

Pz1200 Piezo Electric Jet/Contact Dispense Valve

The Pz1200 piezo electric valve can be configured as a non-contact jet or precise high-speed contact dispensing valve. The advanced piezo-electric 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 stabilise 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/0.2mm
- Exceptional dispense accuracy
- Fixed valve stroke ensures superior process control
- Continuous cycle rates up to 1000Hz
- 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

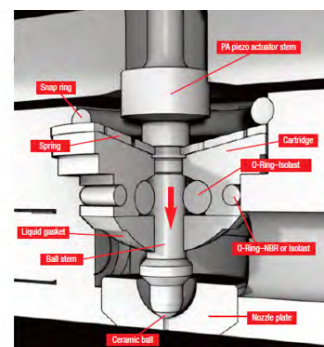
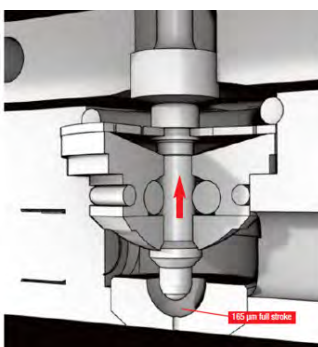
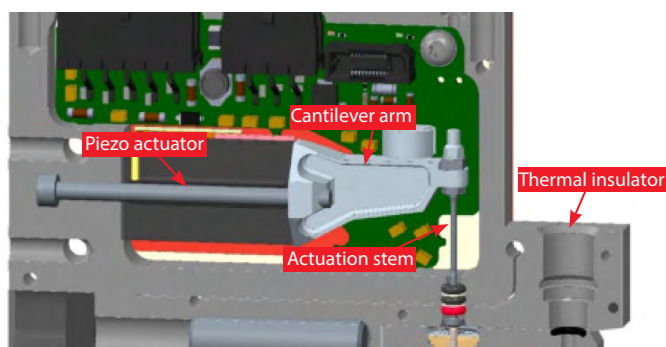
Benefits

- 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

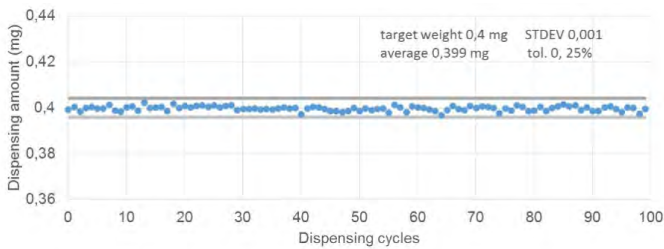
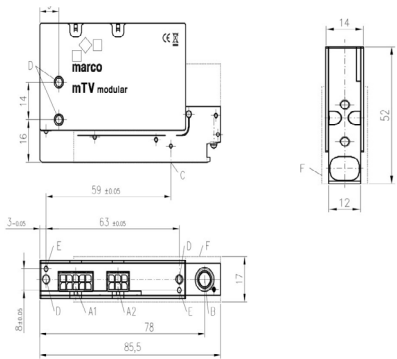
The piezo actuator is composed of two stacks of ceramic disks that change shape as voltage is applied. This creates a deflection in the cantilever arm, causing the actuator stem to lift at a fixed stroke...

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 cPs)

Specifications

Item Number	Pz1200S	Pz1200D
Material Delivery Pressure	1,000psi max	1,000psi max
Viscosity Range	1-100,000 Cps	50,000 Cps (paste like)
Wetted Components	Stainless steel 303, Ceramic FFKM, NBR, PEEK	Stainless steel 303, Ceramic FFKM, NBR, PEEK
Material Inlet	M8x1	M8x1
Min. Dispensing Time	0.20ms	0.18ms
Max Continuous Dispensing Frequency	1200Hz	500Hz
Max. Burst Dispensing Frequency	2000Hz	750Hz
Maintenance/Inspection Interval	Approx 10,000,000 cycles (fluid dependant)	Approx 10,000,000 cycles (fluid dependant)
Dispensing Accuracy	>99% (non-varying conditions)	>99% (non-varying conditions)
Max. Fluid Input Pressure	Up to 75 Bar	Up to 75 Bar
Max Fluid Temperature Range	Up to 75°C	Up to 75°C
Weight	320g	320g
Dimensions	86 x 17 x 52mm	86 x 17 x 52mm

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