590-24 MagnaValve®

Steel Shot Media Valve for Wheel Blast Machines

Features

- 30 300 lb/min (13.6 136 kg/min) flow rate range*
- ±5% full-scale accuracy
- Flow control for wheels up to 15 hp (11 kw)
- · Normally closed
- No moving parts
- Includes 6 ft. (1.83 m) plug and cable
- 24 Vdc
- CE compliant
- * Flow rate based on \$230 cast steel shot

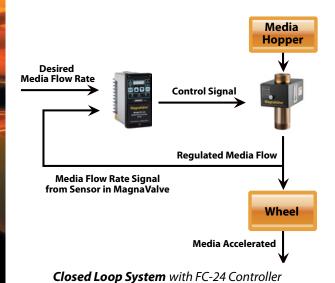


Description

The 590-24 MagnaValve® is a normally closed magnetic valve that regulates the flow of steel shot and grit in wheel blast machines. The MagnaValve's maintenance-free construction includes a strong and stable rare earth permanent magnet for normally closed operation and an electromagnet for controlling shot flow rates. With power applied to the MagnaValve, the magnetic field is neutralized and shot is allowed to flow through the valve. When no power is applied to the MagnaValve, the permanent magnet stops all flow. If the power is interrupted for any reason, the permanent magnet in the valve securely

holds the shot. The MagnaValve can be factory calibrated for various media types and sizes. It will be calibrated for the media type, size and flow rate specified on the purchase order.

When coupled with the El FC-24 Controller (sold separately), the 590-24 provides accurate and repeatable flow rates in a closed-loop system, meeting the requirements of AMS 2430, AMS 2432 and other aerospace standards.









Electronics Inc. 56790 Magnetic Drive Mishawaka, Indiana 46545 USA (574)256-5001 www.electronics-inc.com

MagnaValve® Specifications

590-24 MagnaValve®

Media Valve for Wheel Blast Machines

Power +24 Vdc @ 2A (50 VA)

Media All ferrous media except

Cast Stainless Steel

Maximum Pressure 100 PSI

Mode Normally Closed Temperature Range 40 - 110°F (5 - 43°C)

Servo Command Input 0 - 10 Vdc
Flow Enable Input 24 Vdc
Flow Sensor Output 0 - 10 Vdc
Display LEDs Valve On

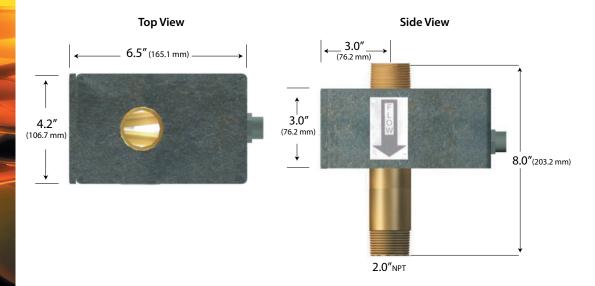
Command Input Flow Enable +24V Power

FC-24 Controller Specifications (sold separately)

Flow Sensor Input from MagnaValve 0 - 10 Vdc into 100K Flow Enable Input from PLC 24 Vdc @ 10 mA Flow Enable Output to MagnaValve 24 Vdc @ 10 mA

Servo Command Output to MagnaValve 0 - 10 Vdc Remote Setpoint Input from PLC 0 - 10 Vdc

MagnaValve® Dimensions





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