

# **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

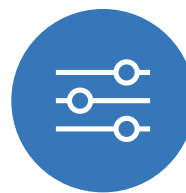
## BENEFITS



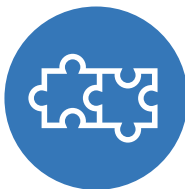
**Real-time and precise** flow rate monitoring



**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](http://www.peening.ch)



[info@peening.ch](mailto: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



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

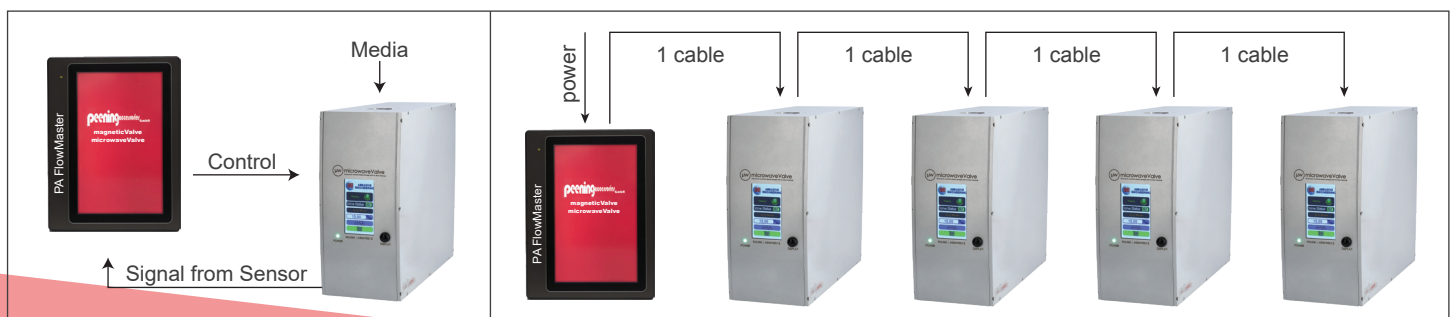
used only for suction systems

### Description

The unit is a precision control valve that regulates media in 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.

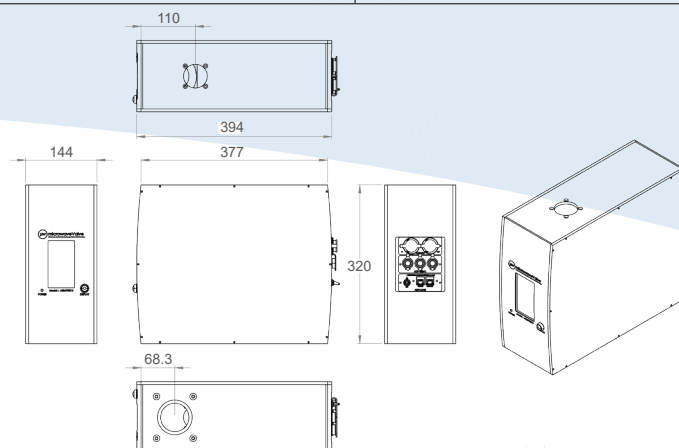


Closed loop system using PA FlowMaster (sold separately) and PA microwaveValve

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!<br><b>Substantial cost savings if more than one valve is in use.</b>                                 |
|  |                       | Valve status                                                                                                                            |
|  |                       | Standard configuration 6 languages:<br>English, Spanish, French, German<br>Chinese Simplified, Japanese.<br>Other languages on request. |
|  |                       | Up to 64 peening data recipes                                                                                                           |
|  |                       | Configuration                                                                                                                           |
|  |                       | Alarm system                                                                                                                            |



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