

# Pz1200 Piezoelectric Jet/Contact Dispense Valve

The Pz1200 piezoelectric valve can be configured as a non-contact jet or precise high-speed contact dispensing valve. The advanced piezoelectric ceramic actuation technology achieves exceptional levels of dispense accuracy and superior process control.

The inclusion of an integrated closed loop heating circuit can be used to stabilize fluid viscosity and/or assist in optimizing dispense process control.

Its modular construction gives complete versatility for it being correctly configured for both application process and dispense fluid.



## Features

- Dot size as small as 1nl/0.2 mm
- Exceptional dispense accuracy
- Fixed valve stroke ensures superior process control
- Continuous cycle rates up to 1,000 Hz
- Modular design allows wetted parts to be easily serviced
- Fast cycle times and long service life
- Durable ceramic cartridge ball and valve seat
- Closed loop fluid heating

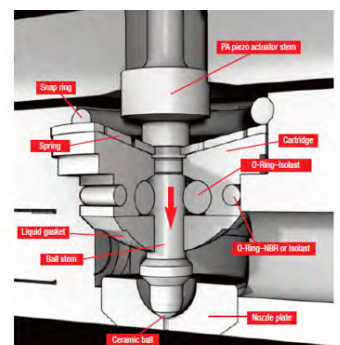
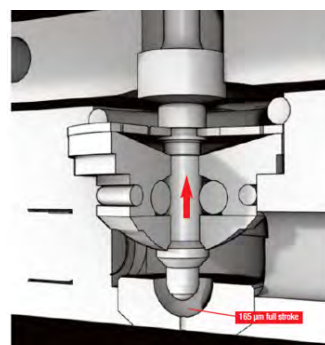
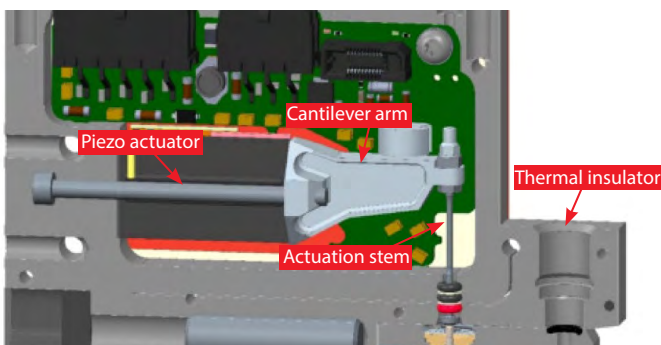
## Benefits

- When used as a jet valve, Z-Axis movement in between cycles is eliminated, which results in increased production cycle speeds
- Reduced production downtime due to faster maintenance times
- Ideal for use on uneven substrates or hard to access areas
- Compatible with a range of fluids

## Piezo Technology - Valve Operation

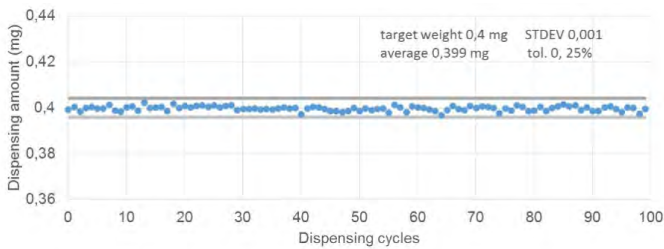
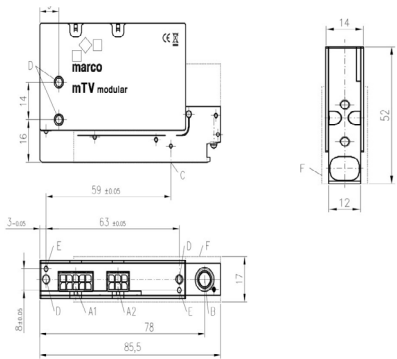
The piezo actuator is composed of two stacks of ceramic disks that change shape as voltage is applied. This creates a deflection in the cantilever arm, causing the actuator stem to lift at a fixed stroke...

When the ceramic ball lifts off its ceramic seat, the resulting cavity fills with fluid. As the ball reseats, a fluid droplet ejects from the valve...



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## Pz1200S/Pz1200D



Example of the dispensing results for a UV-curing adhesive (2.000 cP/s)

## Specifications

Item Number	Pz1200S	Pz1200D
<b>Material Delivery Pressure</b>	1,000 psi max	1,000 psi max
<b>Viscosity Range</b>	1-100,000 cps	50,000 cps (paste like)
<b>Wetted Components</b>	Stainless steel 303, Ceramic FFKM, NBR, PEEK	Stainless steel 303, Ceramic FFKM, NBR, PEEK
<b>Material Inlet</b>	M8x1	M8x1
<b>Min. Dispensing Time</b>	0.20ms	0.18ms
<b>Max Continuous Dispensing Frequency</b>	1,200 Hz	500 Hz
<b>Max. Burst Dispensing Frequency</b>	2,000 Hz	750 Hz
<b>Maintenance/Inspection Interval</b>	Approx. 10,000,000 cycles (fluid dependant)	Approx. 10,000,000 cycles (fluid dependant)
<b>Dispensing Accuracy</b>	>99% (non-varying conditions)	>99% (non-varying conditions)
<b>Max. Fluid Input Pressure</b>	Up to 75 Bar	Up to 75 Bar
<b>Max Fluid Temperature Range</b>	Up to 75 °C	Up to 75 °C
<b>Weight</b>	320 g	320 g
<b>Dimensions</b>	86 x 17 x 52 mm	86 x 17 x 52 mm

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