

Controlled, consistent coatings and bonding in a miniature design.

**UV-cure and light-cure adhesives   resins   solvents   UV coatings**



The 702V-SS mini-diaphragm dispense valve is designed for drip-free coatings and consistent shot-to-shot bonding of UV-cure adhesives and other low-to-medium viscosity fluids, especially where valve mounting space is at a premium.

At 60% smaller and 70% lighter than other dispense valves, the 702V-SS mounts easily and can be positioned close to the production parts. With its lightweight design, the valve is also easy to move, which means less maintenance and wear on semi-automated and automated machine robotic arms.



## Features

- Consistent shot-to-shot performance
- Quick, clean cutoff eliminates drips
- **Low maintenance for millions of cycles**
- Tamper resist stroke adjustment
- Unique design eliminates trapped air and bubbles
- \* Available with PTFE diaphragm for autoclaving processes

**Performance  
Guarantee**

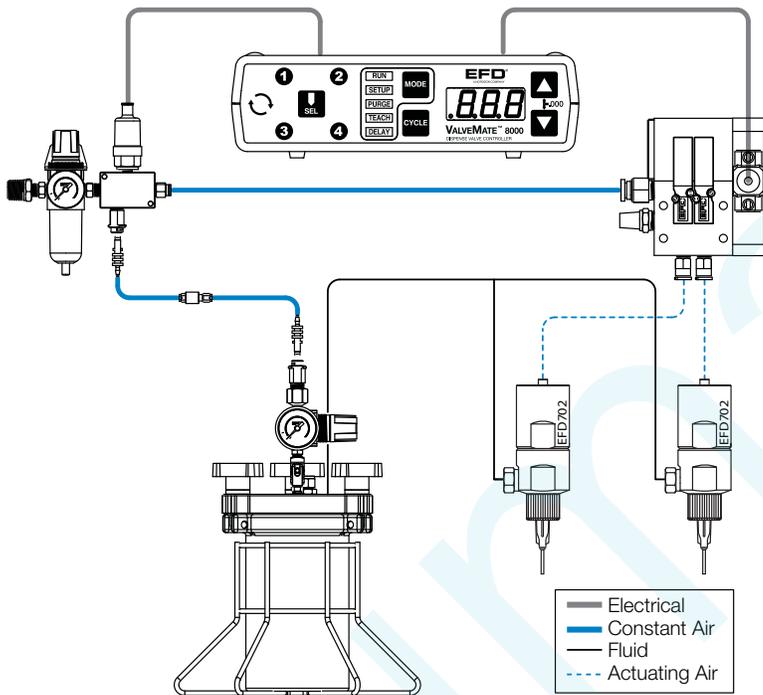
*"The valve start/stop performance is very good; no droplets formed. The size is much smaller, a particular advantage for the dispense arm robot." — EFD OEM customer*

# Mini-diaphragm valve systems



The complete system includes the 702V-SS dispense valve, Nordson EFD ValveMate™ 8000 controller, fluid reservoir and dispense tip.

Expert technical assistance and high quality standards ensure productive, trouble-free performance. Nordson EFD offers a full line of reliable dispensing systems to meet your specific application requirements.



## 702V-SS Valve

The dispense valve incorporates an inert polymer diaphragm that isolates the fluid from the valve actuating cylinder and provides very fine flow control for all low to medium viscosity fluids. The unique design provides quick valve ON/OFF and the ability to rapidly obtain maximum flow rates.

Amount dispensed depends on valve open time, fluid pressure, fluid viscosity, stroke adjustment and tip size.

**Size:** 2.50" x 0.75" diameter (63.5 mm x 19.1 mm)

**Weight (less fittings):** 1.74 oz (49.3 grams)

**Actuating air pressure required:** 70 to 90 psi (4.8 to 6.2 bar)

**Maximum fluid pressure:** 70 psi (4.8 bar)

**Fluid inlet thread:** M5

**Mounting:** Adjustable mounting block (specify P/N 7002VM)

**Cycle rate:** Exceeds 500 per minute

**Air cylinder body:** Type 303 stainless steel

**Fluid chamber:** Type 303 stainless steel

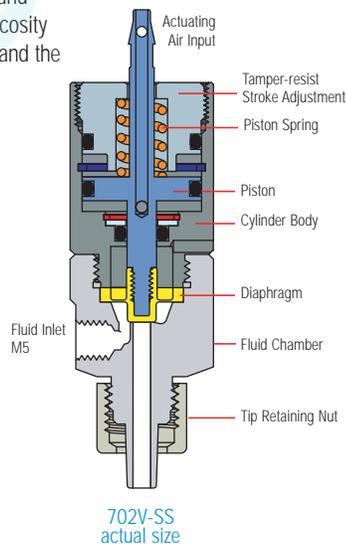
**Piston:** Type 303 stainless steel

**Diaphragm:** UHMW\* polyethylene or PTFE Teflon®, FDA approved

**Tip retaining nut:** Aluminum

All stainless steel parts are passivated.

\*Ultra High Molecular Weight polyethylene



## ValveMate 8000 Controller

Valve open time is the primary control of deposit size. The ValveMate controller puts push-button adjustment of valve open time where it needs to be — at the valve.

- Multi-valve control- up to (4) valves
- Maximum machine efficiency
- Increased production output
- Easy deposit size control
- On-the-fly adjustability
- Interfaces with Programmable Logic Controller (PLC)

## Automation: XYZ & XYZR Robot Dispensing Systems

Nordson EFD offers a wide selection of XYZ and XYZR robot systems that are fully compatible with ValveMate valve controller systems. Consistent, accurate, repeatable and complex dispensing applications can be easily performed with Nordson EFD robots, with working envelopes that range from 200 x 200 x 50mm to 510 x 510 x 100mm. Scara robot systems are also available for larger, heavier products or inline dispensing applications.

## Fluid Reservoirs

Nordson EFD reservoirs are supplied with precision, constant-bleed regulators to ensure consistent fluid pressure to the valve.

Tank reservoirs are available in 1.0, 5.0 and 19.0 liter capacities.

Cartridge sizes range from 2.5 to 32 ounces.

## Dispense Tips

The correct tip selection is very important to achieve proper performance of dispense valves.

In addition to its standard range of general purpose stainless steel tips, Nordson EFD offers special PTFE-coated stainless steel tips that provide a clean cutoff to prevent wicking and drips.

Contact Nordson EFD to order a supply.

\*PolyTetraFluoroEthylene



Flumasys s.r.o.  
info@flumasys.com