

Series 400HF Autovalve

High Flow Valve



The 400HF valve provides flow rates that are 15-30% greater than the standard 400 valve configuration, without compromising accuracy or consistency. The large $\frac{3}{4}$ " material inlet ports permit flow rates of 4-5 gallons per minute, depending on pump capability and material viscosity.

Features

- Dispenses two-component adhesives and sealants
- Dispenses low- to high-viscosity urethanes, epoxies and silicones
- Can be mounted for beads or timed shots; optional handle is available for handheld applications
- Provides an ON-OFF function. The metering of the adhesives in the proper ratio of A:B is controlled by the metering pumps.
- Flow rates of 4-5 gallons/minute, depending on pump and material viscosity
- Materials remain separate until they enter the mixer
- Available in aluminum or stainless steel configurations
- Manual, robotic or stationary operation

Specifications

• Valve

Size: 3.3" x 2.5" x 2.3" (132 mm x 63.5 mm x 58.4 mm)

Body Material: 6061-T6 Aluminum or 303 Stainless Steel

O-ring Options*: Viton®, PTFE, Ethylene-Propylene (E-P)

Lip Seal Options*: Viton, Polyurethane (PU), PTFE, Polytuff, Ethylene-Propylene (E-P)

*Repair kits containing a complete set of lip seals and O-rings are available.

• Manifold

Size: 1.9" x 2.5" x 1.5" (48.3 mm x 63.5 mm x 38.1 mm)

Material: 6061-T6 Aluminum or 303 Stainless Steel

Options: 1:1 Ratio (with or without solvent port)

Wide Ratio (with or without solvent port)

Outlet Thread Size Options: 7/8"-14 (for standard bell mixers);

1 5/16"-12 (for oversized bell mixers)

• Weight

Aluminum Valve and Manifold: 1.6 lb (0.7 kg)

Stainless Steel Valve and Manifold: 2.5 lb (1.1 kg)

• Operating Parameters

Min. Operating Pressure: 80 psi (5.5 bar)

Max. Fluid Pressure: 3500 psi (240 bar)

Electric Handle Mount Switch: 24V

Part #	Description
7704105	Alum. Valve, Single Air Cylinder, TGT Seals
7701924	Alum. Valve, Single Air Cylinder, TPV Seals
7704019	Stainless Steel Valve, Single Air Cylinder TPV Seals

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



more info



Accessories

Manifolds

Part #	Component	Ratio	Flow Rate
7701954	Aluminum Manifold with Air/Solvent Flush Valve	1:1	High Flow

Fluid Inlet Adapter

Elbow adapter is available to connect the material lines to the valve.

Part #	Description
7702429	90° Elbow w/1/2" Male FNPT

Repair Kit

Part #	Description
7704013	2K Kit 400HF Repair TPV

Metal Jackets

Metal Jackets are available for all mixers. EFD recommends using it when the working pressure inside the mixer is greater than 150 psi (10 bar).

Part #	Description
7701225	CS Nut / SS Jacket
7701226	CS Nut / SS Jacket
7701227	CS Nut / SS Jacket

Pistol Grip Handles

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.

Part #	Description
7701971	w/Electric Momentary Switch (24V)
7701973	w/Electric Push On/Off Switch (24V)
7701977	w/Pneumatic Switch

Retaining Nut

Retaining nut is available for all mixers.

Part #	Description
7026515	Carbon Steel

Static Mixers

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

Part #	Element Diameter	# Mixing Elements
7701057	0.784	16
7701059	0.784	23
7701063	0.784	32
7701066	0.784	39
7701067	0.784	48
7362603	0.784	64



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