

microwaveValve

Microwave Assisted Media Dosage Unit for Shot Peening



THE WORLD'S FIRST

- Flowrate Valve designed for non-ferrous media with microwave technology for shot peening
 - µWValve-07: Range 0.7-7 kg/min (non-ferrous)
- PA Flowmaster capable of controlling multiple flowrate valves

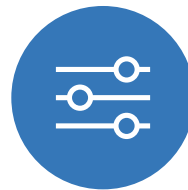
BENEFITS



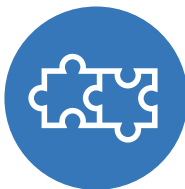
Real-time and precise flow rate monitoring



Full scale accuracy according to AMS specification



Control of up to 4 valves with single FlowMaster controller



Compatibility with existing PA FlowMaster controller



Non-contact based sensing mechanism for both ferrous and non-ferrous media

peening accessories GmbH

Contact the official distributor at:
Peening Accessories GmbH
Frohbergstr. 38, 8620 Wetzikon Switzerland

 www.peening.ch

 info@peening.ch

PA microwaveValve

Purpose

Flow rate control valve for non-ferrous and ferrous media for peening and blasting machines

Model

μWValve-07: Range 0.7-7 kg/min (non-ferrous)

Features

- ±10% accuracy under a Suction Blast System only
- FPGA technology, closed loop in real-time
- Shock resistant Touchscreen for improved troubleshooting
- Meets AMS 2432 specifications
- Digital signal: no data transmission lost
- Only one cable per valve
- Able to include 4 media calibrations in one valve
- Includes a 5 meter wire (optional: 1m)
- 24V DC
- CE compliant
- Patented in USA and China



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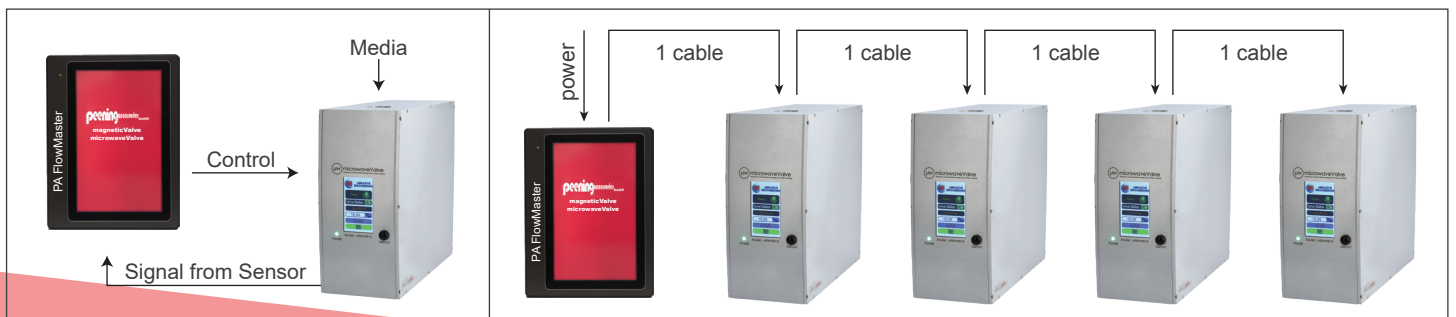
used only for suction systems

Description

The unit is a precision control valve that regulates media in pressure or gravity feed peening and blasting machines. The valve has a built-in flow sensor that is able to provide closed loop feedback to the shot flow processor. The shot flow processor is a high end processing device which regulates the media flow rate with auto tune technology.

When connected to the PA FlowMaster, the configuration of the PA microwaveValve can be retrieved and manipulated by the users for their desired applications. The equipment can be operated in two modes – manual mode or auto mode. Manual mode allows users to control the valve with constant flow rate, while auto mode enables auto tune technology to regulate the flow rate.

The PA microwaveValve complies with AMS 2432 and other technical requirements. It only needs a 24V DC power supply to operate.

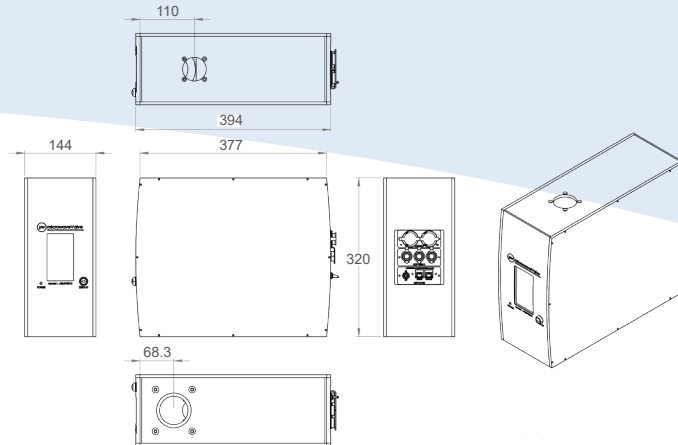


Closed loop system using PA FlowMaster (sold separately) and PA microwaveValve

Easy plug & play system with a minimum of cables. Valves connect in serial order.

Specifications

Power	24 Vdc @ 4A (100 VA)
Media	Non-ferrous media
Maximum pressure	6 bar (100 PSI)
Mode	Manual/Auto
Temperature range	5° – 48 ° C (40 ° – 110 ° F)
Analog input	0 – 10 Vdc
Valve ON signal supply	24 Vdc
Flow sensor output	0 – 10 Vdc



Price

μWValve-07: Range 0.7-7 kg/min (non-ferrous)	Ref. No. 822 210	Price on request
Recalibration for 1 valve	Ref. No. 822 900-R	Price on request

PA FlowMaster (sold separately)

	Power	24 Vdc @ 0.5 A
	Analog input	0 – 10 Vdc
Flow recording output	0 – 10 Vdc	
Flow enable output	24 Vdc @ 10 mA	
Temperature range	32 – 122 ° F (0 – 50 ° C)	
Dimensions	188mm (W) x 143mm (H) x 90mm (D)	
Display touchscreen	7"	
Functions	Flow rate display: Up to 4 valves! Substantial cost savings if more than one valve is in use.	
	Valve status	
	Standard configuration 6 languages: English, Spanish, French, German Chinese Simplified, Japanese. Other languages on request.	
	Up to 64 peening data recipes	
	Configuration	
Alarm system		



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