

CR4 Series Manual Valves, 1/4" Orifice, 2- way, Multi-turn

*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 multi-turn 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

FEATURES & BENEFITS

Compact, modular design	Enables manifold customization and saves valuable equipment space
High-temperature capable, all-PFA construction	Withstands corrosive and harsh chemical environments
Same footprint as Galtek® SG Series stand-alone valves and Dymension® surface-mount manifold valves	Allows for easy retrofits or replacement
Variety of connection options	Allows fluid design flexibility



Compact, multi-turn valve.

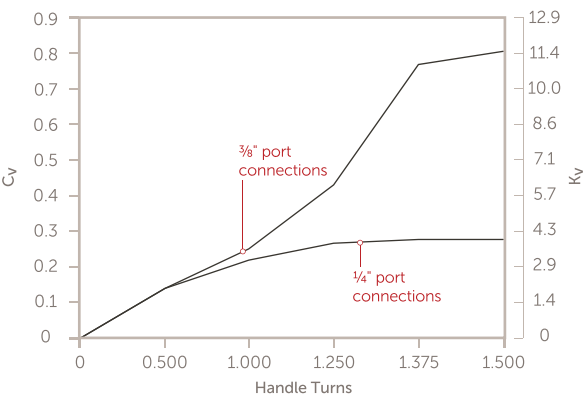
SPECIFICATIONS

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 552 kPa (80 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 ¹	
Compliant	RoHs & WEE		

* Actual valve performance varies with pressure and temperature.

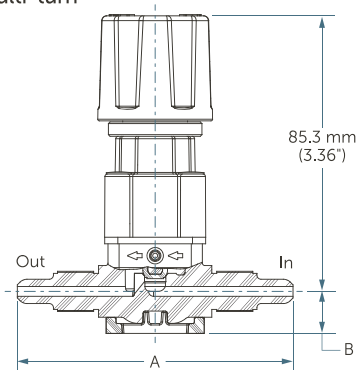
PERFORMANCE DATA

C_v/K_v vs. Number of Handle Turns

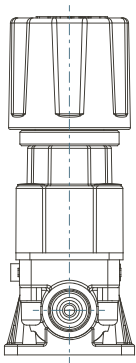


DIMENSIONS

Manual Multi-turn
Front View



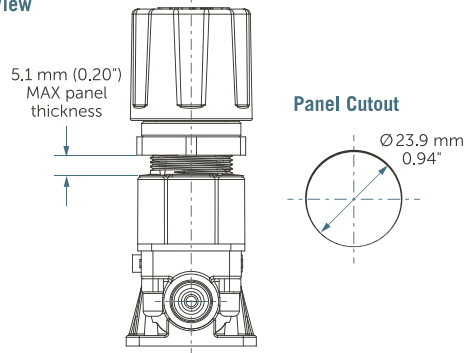
Manual Multi-turn
Side View



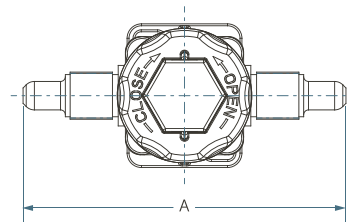
DIMENSIONS

Port Connection	Flow Factor C_v	Flow Factor K_v	Dimensions	
			A	B
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)

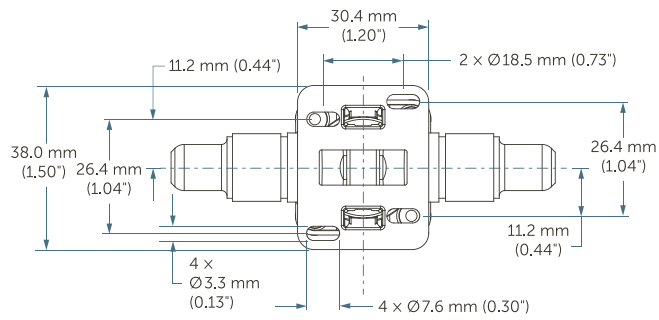
Manual Multi-turn Panel Mount
Side View



Manual Multi-turn
Top View



Manual Multi-turn and Panel Mount
Bottom View



ORDERING INFORMATION

CR4 Series Valves: part number

CR4 - - -

Special order

3 = PFA Flaretek nut*
6 = CPFA Flaretek nut*
II = FlareLock® II nut*
N = Pillar nuts, inserts and gauge rings included**
= NA

Port configuration

4F = Port 1 (inlet), Port 2 (outlet) 1/4" Flaretek
4P = Port 1 (inlet), Port 2 (outlet) 1/4" PureBond
4SO = Port 1 (inlet) 1/4" Flaretek, