

L-Jet



High Precision Micro Dispensing: Reliable – Accurate – Fast

High Performance Jet Valve: For contactless dispensing low to medium viscous dispensing materials. Dispensing frequencies of up to 150 Hz allow for a faster production process. The fluid-carrying components are quick and easy to exchange – The separation of the actuator from the fluid-carrying components ensures a reliable dispensing process.

Dispensing Advantages

- Usable with highly abrasive dispensing materials
- Easily exchangeable nozzles and dispensing tappets
- Fluid-carrying components are easy to sterilise
- Fluid-carrying components separated from the actuator
- Highest dispensing frequencies of up to 150 Hz
- High repeatability
- High accuracy
- Bead / line dispensing
- Smallest volumes accessible
- Easy to use and maintain
- Low voltage
- Normally closed (NC)
- Optimized dead space volume
- Resistant to chemicals (acids, alkalis, etc.)

Typical Dispensing Materials

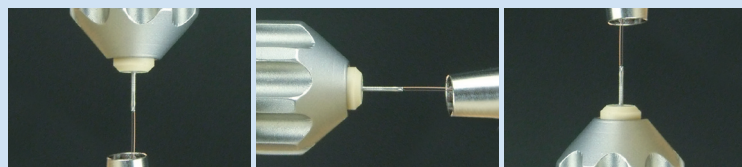
Oil, grease, glue, silicone, paint, flux, medical materials, and many other chemicals (including filled materials).

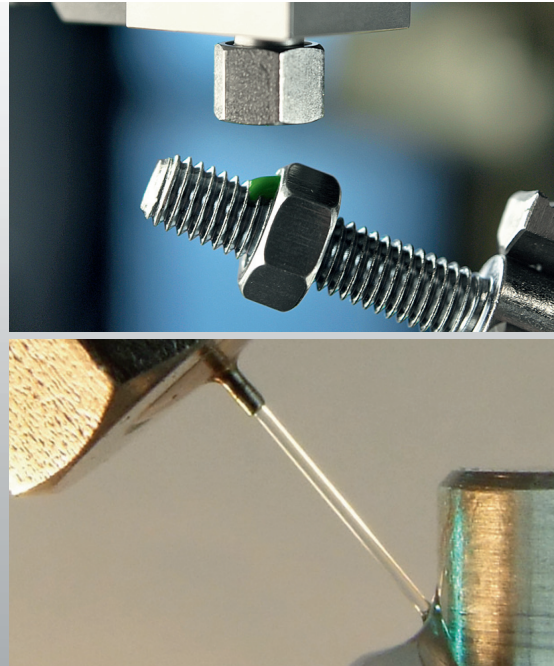
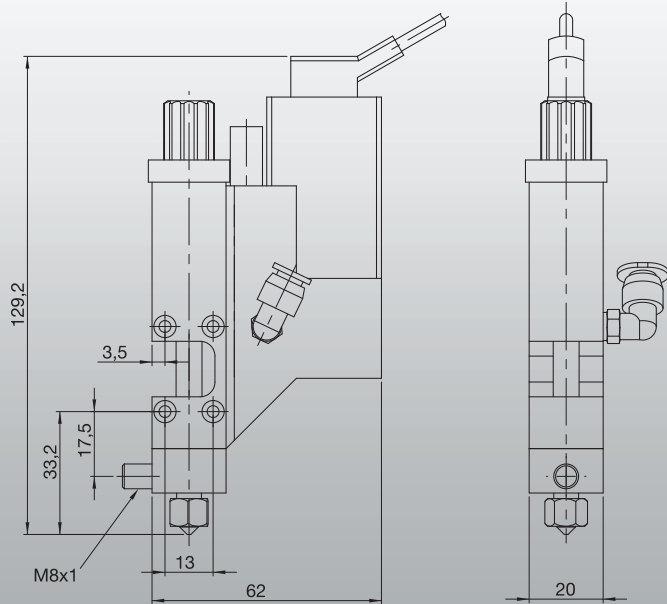
Main Industries

Electronics, Solar, Automobile, Packaging, Furniture, Medical, Cosmetic, Food, Special Machines

Highlight

3D contactless dispensing





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Contactless Dispensing – Safe and Easy

The L-Jet valve is particularly suited for dispensing fluid dispensing materials. The adjustable dispensing volume starts at 10 nl. The L-Jet valve can be used for dynamically dispensing small quantities as well as larger volumes. Dispensing tappets and nozzles can be exchanged by the operator. Thus highly abrasive dispensing materials can also be dispensed efficiently. The separation of the actuator from the fluid-carrying components protects the valve's system and provides a particularly reliable process.

Even the most demanding processes – due to product and/or positional tolerances – are easy and simple to implement with contactless dispensing.

Function: The L-Jet valve is triggered through an adjustable impulse signal starting at 2 ms. The dispensing tappet remains open until the trigger signal ends. The valve is closed when idle (NC).

Technical Specifications

Initial position: NC (Normally closed)

Shot size: From 10 nl

Viscosity range: 0.5 – 5,000 mPas (thixotropic)

Accuracy: > 97 % (Dispensing tolerance < 3 %)

Frequency: Up to 150 shots/sec (Hz)

Fluid pressure: 0.2 to 6 bar (up to 50 bar)

Operating medium: compressed air, oil-free, filtered (filter unit 40 µm)

Operating pressure: 5 to 8 bar

Switching time: Starting at 2 ms

Electrical input: 24 V, PLC-compatible

Service life: > 100,000,000 cycles

Weight: 236 g

Ambient temperature: -5 to +40 °C

Actuator: Electropneumatic

Construction: Robust industrial design, class II equipment, splashproof in accordance with IP 65