

# Liquidyn P-Jet SolderPlus Jetting System

Comprehensive solder paste jetting solution with high repeatability and accuracy



The high-performance Liquidyn P-Jet SolderPlus valve provides a complete solution for non-contact dispensing with solder paste.



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

The Liquidyn® P-Jet SolderPlus® is a high performance jet valve system designed for the non-contact micro-dispensing of Nordson EFD SolderPlus® solder paste and filled products. The Liquidyn P-Jet SolderPlus valve can produce micro-deposits as small as 700 µm at dispensing frequencies of up to 25Hz, for a faster production process. The valve can also dispense larger fluid volumes and is capable of both dot and line dispensing.

EFD's pre-qualified SolderPlus solder paste formulations save time and streamline implementation by delivering a complete solder jetting solution. Specialized ISO-certified SolderPlus solder paste formulations come in a wide variety of leaded and lead-free alloys. EFD solder paste representatives can help identify formulations that best suit each application.

Electro-pneumatically operated by a low voltage trigger, the P-Jet SolderPlus valve features an adjustable pulse signal. The valve can be operated using either a Liquidyn controller or a PLC. Valve pulse time can start at 2 ms.

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

## Features

- Suitable for use with a wide variety of EFD SolderPlus pastes
- Volumes starting at 3 nL with deposits as small as 700 µm diameter
- Dispensing frequencies as high as 25Hz
- Dot and line dispensing capability
- Low voltage operation (24 VDC)

## Benefits

- Pre-qualified SolderPlus solder paste formulations save time and streamline implementation by delivering a qualified complete system
- Non-contact jet dispensing provides extremely repeatable, accurate fluid deposits at higher speeds for greater productivity
- Modular valve design simplifies maintenance and serviceability



