

# PMV Pump Family

## Designed for Exceptional Performance, Long Service Life, Low Maintenance Cost

Lincoln's new PMV family of grease and oil pumps represents 100 years of high-quality engineering, technology and manufacturing. The unique, modular design of these pumps includes precision-machined parts made with durable materials which allows for a longer pump life. Based on Lincoln's proven PowerMaster III air logic pump technology, PMV is a simple design with few moving parts. This translates to exceptional performance, long service life and low maintenance cost.

### PMV Features and Benefits

#### Air Valve Assembly

- Proven design based on the PowerMaster III air logic pump technology
  - More than 25 years of precision pump engineering ensures dependable, quiet performance
- Modular, fastened by four bolts
  - Quick and easy to maintain throughout the service life of the pump
- Precision machined and made from aircraft aluminum
  - Precise, durable and less susceptible to temperature than plastic spools
- Runs without external lubrication
  - Reduces cost of ownership
- No springs, rods, levers or slides
  - Fewer parts to wear out, increasing durability, decreasing repair cost
- Designed to work in a contaminated air supply

#### Air Cylinder

- One-piece cylinder casting contains all ports and passages
  - Simplifies repairs
- One-piece piston
  - No connection to any rods, spools, springs or poppets reduces premature mechanical failures, simplifies repairs
- One O-ring on the piston
  - Reduces leak paths, improves durability

#### Pump Tube

- One-piece, machined gland nut
  - Easy to maintain over the life of the pump
- Divorced pump tube and air motor seal
  - Air motor seal is a separate O-ring which reduces the chance of contamination in the motor

#### Pump Seals

- Made from durable polyurethane
  - Compatible with a wide range of natural and synthetic lubricants

#### Pump Rod

- Hard-chrome plated
  - Allows for superior sealing which extends the life of the rod

#### Outlet Check

- For oil pump models
- Protects pump from system back pressure

