

# Compact diaphragm valve for fine flow control.

activators  
anaerobics  
cyanoacrylates  
fluxes  
solvents  
uv-cure &  
light-cure  
adhesives

**EFD**<sup>®</sup>  
A NORDSON COMPANY



Electronic pdf files of EFD manuals are also available at [www.efd-inc.com/manuals.html](http://www.efd-inc.com/manuals.html)

*"After 100 million cycles, we took the 752V-UH apart to check it. No repairs or parts needed. Reassembled and had it back in operation in about 5 minutes."*

*Remington Arms*

The 752V Series dispense valve systems accurately control the application of most low to medium viscosity fluids. The unique seal-less design incorporates an inert polymer diaphragm that isolates the actuator from the valve.

Valve open time can be as short as 15 milliseconds. The adjustable open/close stroke 0.13 to 0.64 mm (0.005" to 0.025") means very fast response and positive shutoff.

Model 752V-UHSS with UHMW\* polymer wetted parts is used for dispensing solvents, cyanoacrylates, anaerobics and fluxes.

A light blocking acetal valve chamber on the 752V-SS provides consistent, bubble-free dispensing of UV-cure polymers.

\*Ultra High Molecular Weight polyethylene



## Features

- Compact size and weight
- Adjustable fluid flow control
- **Positive shutoff, no seals**
- Easy cleaning
- FDA-compliant wetted parts
- Diaphragm life exceeds 100 million cycles
- Cycle rate exceeds 500/minute
- Low-maintenance design

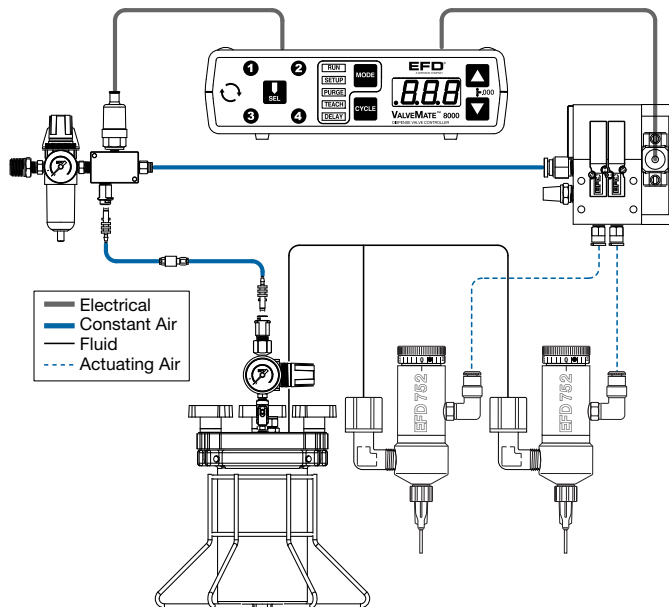
[www.efd-inc.com](http://www.efd-inc.com) [info@efd-inc.com](mailto:info@efd-inc.com) fax 401-431-0237 USA 800-556-3484

Sales and service of EFD<sup>®</sup> dispensing systems are available worldwide.

# Diaphragm valve systems

The complete system includes the 752V Series valve, ValveMate™ 8000 controller, the fluid reservoir and dispense tip.

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



## 752V Series Valves

The 752V Series valves are used with ValveMate 8000 controllers or an Ultra® TT automation system for precise, repeatable outputs of low to medium viscosity fluids.

The 752V Series wetted components are inert plastics and use the same actuating assembly and diaphragm. Each valve can be calibrated with the stroke reference knob for process control.

The amount dispensed depends on valve open time, fluid pressure, fluid viscosity, flow adjustment and tip size.

