

WM 3000-24 MagnaValve

Magnetic Media Valve for Wheel Blast Machines

Features

- 24 Vdc
- Flow rate up to 3,000 lbs/min for steel shot*
- Provides motor amperage control when used with the Electronics Inc. AC-24 Controller (sold separately)
- Flow control for wheels up to 125 Hp
- Normally closed
- No moving parts

The WM 3000-24 is for blast cleaning machines in foundries and other high-volume applications



The WM 3000-24 comes with plug-in connection and a Remote Valve Driver (left) for convenient remote control, making it an ideal valve for work environments with extreme temperatures.

Description

The WM 3000-24 MagnaValve™ is a normally closed magnetic valve that regulates the flow of steel shot and grit in wheel blast machines. The MagnaValve works with its companion controller, the AC-24 Controller, and customer-supplied motor current transformer (0 -5 Amps signal) to regulate wheel motor amperage to any value from no-load to full-motor load. This closed-loop system provides accurate and repeatable flow rates of up to 3,000 lbs/min (1,361 kg/min).*

The MagnaValve's maintenance-free construction includes a rare earth permanent magnet for normally closed operation and an electromagnet for controlling shot flow rates. When no power is applied to the MagnaValve, the permanent magnet stops all flow. With power applied, the magnetic field is neutralized and shot is allowed to flow through the valve. If the power is interrupted for any reason, the permanent magnet in the valve securely holds the shot. The valve is factory tested and results are supplied upon request.

The WM 3000-24 MagnaValve system provides reliable, repetitive, and consistent media flow rates for blast cleaning applications. The MagnaValve makes it easy to document flow rates and establish or repeat a good set-up. It reduces media usage, energy costs, machine downtime, and wear and tear on equipment.

Clear and comprehensive installation manuals simplify installation for the WM 3000-24 MagnaValve and the AC-24 Controller. In addition, the products are supported by the Electronics Inc. application engineering staff.

* Flow rate based on S230 cast steel shot

Download the AC-24 Controller datasheet at www.electronics-inc.com

MagnaValve is a trademark of Electronics Inc.



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

Specification is subject to change without notice
Rev3 12/11

Valve Specifications

Power	+24 Vdc @ 2A (50 VA)
Media	Steel Shot and Grit
Weight	32 lbs (14.5 kg)
Mode	Normally Closed
Temperature Range	Valve: 50° - 230° F (10° - 110° C) Valve Driver: 50° - 120° F (10° - 49° C)
Servo Command Input	0 - 10 Vdc
Flow Output	0 - 3,000 lbs/min (0 - 1,361 kg/min)*
Display LEDs	Valve On Command Input Flow Enable +24V Power

Control - AC-24 Controller (sold separately)

Motor Amperage Input from Current Transformer	0 - 5 Amps Signal
Flow Enable Input from PLC	24 Vdc
Flow Enable Output to MagnaValve	24 Vdc
Servo Command Output to MagnaValve	0 - 10 Vdc
Remote Setpoint Input from PLC	0 - 10 Vdc

* Flow rate based on S230 cast steel shot

WM 3000-24 MagnaValve Magnetic Media Valve for Wheel Blast Machines



The WM 3000-24 comes with 6 ft. 6-conductor cable

