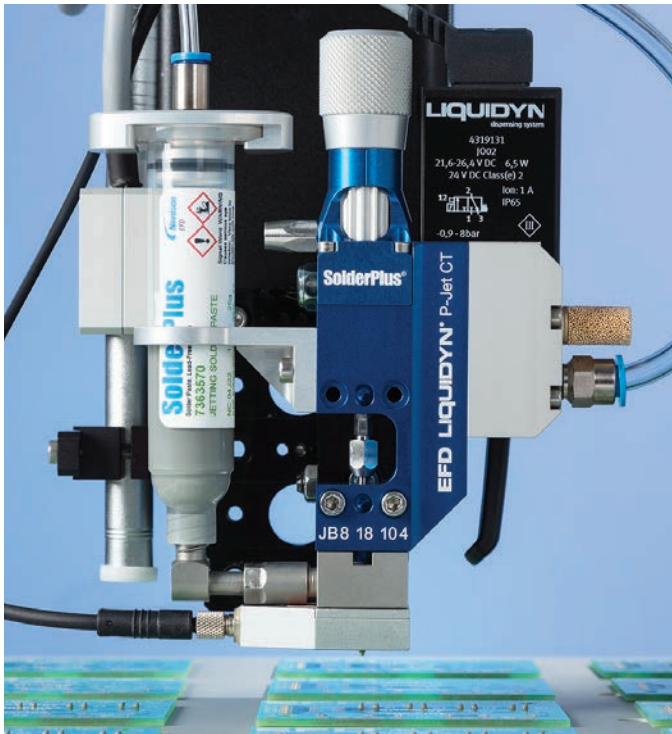
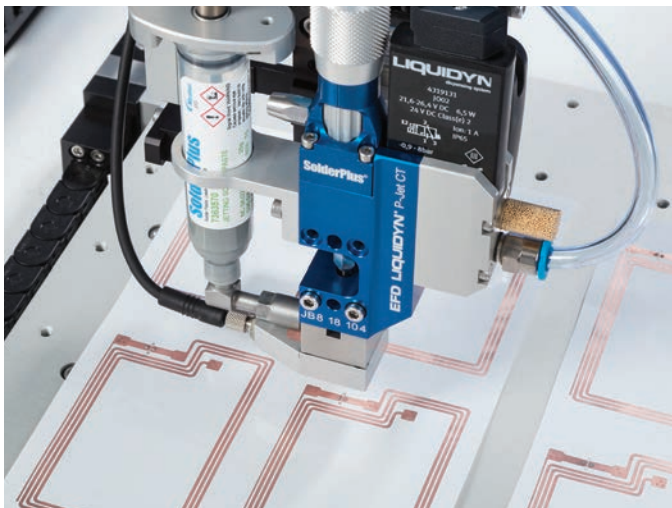


# Liquidyn P-Jet SolderPlus Jetting System

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 750 µm at dispensing frequencies of up to 100Hz, 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 750 µm diameter
- Dispensing frequencies as high as 100Hz
- 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