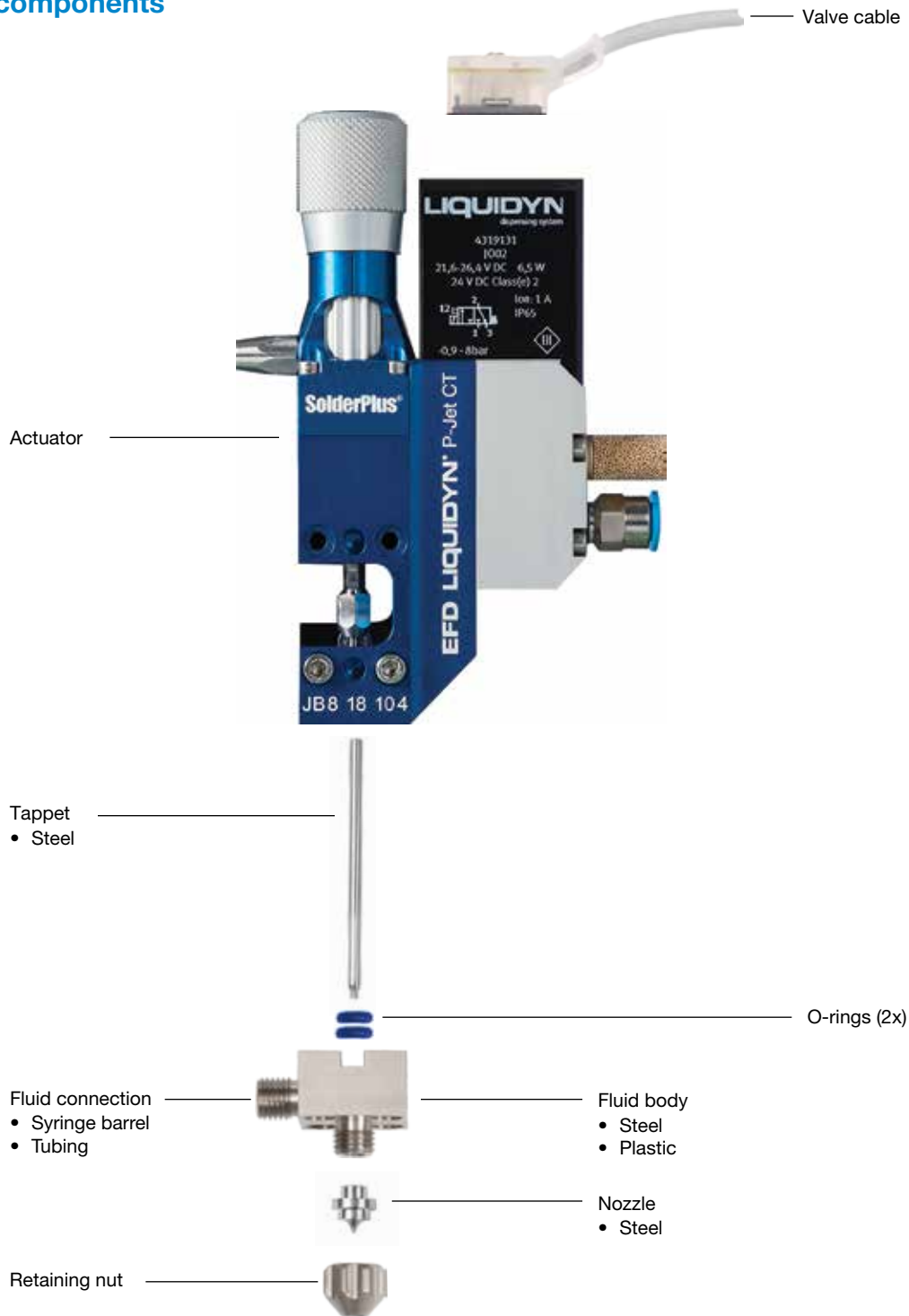
more info



# Your Comprehensive Solder Paste Jetting System

The Liquidyn P-Jet SolderPlus valve is the complete system for solder paste jetting needs. This modular valve design simplifies maintenance and serviceability.

## Select the components



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



### Actuator

Part #	Description
7825923	Liquidyn P-Jet SolderPlus Actuator

### Basic Components



Part #	Description
7825924	Stainless steel concentricity measuring tool
7825922	Steel tappet Liquidyn P-Jet SolderPlus
7825037	Steel fluid body
7825038	Plastic fluid body
7825182	2.5 m (8.2 ft) M8 valve cable
7825188	EPDM O-ring (gasket)
7825925	NBR PTFE O-ring 2 x 1.5 70A (gasket)
7825190	Viton® O-ring (gasket)
7825148	Standard nozzle heater
7825153	Small nozzle heater
7825176	Cable for nozzle heaters

### Nozzles



Part #	Description
7825042	Hexagon retaining nut
7825044	Knurled retaining nut for plastic nozzles with tip
7825919	Stainless steel needle nozzle, 250 µm

### Fluid Supply



Part #	Description
7825120	Steel luer lock adapter for syringe barrels
7825121	Plastic luer lock adapter for syringe barrels
7825136	Plastic tube connector for 3.2 mm OD tubing
7825137	Steel tube connector for 4 mm OD tubing

## Specifications

Item	Specification
Size	20W x 138.5H x 78.5L mm (0.8"W x 5.5"H x 3"L)
Weight	270 g (9.5 oz)
Maximum fluid pressure	100 bar (1450 psi)
Fluid inlet thread	M8 x 1, flat sealing
Mounting	M3 x 25
Maximum operating frequency	25Hz
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

\*Polyetheretherketone

## Flexible Mounting Options

The Liquidyn P-Jet SolderPlus 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

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

## SolderPlus Solder Paste

Nordson EFD's comprehensive line of ISO-certified solder paste solutions include high quality dispensing soldering pastes that meet the most stringent application requirements. Visit [www.nordsonefd.com/SolderPlusPaste](http://www.nordsonefd.com/SolderPlusPaste) for details or to request a free sample.

## Request a Process Evaluation

Contact Nordson EFD to configure a complete Liquidyn P-Jet SolderPlus jetting 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](http://www.nordsonefd.com).

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