

iPolymer | DI Water Valve

DI Water Valve

iPolymer DI Water Valves are perfect 2-way valves for wet benches and chemical process facilities where ultrapure water is required. Wetted Path is free of lubricants, elastomers, and springs.

DI Valve materials of construction include three options for the Body, Piston and Cap Assembly: PVC, Polypropylene or PVDF. For the highest level of chemical inertness and overall fluid handling performance all three configurations include 100% Virgin PTFE for the Bellows and Backing Plate construction.

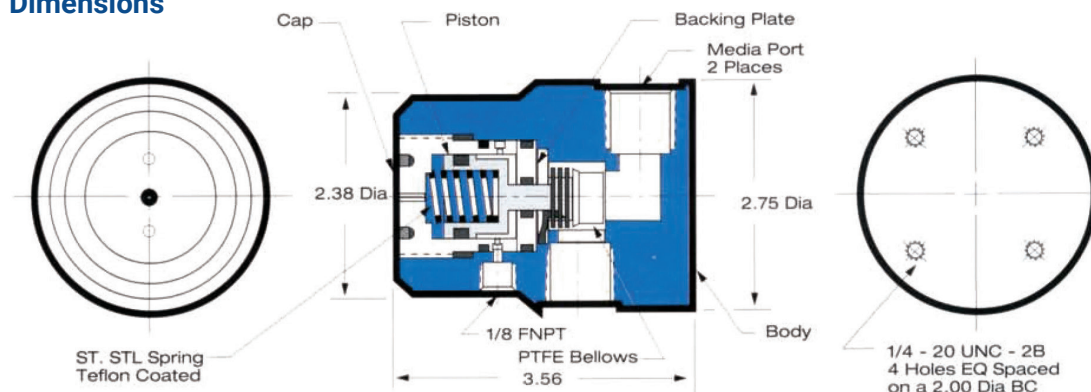
O-Ring Seal options include EP. All DI Valve come standard with high performance Stainless Steel actuation springs.



Specifications

Model	PVC	Polypro	PVDF
Valve Type	2-Way NO or NC	2-Way NO or NC	2-Way NO or NC
Port & Orifices Available	3/8", 1/2", 3/4" & 1"	3/8", 1/2", 3/4" & 1"	3/8", 1/2", 3/4" & 1"
Fluid Max Pressure (psi) @ 70°F	75	75	75
Media Backpressure (psi) @ 70°F	30	30	30
Fluid Temperature Range	32 - 140°F	32 - 160°F	32 - 212°F
Ambient Temperature Range	32 - 120°F	32 - 140°F	32 - 175°F
Actuation Pressure (psi)	40 - 80	40 - 80	40 - 80

Dimensions



Port & Orifice	Cv	Dim A	Dim B	Dim C
3/8"	2.1	2.75	3.56	2.38
1/2"	2.8	2.75	3.56	2.38
3/4"	7.5	4.00	5.91	3.25
1"	13.5	4.00	5.91	3.25

Ordering Format

DI - PVC - 66 P - C - RC
0 1 2 3 4 6

0. Valve Series

DI = DI Water Valves

1. Material of Construction

PVC = Polyvinyl Chloride

POL = Polypropylene

PVDF = Polyvinylidene Fluoride

2. Port & Orifice Size

66 = 3/8"

88 = 1/2"

1212 = 3/4"

1616 = 1"

3. End Connection

P = FNPT

4. Valve Configuration

C = Normally Closed

5. Optional Flow Path

(Only for NC Valves)

AB = Hand turn, Micro Adjust Knob

RC = Restricted Closed

DI valves are also known as

"MP" Multi-Purpose Valve.

Call for special configurations.

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Water Valve

iPolymer Water Valve is manufactured in Polypropylene. The valve has a spring return and is pneumatically actuated to open or close, depending upon the model. The valve is compact and comes with four tapped holes on the base for ease of mounting.

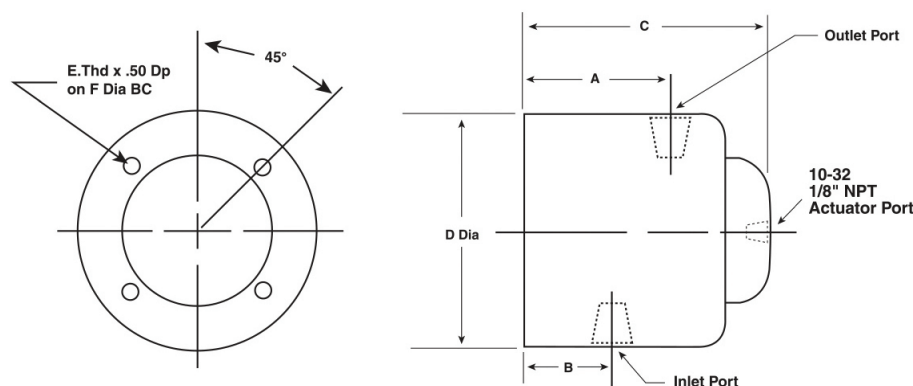
Applications

iPolymer Water Valve is primarily used for purified water, DI water, and controlled process tank applications. The Polypropylene configurations of this valve can be used for numerous mild chemical applications. These include rinsing, blending, and other pneumatically controlled process applications.

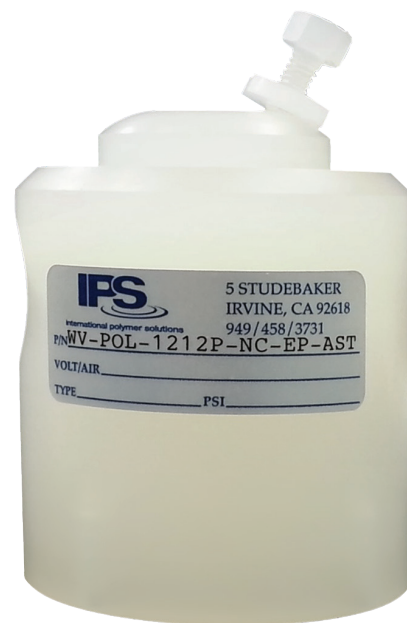
Specifications

Model (Orifice Size)	1/4"	1/2"	3/4"
Cv	0.8	2.8	7.5
Max Pressure Inlet (psi)	80	80	60
Max Media Temperature - Poly	140°F / 60°C	140°F / 60°C	140°F / 60°C
Max Media Temperature - PVDF	212°F / 100°C	212°F / 100°C	212°F / 100°C
Actuator Pressure Range	35 / 70	35 / 70	35 / 70

Dimensions



Model (Size)	A	B	C	D Dia	E Thd	F Dia
1/4"	1.52	1.00	2.44	2.25	1/4" - 20 UNC-2B	1.81
1/2"	1.69	.96	2.78	2.75	1/4" - 20 UNC-2B	2.00
3/4"	2.28	1.33	3.66	3.00	1/4" - 20 UNC-2B	2.50



Ordering Format

WV - POL - 44 P - NO - EP - AST
0 1 2 3 4 5 6

0. Valve Series

WV = Water Valves

1. Material of Construction

POL = Polypropylene

2. Port & Orifice Size

44 = 1/4"

88 = 1/2"

1212 = 3/4"

3. End Connection

P = FNPT

4. Valve Configuration

NC = Normally Closed

NO = Normally Open

5. O-Ring Type

EP = Ethylene Propylene

VT = FKM (Viton Eq.)

6. Optional Flow Path

AST = Adjustment Screw Top-side

ASB = Adjustment Screw Bottom-side

ATB = Both AST and ASB

AST = Reduce bacterial buildup with an Adjustment Screw Top-side. The adjustment screw, installed at the top of valve, prevents complete closure thereby allowing a controlled drip. Ideal for DI Water applications. Only available to "NO" configurations.

ASB = Create a metering effect with an Adjustment Screw Bottom-side. The adjustment screw, installed at the bottom of the valve, meters the orifice opening. Only available to "NC" configurations.

ATB = Combine both optional features into one valve (AST + ASB) with Adjustment Screws Top-side & Bottom-side for both controlled drip and orifice metering. Only available to "NC" configurations.