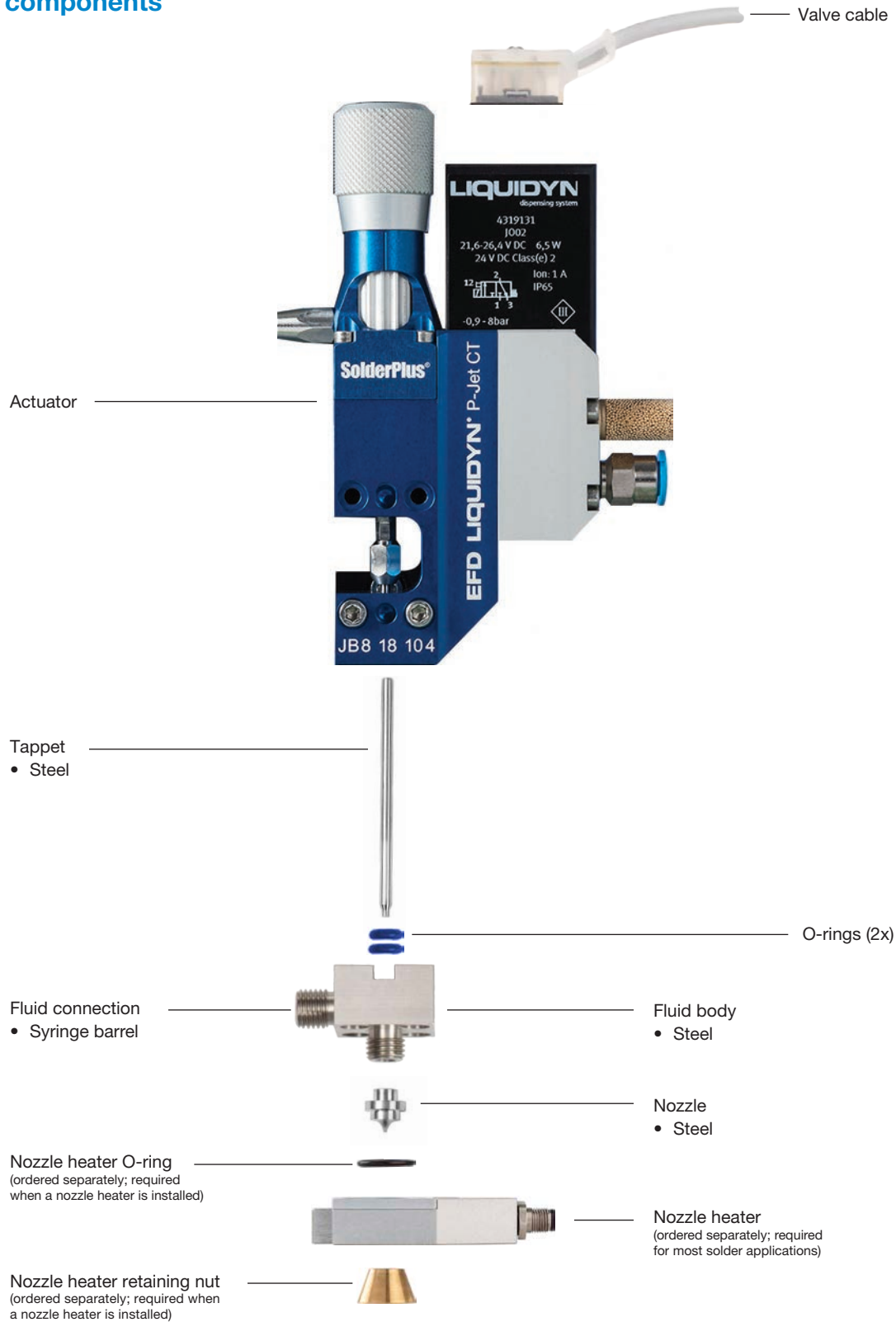
more info



# 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	Tappet alignment tool, concentricity tool
7825037	Steel fluid body
7825182	2.5 m (8.2 ft) M8 valve cable
7825176	3 m (10 ft) M5 valve cable, straight plug
7826080	O-rings (between the tappet and fluid body), EPDM (5 pack)
7826081	O-rings (between the tappet and fluid body), EPDM (50 pack)
7826082	O-rings (between the tappet and fluid body), Perlast® (5 pack)
7826083	O-rings (between the tappet and fluid body), Perlast (50 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)
7826092	O-rings (between the tappet and fluid body), NBR (5 pack)
7826093	O-rings (between the tappet and fluid body), NBR (50 pack)
7825148	Standard nozzle heater
7825209	Heater key

### Nozzles



Part #	Description
7825042	Hexagon retaining nut
7825919	Stainless steel needle nozzle, 250 µm
7825051	Stainless-steel retaining nut for the standard nozzle heater
7825047	Stainless-steel retaining nut for the small nozzle heater

### Fluid Supply



Part #	Description
7825120	Steel luer lock adapter for syringe barrels

## Specifications

Item	Specification
Size	20.0W x 138.5H x 78.5L mm (0.8W x 5.5H x 3.0L")
Weight	270.0 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	100Hz
Pulse time	Starting at 2 ms
Input air pressure	3.0–8.0 bar (44–116 psi)
Fluid body	303 stainless steel
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.

## 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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