per Double Stroke  
Max. 2750 cm<sup>3</sup>/min

Ratio: 5:1  
Max. Pressure: 50 bar  
Output: 110 cm<sup>3</sup> per Double Stroke  
Max. 26.5 l/min

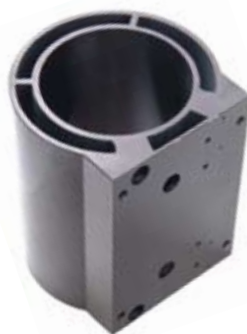
### 4 ¼" Models

Ratio: 50:1  
Max. Pressure: 517 bar  
Output: 24.1 cm<sup>3</sup> per Double Stroke  
Max. 3600 cm<sup>3</sup>/min

Ratio: 6:1  
Max. Pressure: 62 bar  
Output: 195 cm<sup>3</sup> per Double Stroke  
Max. 26.5 l/min

Ratio: 10:1  
Max. Pressure: 103 bar  
Output: 118 cm<sup>3</sup> per Double Stroke  
Max. 18.4 l/min

The one-piece air cylinder is made from aircraft aluminum. This design reduces the risk of leakage.



The piston design is simple as no mechanical elements are required to operate and control it.



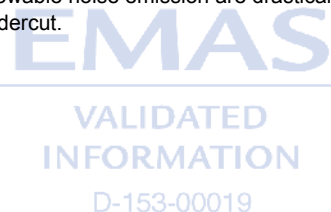
The very low amount of mechanically moving components ensures a long life of the PMV pumps.

## Validated Environmental Information

The PMV is a fully pneumatic pump with few moving parts. The fewer the number of moving parts, the less wear and repair. As a result the PMV has a long service life.

The simple design of the air logic enables the pump to be operated without the normal air oiler that is required for other pneumatic pumps. This saves lubricant and eliminates any exhaust air pollution.

In comparison to other models, the PMV noise emission is extremely low. The legal requirements pertaining to the maximum allowable noise emission are drastically undercut.



Lincoln Environmental Statement under  
[www.lincolnindustrial.de/Company/Environment](http://www.lincolnindustrial.de/Company/Environment)

Model	Medium	Ratio	Airmotor	Pump Tube
350035	Grease	50:1	3"	480 mm
350120				695 mm
350400				860 mm
450120			4 ¼"	695 mm
450400	860 mm			
305000	Oil	5:1	3"	Stub Pump
406000		6:1		
410000		10:1	4 ¼"	

Models are available with different pump tube lengths for various size drums. The pump tubes are either ball & check for fluid to semi-fluid mediums or with a shovel foot design with plunger and bushing style which provides a mechanically assisted pressure for the pumping of high-viscous mediums.

Ask us about suitable all the accessories for the PMV pumps. We will also gladly offer individually specified and pre-assembled pump systems to meet your requirements!