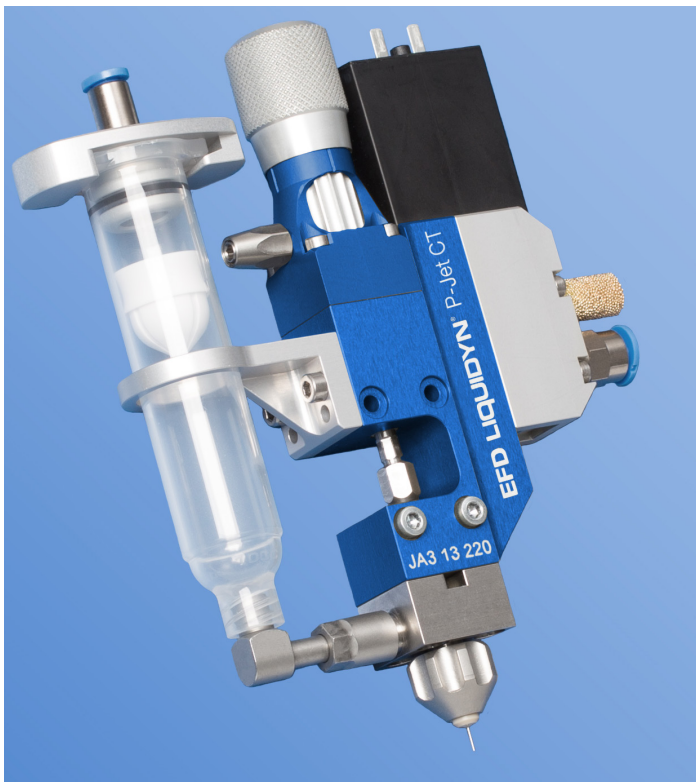
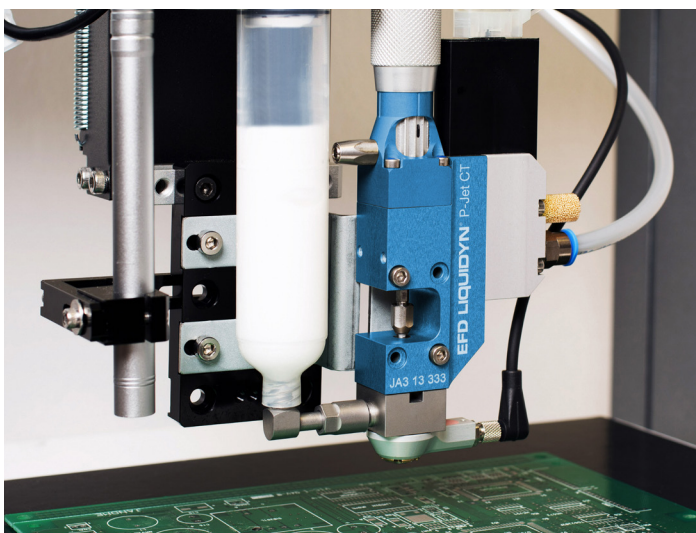


Liquidyn P-Jet Series Pneumatic Jet Valve

High-precision micro-dispensing: stable, accurate, fast and flexible



The high-performance Liquidyn P-Jet valve provides both non-contact and contact dispensing capability.



Material can be heated at the nozzle for improved dispensing results.

The Liquidyn® P-Jet is a high performance jet valve designed for the non-contact micro-dispensing of low- to medium-viscosity fluids, including oils, greases, glues, flux and filled products. The Liquidyn P-Jet valve can produce micro-deposits as small as 3 nL at dispensing frequencies of up to 280Hz, for a faster production process. The valve can also dispense larger fluid volumes and is capable of both dot and line dispensing.

The Liquidyn P-Jet valve's fluid-carrying components are separate from the actuator and are available in both stainless steel and plastic (PEEK), allowing them to be quickly and easily exchanged. This modular design makes the valve capable of dispensing a wide variety of materials and also makes fluid-type changeout and component replacement fast and easy.

Electro-pneumatically operated by a low voltage trigger, the Liquidyn P-Jet features an adjustable pulse signal. The valve can be operated using either a Liquidyn valve controller or a customer-supplied high-level controller, such as a PLC. Valve pulse time can start at 2 ms. The dispensing tappet remains open until the trigger signal ends.

Even the most demanding or delicate processes — whether due to product complexity or positional tolerances — are easy to implement with Liquidyn P-Jet valve non-contact dispensing.

Features

- Suitable for low- to medium-viscosity fluids
- Dispensing volume starting at 3 nL
- Dispensing frequencies as high as 280Hz
- Bead or line dispensing capability
- Low voltage operation (24 VDC)
- Modular design
- 3D dispensing

Benefits

- High repeatability and high accuracy provide very consistent dispensing results for higher productivity.
- Interchangeable components mean quick changeout of fluid types and easy service and maintenance.
- Highly abrasive mediums, in addition to low-viscosity fluids, can be dispensed.
- IP65-compliant construction makes the valve dust-proof and wash-down friendly.

