High performance Jet valve: For contactless dispensing of low to medium viscosity fluids. Dispensing frequencies of up to 280 Hz allow for a faster production process. The fluid-carrying components are quick and easy to exchange – Reliable process due to the separation between the actuator and fluid-carrying components.

Dispensing advantages
- Usable with highly abrasive mediums
- Easily interchangeable nozzles and dispensing tappets
- Fluid-carrying components easy to sterilise
- Separation between fluid-carrying components and actuator
- Highest dispensing frequency of up to 280 Hz
- High repeatability
- High accuracy
- Bead/line dispensing
- Smallest volumes accessible
- Easy to use and maintain
- Low voltage
- Normally closed (NC)
- Optimized dead volume
- Resistant to chemicals (acids, alkalis, etc.)

Typical dispensed products
Oil, grease, glue, silicon, paint, flux, medical products, and many other chemicals. (Filled products included)

Main industries
Electronic, solar, automobile, packaging, furniture, medical, cosmetic, food, special machines

Highlight
3D contactless dispensing
The P-Jet CT is particularly suited to dispense fluid mediums. The adjustable dispensable volume starts at 3 nl. With the P-Jet CT it is possible to dynamically jet dispense small quantities as well as larger volumes. Dispensing tappets and nozzles can be exchanged by the operator. Thus highly abrasive mediums can also be dispensed efficiently. The separation between the actuator and fluid-carrying components protects the valve 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 P-Jet CT is triggered through and 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 3 nl
Viscosity range: 0.5 – 10,000 mPas (thixotropic)
Accuracy: > 97% (Dispensing tolerance < 3%)
Frequency: Up to 280 shots/sec (Hz)
Fluid pressure: 0.2 to 6 bar (up to 100 bar)
Operating medium: dry compressed air, oil-free, filtered (filter unit 40 µm)
Operating pressure: 4 to 8 bar
Switching time: Starting at 2 ms
Electrical input: 24 V, PLC compatible
Service life: > 100,000,000 cycles
Weight: 270 g
Ambient temperature: -5 to +40 °C
Actuator: Electropneumatic
Construction: Robust industrial design, class II equipment, splashproof in accordance with IP 65