*i***Polymer** | Chemical Resistant Valves

Chemical Resistant Valves

Chemical Resistant (CR) Valves offer chemical and corrosion control through a complete fluoroplastic design and construction. All wetted surfaces are manufactured from virgin PTFE. Pneumatic Actuator, Base and Bands are constructed from PVC, Polypropylene or PVDF. The polymer components selected for CR Valve line are specifically suited for use with ultrapure water, deionized water, solvents, chemicals and liquid flowing bio-matter. Our PTFE Bellows-style valve stem and PTFE valve seat help ensure the valve self-flushes a wide variety of flowing media. Special custom configurations are available on request. These include: manifold valve assemblies with multiple ports and high ambient temperature pneumatic actuators.



Specifications

Size	1/4"	3/8"	1/2"	3/4"	1"
Cv	0.8	1.3	2.8	7.5	13.5
Flow Rate (GPM @ 60 psi)	4.6	6.3	10.7	23	42
Inlet Port Max. Pressure (psi)	60	60	60	60	60
Outlet Port Max. Pressure (psi)	60	50	50	30	20
Actuator Pressure (Min/Max)	40 / 60	40 / 60	40 / 60	50 / 70	50 / 70
Max. Media Temp. (PVDF)	240°F	240°F	240°F	240°F	240°F
Max. Ambient Temp.	140°F	140°F	140°F	140°F	140°F
Wetted Surfaces	PTFE	PTFE	PTFE	PTFE	PTFE
Actuator / Base / Bands	PVC, POL, PVDF				
Actuator Port (see diagram)	10-32 UNF	1/8"FNPT	1/8"FNPT	1/8"FNPT	1/8"FNPT
Inlet Port (in) (FNPT Std)	1/4"	3/8"	1/2"	3/4"	1"
Outlet Port (in)	1/4"	3/8"	1/2"	3/4"	1″

Pressure listed for Distribution Flow Configuration. Contact us for Selection Flow Configuration.

Ordering Format

$\underline{CR} - \underline{POL}_{1} - \underline{4W}_{2} \underline{8}_{3} \underline{P}_{4} - \underline{O}_{5} \underline{C}_{6} \underline{C}_{7}$

0. Valve Series

CR = FNPT CRT = Tube CRF = Flare

1. Actuator Material

PVC = Polyvinyl Chloride (ambient T = 140°F) POL = Polypropylene (ambient T = 160°F) PVDF = Polyvinylidene Fluoride (ambient T = 230°F)

2. Valve Configuration

2W = 2 Way 3W = 3 Way 4W = 4 Way

<u>3. Size</u>

4 = 1/4" 6 = 3/8" 8 = 1/2" 12 = 3/4" 16 = 1"

4. Outlet Port Connection

P = FNPT T = Tube

F = Flare

5. Port 1

C = Normally Closed O = Normally Open

6. Port 2

(Only for 2-way and 3-way config.) C = Normally Closed O = Normally Open

7. Port 3

(Only for 3-way config.) C = Normally Closed O = Normally Open

Contact us for 5-way to 14-way models.

Flow for distribution (One Inlet & Multiple Outlets) and flow for blending or selection (Multiple Inlets & One Outlet) available. Distribution flow is standard. Please specify at time of order.

Dimensions



1/4" CR models come complete with aluminum baseplate.

3/8" - 1" CR models come with reinforcing bands & baseplates that match the selected actuator material (PVC, POL or PVDF).

CR Valve is supplied standard with a single axial manifold FNPT style port.