

The 600 Series MagnaValve® The Smart Valve with SteadyFlow Technology

INTRODUCING the 600 Series MagnaValves—a revolutionary advancement that surpasses its predecessors in terms of performance and user experience. This latest iteration comes equipped with a host of cutting-edge features that set it apart from previous versions of the MagnaValve, making it the ultimate choice for industrial applications.

One of the standout features of the 600 Series MagnaValves is the incorporation of a built-in servo. This innovative addition eliminates the need for a separate controller or the requirement for customers to write and implement a PID controller. This not only simplifies the installation process but also enhances operational efficiency—this makes it easier to integrate the MagnaValve seamlessly into existing machinery.

Another remarkable enhancement is the Jump-to feature. In contrast to previous versions that gradually ramped up media flow rates from 0 lb/min when enabled, the 600 Series starts at the desired flow rate instantaneously. This elimination of slow ramp-ups translates to shorter cycle times and significantly higher throughput, contributing to improved productivity and cost-effectiveness in industrial operations.

The 600 Series MagnaValve also embraces the advantages of modern technology with its embedded webpage. Unlike the costly and specialized communication cables required by its predecessors, the embedded webpage utilizes a standard Ethernet cable, reducing setup costs and complexity. This intuitive embedded webpage facilitates quick and easy setup and allows for seamless changes in settings and enhances user-friendliness and accessibility.

In summary, the 600 Series MagnaValves represent a major leap forward in industrial flow control. With its built-in servo, Jump-to feature, embedded webpage, simplified calibration, and LCD screen, this advanced device not only simplifies installation but also optimizes performance and productivity. By addressing the limitations of previous versions but keeping the field-tested benefits of the MagnaValves' unique construction, the 600 Series MagnaValves stand as a testament to innovation and excellence in industrial automation, making them the preferred choice for businesses seeking enhanced flow control solutions. ●

The LCD screen on the 600 Series MagnaValves provides critical process information at a moment's notice. It indicates that the "Enable" signal has been received and it displays the selected configuration table setting. The setpoint and the actual media flow rate are shown in the active bar graphs and digital formats. The "Servo" bar graph displays the output capacity of the valve from 0-100%. This is very helpful for diagnostics: If the Servo shows 100% output but the actual flow rate is zero (or very low), the valve has opened fully but the hopper is out of media.



The 678-24 MagnaValve

Flow Rate Ranges

676-24	.2 - 2 lb/min (.1 - 1 kg/min)
677-24	1 - 10 lb/min (.45 - 4.5 kg/min)
678-24	3 - 30 lb/min (1.4 - 13.5 kg/min)
679-24	10 - 100 lb/min (4.5 - 45 kg/min)
680-24	20 - 200 lb/min (9 - 90 kg/min)
690-24	30 - 300 lb/min (13.6 - 136 kg/min)

Flow rates based on S230 cast steel shot

Features

- 24 Vdc
- Non-pulsing media flow
- ±10% setpoint accuracy (meets AMS 2432 Rev E)
- Ethernet with Embedded Webpage
- Normally closed
- Built-In Servo
- No moving parts for low-maintenance operation
- Desired Flow Jump-To (US Patent Pending)
- Meets SAE AMS 2430 and 2432 Rev E specifications
- Customizable LCD screen
- Simplified installation and calibration
- CE compliant
- 0 - 10 Vdc, 4 - 20 mA, I/O

Specifications

Power	+24 Vdc @ 2A (50 VA)
Temperature Range	32°F - 131°F (0°C - 55°C)
Media	Ferrous media
Flow Enable Input	24Vdc ±2 into 20K
Setpoint Input	0 - 10 Vdc / 4 - 20 mA
Maximum Pressure	100 PSI
Mode	Normally Closed
Ethernet	10/100 Mbps
Flow Sensor Output	0 - 10 Vdc, max output 11.5 Vdc 4 - 20 mA, max output 15 Vdc

For more information on the 600 Series MagnaValve, contact the EI Customer Service staff at 1-800-832-5653 or visit www.electronics-inc.com.