CR4 Series Manual Valves, 1/4" Orifice, 2way, Toggle

For corrosive environments in wet etch and clean (WEC) applications

Smaller than most comparable valves, 1/4" CR4 Series valves are ideal for handling wet etch and clean process chemicals. These durable valves can handle temperatures up to 160°C (320°F) at 276 kPa (40 psig).

With no exposed metal hardware, the toggle valve is completely sealed and protected from harsh chemical environments. This all-PFA valve is available for high-purity chemical handling in line sizes 3/8" or smaller. A variety of connections including PrimeLock®, Flaretek®, FNPT, PureBond®, "SpaceSaver", and Super 300 Type Pillar® allow flexibility in your fluid design. And the compact, modular design enables manifold customization.

APPLICATIONS

- High-purity corrosive chemical handling
- All semiconductor WEC process chemicals
- Chemical line sizes 3/8" or smaller



Compact, toggle valve.

FEATURES & BENEFITS

Small footprint	Preserves valuable space on OEM equipment Provides increased reliability		
Valve diaphragms successfully tested to over 2.1 million cycles			
Standa lone mounting base	Enables valve installation and removal without tools		
Integral safety lock out device	Safeguards against accidental altering or tampering		
No exposed metal hardware	Keeps valve sealed and protected from harsh chemical environments		
Modular design	Enables manifold customization into your fluid delivery system		
Same footprint as Galetek® SG Series valves and Dymension® valve manifolds	Allows for easy retrofits or replacement		

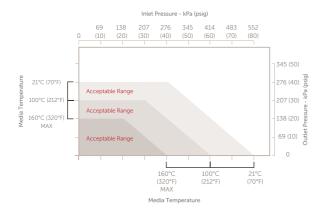


SPECIFICATIONS

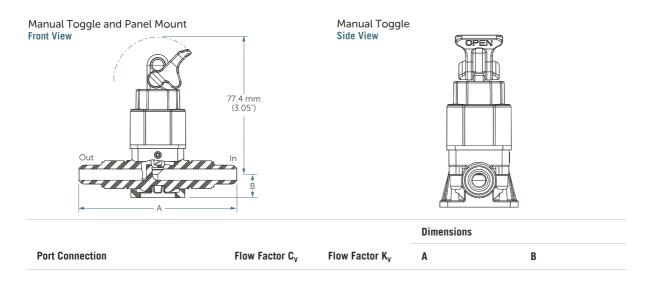
Materials	All wetted parts	PFA		
	Exterior actuator parts	PVDF, Viton®		
	Interior actuator parts	PVDF, SST, Viton		
	Mounting base	PVDF		
Operating Conditions*	Media pressure at	21°C (70°F)	Inlet - 913 mbar (27" Hg) vacuum to 552 kPa (80 psig)	
			Outlet- 913 mbar (27" Hg) vacuum to 276 kPa (40 psig)	
		160°C (320°F)	Inlet - 276 kPa (40 psig)	
			Outlet - 138 kPa (20 psig)	
	Temperature range	Ambient	23°C - 50°C (73°F - 122°F), ambient	
		Fluid	21°C - 160°C (70°F - 320°F), fluid	
Compliant	RoHs & WEE			

*Actual valve performance varies with pressure and temperature; refer to actual ratings in performance data.

PERFORMANCE DATA



DIMENSIONS

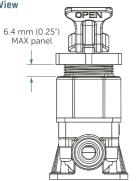


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DIMENSIONS

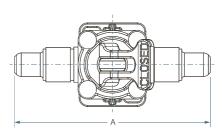
1/4" Flaretek	0.29	4.2	3.36" (85.3 mm)	0.51" (13.0 mm)
1/4" FNPT	0.84	12.0	2.75" (69.8 mm)	0.51" (13.0 mm)
1/4" Super 300 Type Pillar fitting	0.29	4.2	2.57" (65.3 mm)	0.51" (13.0 mm)
1/4" PrimeLock	0.34	4.9	3.18" (80.8 mm)	0.51" (13.0 mm)
1/4" PureBond	0.84	12.0	2.68" (68.1 mm)	0.51" (13.0 mm)
3/8" Flaretek	0.84	12.0	3.50" (88.9 mm)	0.51" (13.0 mm)
3/8" Super 300 Type Pillar fitting	0.84	12.0	2.88" (73.2 mm)	0.51" (13.0 mm)
3/8" PrimeLock	0.84	12.0	3.18" (80.8 mm)	0.61" (15.5 mm)

Manual Toggle Panel Mount Side View

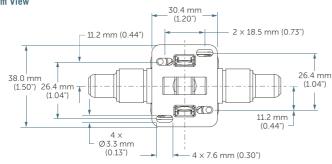




Manual Toggle Top View

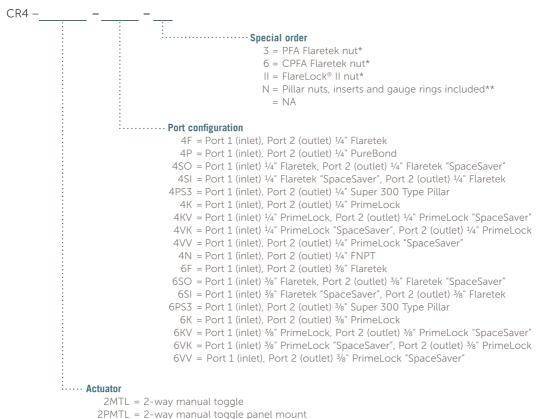


Manual Toggle and Panel Mount Bottom View



ORDERING INFORMATION

CR4 Series Valves: part number



Notes: Not all configurations are permitted. Consult Entegris if multiple special order features are required. Contact factory if "SpaceSaver" port connections are to be used in media containing a fluorinated surfactant.

*Available for Flaretek port connections only.

**Available for Super 300 Type Pillar port connections only.

FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit <u>entegris.com</u> and select the <u>Contact Us</u> link to find the customer service center nearest you.

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