

# Compact diaphragm valve for aseptic and sterile fluid applications.

saline solutions   monomers   pill coating   vial filling   food processing



The 754V-SS aseptic dispense valve system accurately controls the application of most low to medium viscosity fluids. The seal-less design incorporates an inert PTFE diaphragm that isolates the actuator from the valve.

The unique design of the 754V-SS provides a fluid flow path free of any entrapment areas, critical for sterile and aseptic fluid applications. Wetted parts are 316L stainless steel and PTFE, which are suitable for CIP (clean in place) and SIP (sterilize in place) processes.

Flow volumes range from 0.5 microliter deposits to a continuous flow rate of 14.0 ml/s (H<sub>2</sub>O at 30psi pressure). The valve closes after each cycle with a fast, clean cut-off that eliminates drips.

## Benefits

- Accurate, consistent shot size
- Easy to clean or sterilize in place
- Low maintenance
- Clean cutoff eliminates drips
- Simple to set up and operate

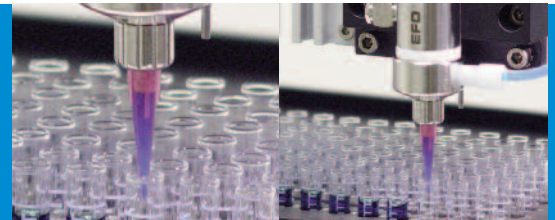
## Features

- Compact size and weight
- Adjustable fluid flow control
- Positive shutoff, no seals
- Tamper-resistant design
- FDA-compliant wetted parts
- Diaphragm life exceeds 1x10<sup>8</sup>
- Stainless steel cylinder body
- Exceeds 500 cycles per minute

Electronic pdf files of Nordson EFD manuals are also available at [www.nordsonefd.com](http://www.nordsonefd.com)

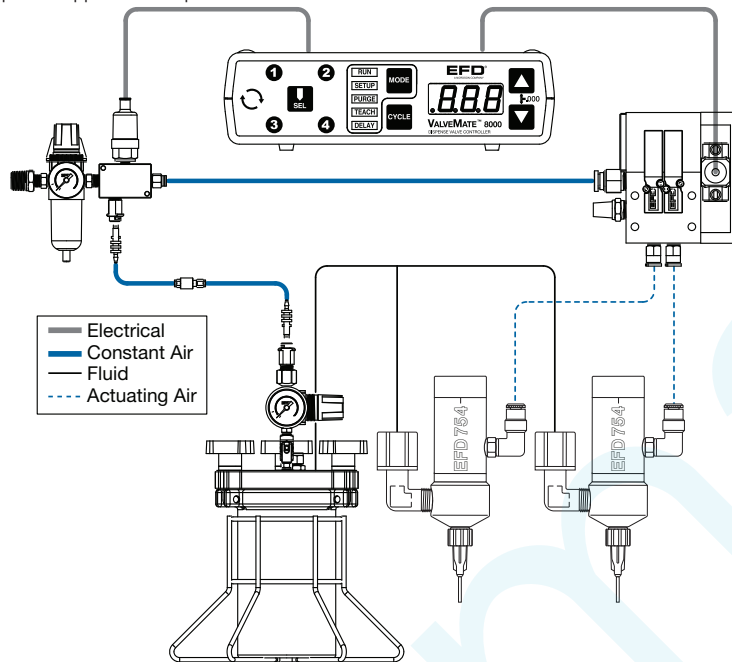
To order, specify EFD part# 754V-SS

# Aseptic valve systems



The complete system includes the 754V-SS valve, ValveMate™ 8000 controller, the 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.



## 754V-SS Valve

The 754V-SS valve is used with ValveMate 8000 controllers or an Nordson EFD TT automation system for precise, repeatable outputs of low to medium viscosity fluids.

The 754V-SS wetted components are made of stainless steel and PTFE to conform to biopharmaceutical regulations. 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.

**Size:** 77.5 mm x 26.9 mm diameter (3.05" x 1.06")

**Weight:** 193.3 g (6.82 oz)

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

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

**Fluid inlet thread:** 5/16-24 UNF

**Fluid outlet thread:** Male luer lock

**Mounting:** None

**Cycle rate:** Exceeds 500 per minute

**Air cylinder body:** Type 316L stainless steel

**Fluid body:** Type 316L stainless steel

**Piston and piston rod:** Type 316L stainless steel

**Tip adapter:** Integrated, threadless

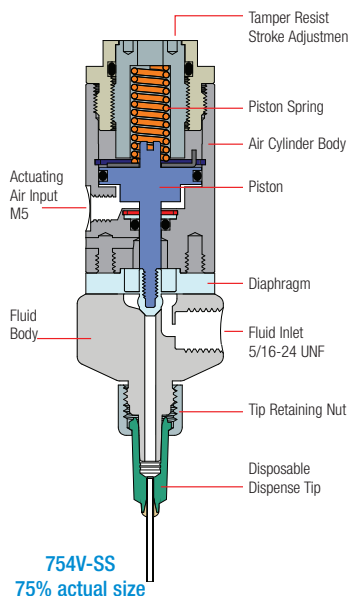
**Diaphragm:** PTFE

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

**Maximum fluid operating temperature:** 43°C (110°F)

**Maximum temperature–Autoclaving:** 260°C (500°F)

All stainless steel parts are passivated.



## 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

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 (75cc to 950cc).

## Dispense Tips

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

The 754V-SS valves are packaged with a dispensing kit for maximum flow control. The kit includes smooth-flow tapered tips in sizes ranging from 14 to 25 gauge, precision stainless steel tips in sizes ranging from 14 to 21 gauge, and sealing tip caps.

