

# Compact diaphragm valve for aseptic and sterile fluid applications.

saline solutions  
monomers  
pill coating  
vial filling  
food processing

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



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 Teflon<sup>®</sup> 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 Teflon, 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

Performance  
Guarantee

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

To order, specify EFD part# 754V-SS

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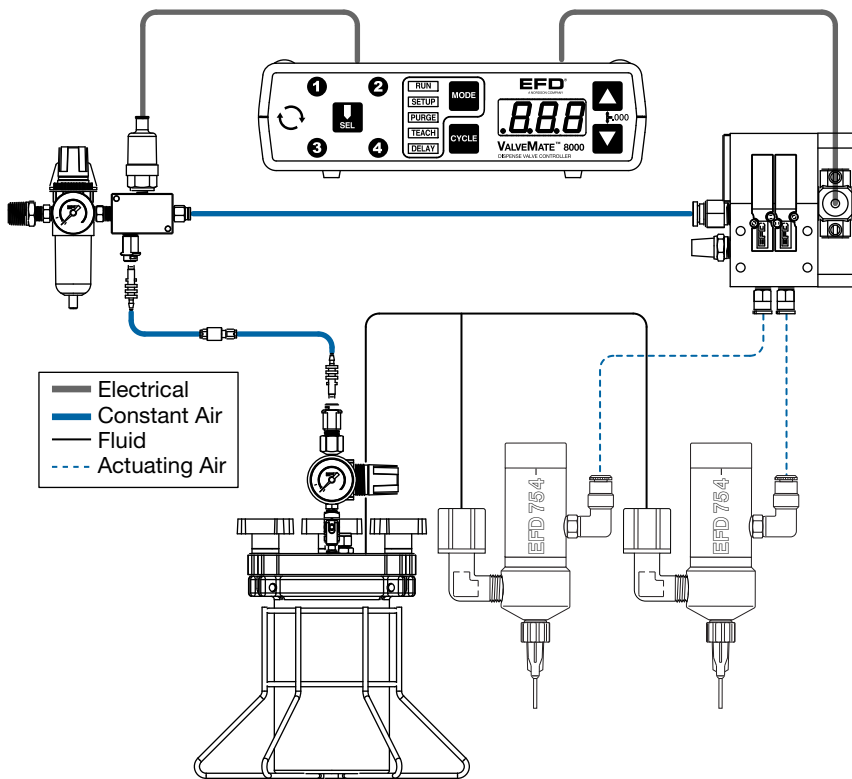
Sales and service of EFD<sup>®</sup> dispensing systems are available worldwide.

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# 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. 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 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 Teflon 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

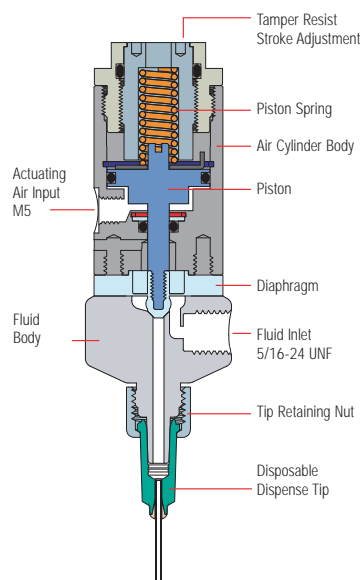
**Fluid body:** Type 316L stainless steel

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

**Tip adapter:** Integrated, threadless

**Diaphragm:** Teflon

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



754V-SS  
 75% actual size

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

## Optional: XYZ Dispensing System

The TT xyz dispensing system incorporates all functions of the ValveMate. 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).

## 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.



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

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