

# 702M-SS Series Mini-diaphragm Valve

Controlled, consistent coatings and bonding for optical media.



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The 702M-SS mini-diaphragm dispense valve is designed for drip-free coating and consistent shot-to-shot bonding with low-to-medium viscosity fluids in the optical media industry.

Used in combination with Nordson EFD PTFE\*-coated dispense tips, the 702M-SS valve significantly reduces reject rates and applies consistent, precise deposits of dye, UV lacquers and UV adhesives.

At 60% smaller and 70% lighter than other dispense valves, the 702M-SS mounts above the disc and is easy to move, which means less maintenance and wear on the disc machine's robotic arm.

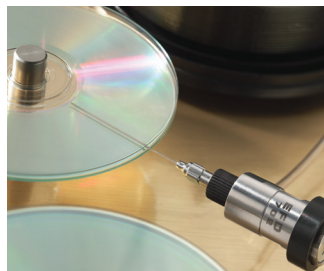
\*PolyTetraFluoroEthylene

## Features and Benefits

- Consistent shot-to-shot performance
- Quick, clean cutoff eliminates drips and stops crystallized contamination
- Low maintenance for millions of cycles
- Tamper-resist stroke adjustment
- Unique design eliminates trapped air and bubbles

*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 optical media OEM customer



Part #	Description
7020679	702M-SS Valve; For optical media applications



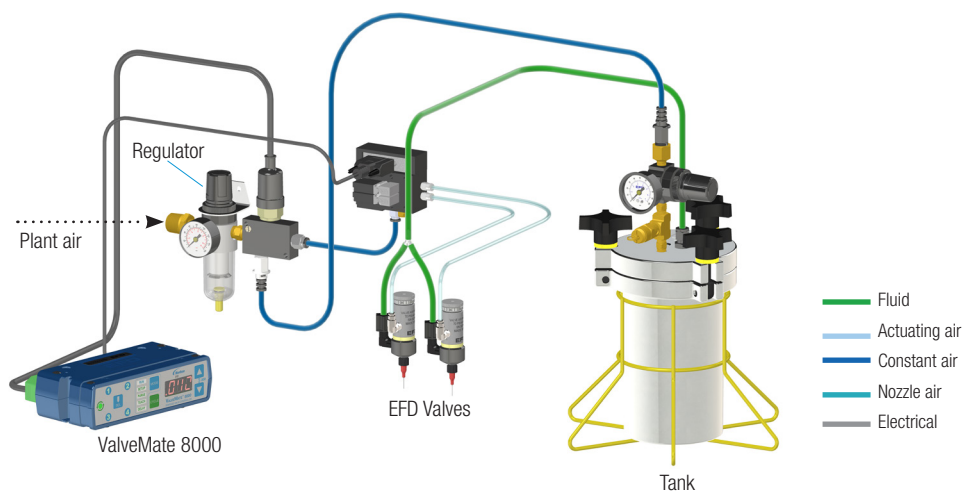
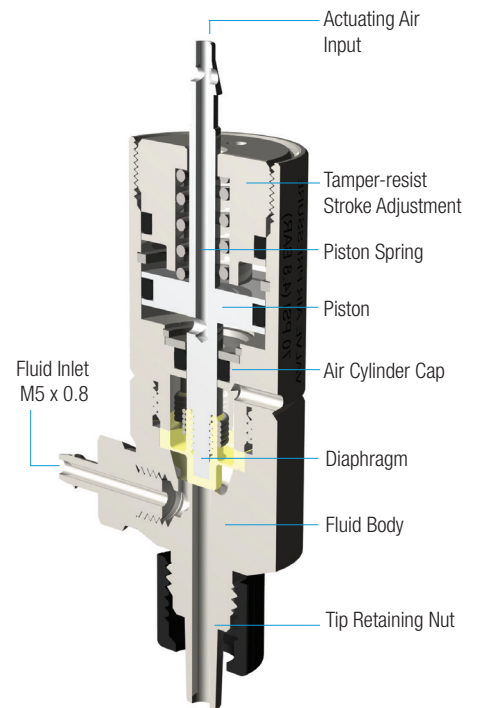
more info



## Specifications

Item	Specification
Size	63.5 <sub>L</sub> x 19.1 <sub>DIA</sub> mm (2.50 <sub>L</sub> x 0.75 <sub>DIA</sub> " )
Weight (less fittings)	49.3 g (1.7 oz)
Actuating air pressure required	4.8–6.2 bar (70–90 psi)
Maximum fluid pressure	4.8 bar (70 psi)
Fluid inlet	M5 x 0.8
Mounting	Adjustable mounting block (#7020507)
Cycle rate	Exceeds 500 per minute
Air cylinder body	303 stainless steel
Fluid body	303 stainless steel
Piston	303 stainless steel
Diaphragm	UHMW* polyethylene or PTFE
Tip retaining nut	Aluminum
Maximum operating emperature	43° C (110° F)
Warranty	1 year, limited

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



## Select Your Controller

See the Valve Selection Guide for the controllers compatible with this valve  
– [www.nordsonefd.com/ValveGuide](http://www.nordsonefd.com/ValveGuide).

## Automated Dispensing Systems

Nordson EFD automated dispensing systems deliver market-leading repeatability and accuracy in fluid placement and positioning. Specialized dispensing software simplifies setup and programming. Optimize dispensing results with features such as laser height sensing and smart vision CCD cameras.

## 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).

## PTFE-Coated Tips

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

EFD offers special PTFE-coated stainless steel tips as part of the 702M-SS dispense system. 702M-SS valves are packaged with a sample of these tips, which provide a clean cutoff and prevent wicking to eliminate drips. These tips are integral to the 702M-SS valve performance.

## Request a Process Evaluation

Contact Nordson EFD to configure a precision dispense system that meets your specific needs, with:

- A complimentary process evaluation by experienced fluid dispensing experts
- Samples processed for customer evaluation and approval prior to purchase



For Nordson EFD sales and service in over 40 countries, contact Nordson EFD or go to [www.nordsonefd.com](http://www.nordsonefd.com).

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