GRI PUMPS
A GORMAN-RUPP COMPANY
PRESENTS



Piston Diaphragm Pumps

Product Overview

Piston diaphragm pumps are positive displacement pumps designed to economically transfer small volumes of fluid at low discharge pressures. The lightweight, compact pumps are self-priming, corrosion resistant and can handle viscous fluids. These features make the pumps ideal for high volume copy machines, scientific and laboratory instruments and other chemical dispensing applications.

Operation:

Standard models are constructed with 12 or 24 volt DC solenoids. A switch is required to supply pulsed voltage to the pump. The energized solenoid pulls the piston and diaphragm up, drawing fluid into the pump. A spring forces the piston back to its original position when the solenoid is de-energized, forcing fluid out of the pump, and the cycle is repeated. Valves are utilized to prevent back-flow into the pump and to maintain prime.

Specifications:

Flow Rate: Range to 250 microliters per stroke
Max Discharge Pressure: Range to 2.6 psi (6')
Self-Priming: To 3 feet
Max Fluid Viscosity: To 300 centistokes
Max Fluid Temperature: To 200°F (93°C)
Typical Duty Cycle: 1 cycle/second (1⁄2 sec. on - 1⁄2 sec. off).
Metering Accuracy: ±2% stroke-to-stroke (for a stationary setup)
I.D. Tubing Size: 3⁄16"
Approximate Weight: .265 lb.

Note: Positive suction head above 6" requires tight valves; consult factory for availability.

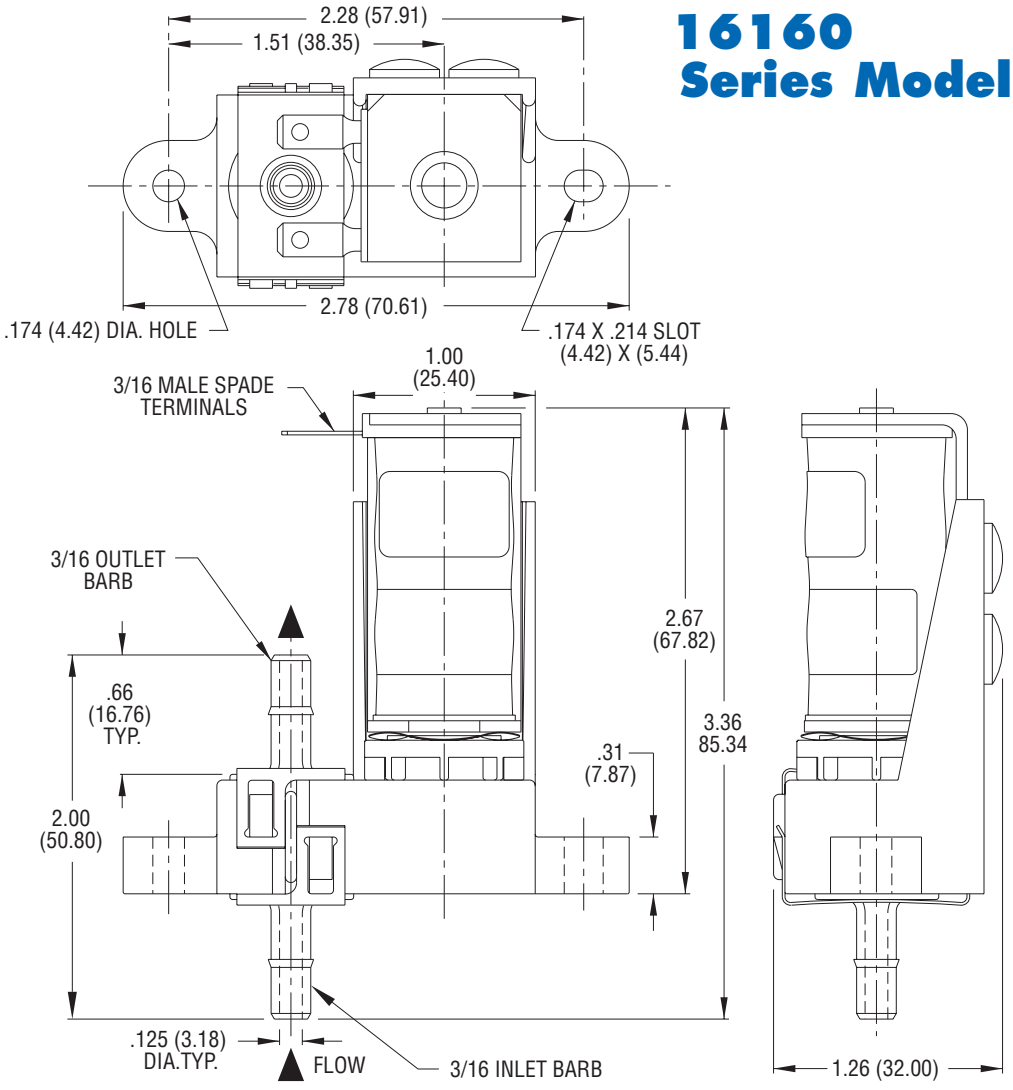
Features:

- Economical
- Self-priming
- No dynamic seals
- No backflow
- Continuous duty rated
- Corrosion resistant
- Dry run capability

OEM Options:

To meet OEM specifications, the following features can be added:

- Fixed flow up to 500 microliters per stroke for low heads
- Fixed flow can be down to 100 microliters per stroke
- Field adjustability with screw and locking nut
- Alternate materials of construction
- Stepper linear actuator can replace solenoid
- Various solenoid voltages
- Better repeatability



Dimensions in Inches (Dimensions in Millimeters)

Contact Us

Online Inquiry

The Pump People

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