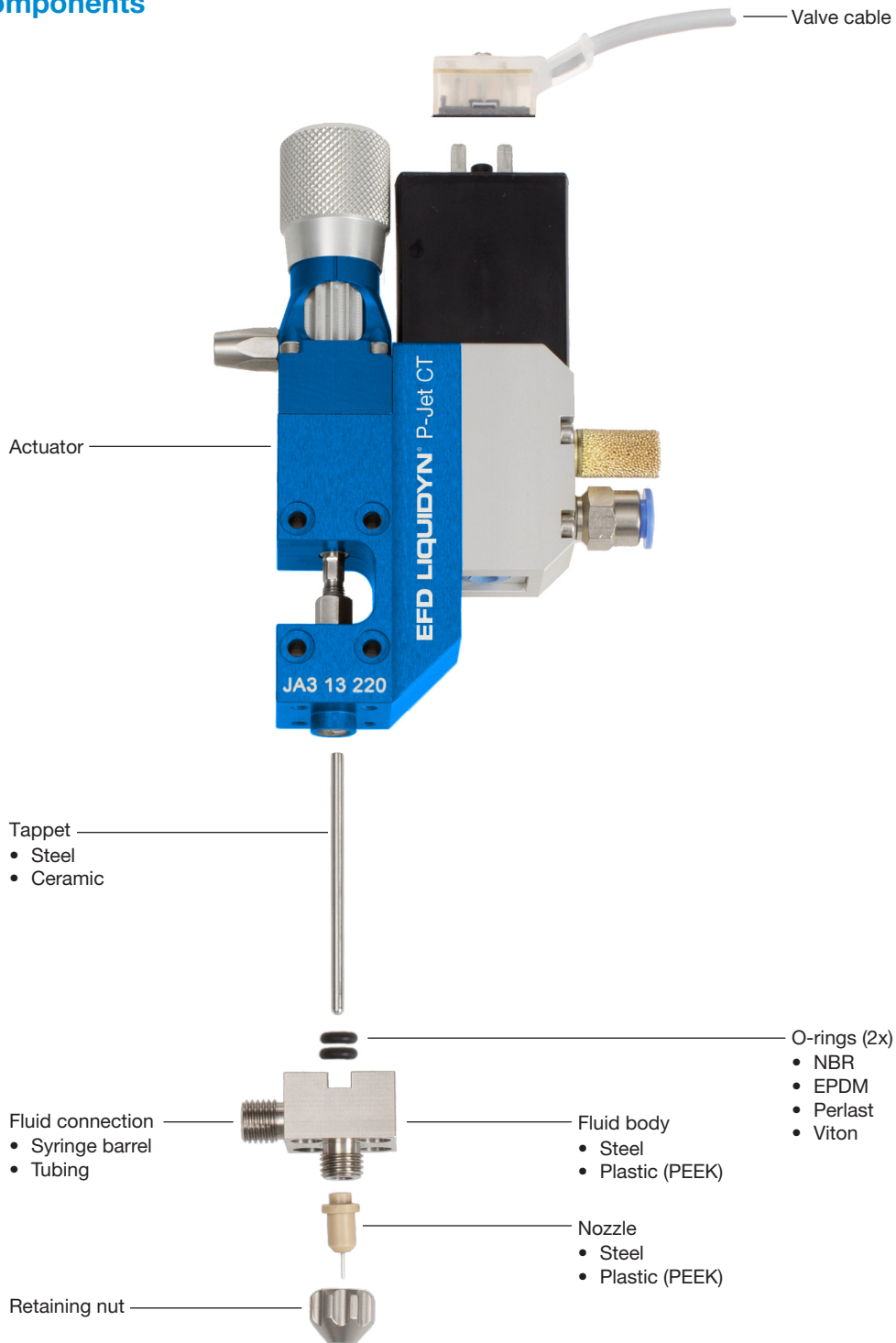


more info

Configure your modular Liquidyn P-Jet micro-dispensing valve

The Liquidyn P-Jet micro-dispensing valve can be uniquely configured to achieve the best dispensing result for your material and application. A Nordson EFD application specialist will help select the best valve system components for optimal jetting performance.

Select the components



If the material needs to be heated for better dispensing, select a nozzle heater.

