

# Series 450 Autovalve

With meter, mix and dispense systems, the pneumatic Series 450 Autovalve is a durable and reliable valve. In addition, the seals can be adjusted without disassembly of the valve body.

The pneumatic Series 450 Autovalve is similar to the Series 400 Autovalve, except for the shut-off pistons which ensure good control of dot or shot volume. After each shot, the dual pistons retract and "snuff back" material from the end of the mixing nozzle. This feature helps eliminate "after drool." This valve includes hard-coated and lubricated pistons. It can be used either as a stationary head or hand-held unit.



## Features

- **Easy to Clean:** If cross contamination occurs, the manifold can be removed and cleaned without disassembly of the valve body
- **Optional Stainless Steel Valve:** Recommended for corrosive acrylics or epoxies
- **Flush Valve Manifold:** For cleaning the mixing nozzle with air or solvent. A check valve is threaded into the side of the manifold
- **Lubricated and Hard Coated Pistons:** Lubricated with Nordson EFD Autogrease for moisture sensitive adhesives and hard-coated to resist abrasive adhesives
- **Optional Polytuff, PTFE, Viton® and EP Seals:** For varying chemical formulations and abrasive conditions
- **Optional Night Cap Ratio Check Cap:** Available for 1:1 ratio manifold

## Specification

- **Weight (Al Valve and Manifold):** 1.6 lbs (0.7 kg)
- **Weight (SS Valve and Manifold):** 2.5 lbs (1.1 kg)
- **Pressure Rating:** 3,500 psi (240 bar)

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## Series 450 Snuff Back Autovalves and Manifolds

Part #	Components	Ratio	Flow Rate
7702201 (450-200HAGT)	Alum. Valve, Single Air Cylinder w/Snuff Back, GT Seals	–	–
7702209 (450-200HAPV)	Alum. Valve, Single Air Cylinder w/Snuff Back, PV Seals	–	–
7702443 (460-200HAGT)	Stainless Steel Valve, Single Air Cylinder w/Snuff Back, GT Seals	–	–
7702221 (450-M160-A)	Aluminum Manifold	1:1	Low Flow
7702222 (450-M160-B)	Aluminum Manifold with Air/Solvent Flush Valve	1:1	Low Flow
7702224 (450-M160-D)	Aluminum Manifold	Wide	Low Flow
7702226 (450-M160-E)	Aluminum Manifold with Air/Solvent Flush Valve	Wide	Low Flow
7702451 (460-M160-A)	Stainless Steel Manifold	1:1	Low Flow
7702452 (460-M160-B)	Stainless Steel Manifold with Air/Solvent Flush Valve	1:1	Low Flow
7702453 (460-M160-D)	Stainless Steel Manifold	Wide	Low Flow

## Carbon Steel Pipe Adapters

Part #	Description
7702407 (451-F2EFNPT-75E)	90° Elbow w/1/4" FNPS
7702414 (451-F2EMNPT-75E)	90° Elbow w/1/4" MNPT
7702416 (451-F2SFNPT-75E)	Straight Adapter w/1/4" FNPS
7702419 (451-F2SMNPT-75E)	Straight Adapter w/1/4" MNPT
7702420 (451-F3EFNPT-75E)	90° Elbow w/3/8" FNPS
7702424 (451-F3EMNPT-75E)	90° Elbow w/3/8" MNPT
7702425 (451-F3SFNPT-75E)	Straight Adapter w/3/8" FNPS
7702428 (451-F3SMNPT-75E)	Straight Adapter w/3/8" MNPT

## Swivel Check Valve Adapters

Part #	Description
7702407 (451-F2EFNPT-97C)	SS w/Alum. Collar, 1/4" FNPT
7702409 (451-F2EFNPT-98C)	All SS, 1/4" FNPT

# Series 450 Autovalve

## 316 Stainless Steel 37° JIC Adapters

Part #	Description
7702413 (451-F2EJIC-98E)	90° Elbow w/1/4" Male JIC
7702418 (451-F2SJIC-98E)	Straight Adapter w/1/4" Male JIC
7702423 (451-F3EJIC-98E)	90° Elbow w/3/8" Male JIC
7702427 (451-F3SJIC-98E)	Straight Adapter w/3/8" Male JIC

## Carbon Steel 37° JIC Adapters

Part #	Description
7702411 (451-F2EJIC-75E)	90° Elbow w/1/4" Male JIC
7702417 (451-F2SJIC-75E)	Straight Adapter w/1/4" Male JIC
7702421 (451-F3EJIC-75E)	90° Elbow w/3/8" Male JIC
7702426 (451-F3SJIC-75E)	Straight Adapter w/3/8" Male JIC

## Repair Kits

Part #	Description
7704092 (AV-RK-TFV)	2K Kit 4X0 Repair TFV
7704093 (AV-RK-TGT)	2K Kit 4X0 Repair TGT
7704094 (AV-RK-TGV)	2K Kit 4X0 Repair TGV
7704095 (AV-RK-TPV)	2K Kit 4X0 Repair TPV
7704096 (AV-RK-TTT)	2K Kit 4X0 Repair TTT

## Night Cap & Ratio Check Cap

Part #	Description
7701181 (165-Cap/01*)	Night Cap w/Retaining Nut
7701184 (165-RC/01*)	Ratio Check Cap w/Retaining Nut

\*These items are used in conjunction with the 1:1 ratio manifolds

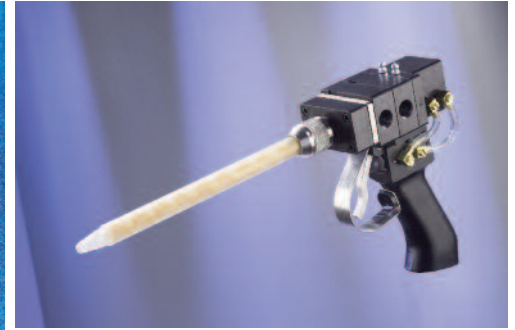
## Handles & Base

Part #	Components	Description
7701971 (400-MOUNT-E01)	Handle	Pistol Grip Handle w/Electric Momentary Switch (24V)
7701973 (400-MOUNT-E02)	Handle	Pistol Grip Handle w/Electric Push On/Off Switch (24V)
7701977 (400-MOUNT-H01)	Handle	Pistol Grip Handle w/Pneumatic Switch

# Series 450 Autovalve

## Ordering Guide

- Valve, manifold, and handle are ordered individually
- Optional pistol grip handles and swivel base are available
- For high back pressure conditions (i.e. over 1,000 psi/69 bar) order a double air cylinder
- Seal Designations: T=PTFE, P=Polyurethane, V=Viton®, G=Polytuff



## Accessories

### ■ Handles/Mounts

Nordson EFD offers electric or pneumatic handles for actuating the air cylinder of the valve. If using an electric handle, a solenoid from an outside vendor is required. EFD also offers a stationary swivel base for applications where mobility is not required.

### ■ Static Mixers

Mixer selection is critical when it comes to curing two-component adhesives and sealants. Nordson EFD offers a wide range of static mixers with different diameters, lengths, geometries and orifices to meet many different applications.

### ■ Retaining Nuts and Jackets

Retaining nuts and jackets are available for all mixers. Nordson EFD recommends using a jacket when the working pressure inside the mixer is greater than 150 psi (10 bar).

### ■ Hose Adapters

Elbow adapters are available to connect the material lines to the valve.

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

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