<b>752V-UHSS</b>	<b>Size:</b> 79.5 mm x 26.9 mm diameter (3.13" x 1.06")
	<b>Weight:</b> 173.6 grams (6.12 oz)
<b>752V-SS</b>	<b>Size:</b> 79.5 mm x 26.9 mm diameter (3.13" x 1.06")
	<b>Weight:</b> 181.4 grams (6.4 oz)
<b>752V</b>	<b>Size:</b> 79.5 mm x 26.9 mm diameter (3.13" x 1.06")
	<b>Weight:</b> 105 grams (3.7 oz)

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

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

**Fluid inlet thread:** 1/8 NPT female

**Fluid outlet thread:** 1/4-28 UNF

**Mounting:** (1) 10-32 UNF tapped hole

**Cycle rate:** Exceeds 500 per minute

**Air cylinder body:** 752V-UHSS: Type 303 stainless steel  
752V-SS: Type 303 stainless steel  
752V: Hard-coated aluminum

**Fluid body:** UHMW\* polyethylene, FDA approved

**Fluid body options:** Acetal, 303 stainless steel, Teflon®

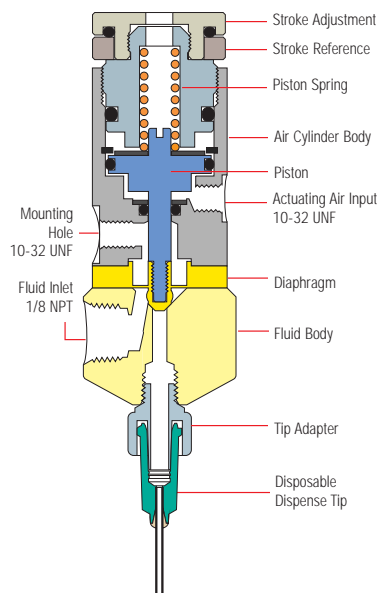
**Piston and piston rod:** Type 303 stainless steel

**Tip adapter:** Polypropylene

**Diaphragm:** UHMW\* polyethylene, FDA approved

**Diaphragm option:** Teflon®

**Wetted parts:** Fluid body, diaphragm, tip adapter



752V-UHSS  
75% actual size

## 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
- Partner to Programmable Logic Controller (PLC)
- Easy deposit size control
- Increased production output
- End user convenience
- On-the-fly adjustability
- Maximum machine efficiency

## Optional: XYZ Dispensing System

The Ultra TT xyz dispensing system incorporates all functions of the ValveMate controller. Compact 3-axis tabletop system offers consistent deposit repeatability. Work area: 325 x 325 x 100 mm or 525 x 525 x 100 mm.

## Fluid Reservoirs

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 (75cc to 950cc).

Note: The 1.0 liter tank accepts a 1 lb. bottle of cyanoacrylate.

## Dispense Tips

Tip selection is critical to achieve optimum valve performance. 752V Series valves are packaged with an Ultra dispensing tip kit for maximum fluid control. The kit includes smooth-flow tapered tips in sizes from 14 to 25 gauge, precision stainless steel tips in sizes from 14 to 21 gauge, and tip caps.



For EFD sales and service in over 30 countries, contact EFD or go to [www.efd-inc.com/contact](http://www.efd-inc.com/contact)

**EFD, Inc.**

East Providence, RI USA

USA & Canada: 800-556-3484; +1-401-434-1680

[info@efd-inc.com](mailto:info@efd-inc.com)

[www.efd-inc.com](http://www.efd-inc.com)

**EFD International Inc.**

Dunstable, Bedfordshire, UK

0800 585733 or +44 (0) 1582 666334

Ireland 00800 8272 9444

[europa@efd-inc.com](mailto:europa@efd-inc.com)

[www.efd-inc.com](http://www.efd-inc.com)

**EFD, Inc., Asia**

China: +86 (21) 5854 2345

[china@efd-inc.com](mailto:china@efd-inc.com)

[www.efd-inc.com/cn](http://www.efd-inc.com/cn)

Singapore: +65 6796 9630

[sin-mal@efd-inc.com](mailto:sin-mal@efd-inc.com)

All stainless steel parts are passivated.

\*Ultra High Molecular Weight polyethylene

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