Partial listing of component selections. Consult EFD for full listing of available components



Actuator

| Part # | Description |
|---------|---|
| 7825004 | Liquidyn P-Jet CT Actuator |
| 7825932 | Liquidyn P-Jet AN Valve (complete valve preconfigured with metal-free wetted parts) |



Basic Components

| Part # | Description |
|---------|--|
| 7825024 | Steel tappet Liquidyn P-Jet (Standard) |
| 7825028 | Ceramic tappet |
| 7825037 | Steel fluid body |
| 7825038 | Plastic (PEEK*) fluid body |
| 7825182 | 2.5 m (8.2 ft) M8 valve cable |
| 7826082 | O-rings (between the tappet and fluid body), Perlast® (5 pack) |
| 7826084 | O-rings (between the tappet and fluid body), Viton® (5 pack) |
| 7826085 | O-rings (between the tappet and fluid body), Viton (50 pack) |



Nozzles

| Part # | Description |
|---------|--|
| 7825042 | Hexagon retaining nut |
| 7825044 | Knurled retaining nut for Plastic (PEEK*) nozzles with tip |
| 7825063 | Steel flat nozzle, 150 µm |
| 7825075 | Steel needle nozzle, 150 µm |
| 7825094 | Plastic (PEEK*) needle nozzle with steel, 150 µm |
| 7825100 | Plastic (PEEK*) needle nozzle with PTFE tip, 200 µm |



Fluid Supply

| Part # | Description |
|---------|---|
| 7825120 | Steel luer lock adapter for syringe barrels |
| 7825121 | Plastic (PEEK*) luer lock adapter for syringe barrels |
| 7825136 | Plastic (PEEK*) tube connector for 3.2 mm OD tubing |

*Polyetheretherketone

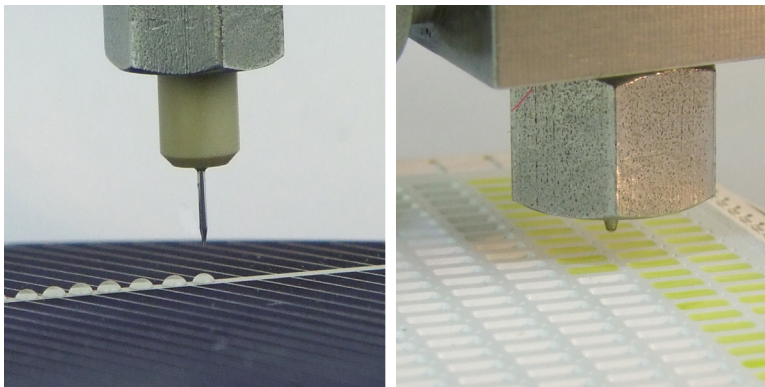
The optimum valve configuration will be determined through an initial dispensing test.

Specifications

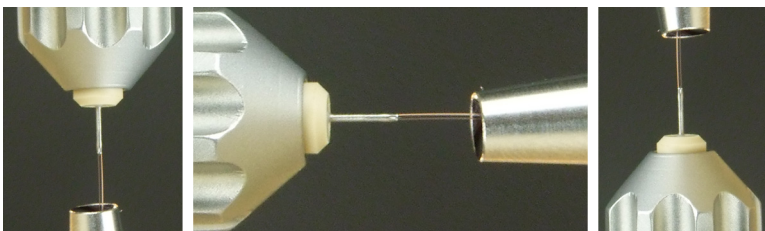
| Item | Specification |
|-----------------------------|--|
| Size | 20w x 138.5H x 78.5L mm (0.8w x 5.5H x 3L") |
| Weight | 270.0 g (9.5 oz) |
| Maximum fluid pressure | 100 bar (1450 psi) |
| Fluid inlet | M8 x 1, flat sealing |
| Mounting | M3 x 25 |
| Maximum operating frequency | 280Hz |
| Pulse time | Starting at 2 ms |
| Input air pressure | 3–8 bar (44–116 psi) |
| Fluid body | 303 stainless steel or PEEK |
| Heater body | Aluminum |
| Approvals | CE*, UKCA, TUV |
| Warranty | 1 year, limited |

All stainless steel parts are passivated.

*This valve meets the EN 61326-1:2013, FCC Part 15 Subpart B, and ICES-003 Issue 6 product family standard for immunity and emissions when connected to a Nordson EFD Liquidyn controller. Usage with any other controller does not guarantee electromagnetic compatibility (EMC) performance.



Non-contact micro-dispensing of beads and fills onto delicate surfaces is easy and repeatable.



Jet lines or beads onto uneven surfaces from any direction.

Flexible Mounting Options

The Liquidyn P-Jet valve provides three-dimensional (3D) dispensing for jetting into difficult-to-access areas and onto uneven or unusual surfaces. This mounting flexibility, along with a small footprint, makes it ideal for installation into tight spaces.

Valve Control

Valve open time is the primary control of deposit size. The valve can be operated using a Liquidyn valve controller or directly by the customer via a 24V input (for example, from a customer-supplied controller or a PLC). Using a Nordson EFD controller offers the following advantages:

- Easy deposit size control
- Increased production output
- End user convenience
- On-the-fly adjustability
- Maximum machine efficiency

Request a Process Evaluation

Contact Nordson EFD to configure a complete P-Jet valve non-contact dispensing system that meets your specific needs, with:

- A detailed process evaluation by experienced fluid dispensing experts at one of our full-service Global Application Labs.
- Samples processed for customer evaluation and approval prior to purchase.



For Nordson EFD sales and service in over 40 countries, contact Nordson EFD or go to www.nordsonefd.com.

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