

# 752V Series Diaphragm Valve with BackPack™ Valve Actuator

The 752 Series diaphragm valve is ideal for dispensing controlled amounts of most low-to-medium viscosity fluids. Chemically inert wetted components make this general-purpose valve ideal for use with cyanoacrylates, threadlockers and other reactive fluids.

The BackPack Valve Actuator mounted on the actuating air cylinder maintains constant pressure at the actuating air inlet, for faster response time without the risk of process variations due to a fluctuating plant air supply or different air line lengths. In addition, the BackPack utilizes advanced miniature solenoid technology that makes it possible to achieve valve actuation speeds as short as 5-6 milliseconds, and cycle rates as high as 800 per minute.

The BackPack actuator is made of lightweight materials for easy end-of-arm installation, and features a compact, low-profile design that facilitates center-to-center mounting. It is available preinstalled on new valves, and can also be ordered separately to retrofit existing valves.

## Features

- High-speed cycle capability – cycle rate exceeds 60 -80 hertz
- Actuation speed as low as 5-6 milliseconds
- State-of-the-art, fast-acting miniature solenoid technology
- Low-profile, compact design
- Light weight for easy end-of-arm installation

## Benefits

- Smaller deposit size capability due to faster valve actuation
- Minimizes process variation, for better dot-to-dot consistency
- High-speed cycling can create dot-to-dot “stitching” that flows together to form continuous lines



Electrical input:	24 vdc, 4 Watts
Air input:	70-90 psi (4.8-6.2 bar)
Min. actuation time:	5 milliseconds
Max. actuation time:	Continuous ON
Cycling frequency:	60-80 hertz
*BackPack Material:	
Housing:	Anodized aluminum
Mounting bolt:	303SS
O-rings:	Buna-n
*BackPack Dimensions:	
	0.874" deep x 1.05" high x 0.95" wide (22.20mm x 26.7mm x 24.10mm)
Weight:	
BackPack only:	52.635 grams (1.85 oz).
752V-SS-BP:	234.0 grams (8.25 oz)
752V-UHSS-BP:	226.2 grams (7.9 oz)

\*Note: Refer to 752V Installation Guide for complete valve specifications.



# 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 with BackPack Valve Actuator

The 752V Series valves are used with ValveMate 8000 controllers or EFD Robot automation systems 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.

## 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

## 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 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

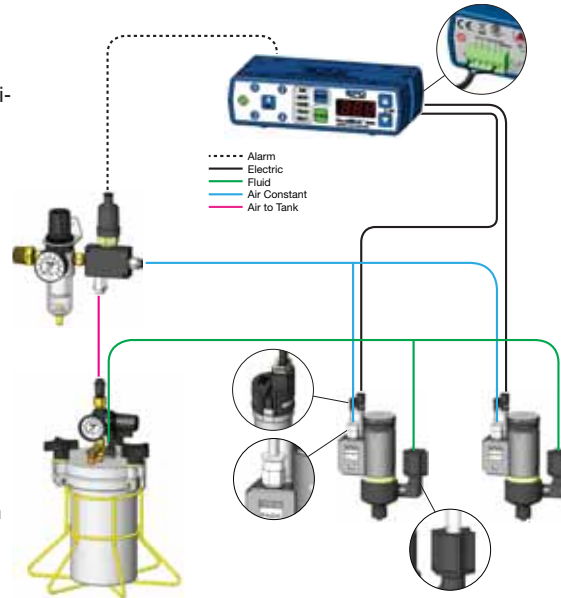
EFD reservoirs are supplied with precision, constant-bleed regulators to ensure consistent fluid pressure to the valve.

Tank reservoirs are available in 1.0, 5.0 and 19.0 liter capacities. Optimum™ Retainer Systems and Cartridges are available 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 Nordson EFD LLC sales and service in over 30 countries, contact Nordson EFD or go to [www.nordsonefd.com](http://www.nordsonefd.com)

East Providence, RI USA  
USA & Canada: 800-556-3484; +1-401-431-7000  
[info@nordsonefd.com](mailto:info@nordsonefd.com) [www.nordsonefd.com](http://www.nordsonefd.com)

Dunstable, Bedfordshire, UK  
0800 585733; +44 (0) 1582 666334  
Ireland 00800 8272 9444  
[europa@nordsonefd.com](mailto:europa@nordsonefd.com) [www.nordsonefd.com](http://www.nordsonefd.com)

China: +86 (21) 3866 9006  
[china@nordsonefd.com](mailto:china@nordsonefd.com) [www.nordsonefd.com](http://www.nordsonefd.com)

Singapore: +65 6796 9522  
[sin-mal@nordsonefd.com](mailto:sin-mal@nordsonefd.com)

The Wave Design is a trademark of Nordson Corporation.  
©2010 Nordson Corporation v061810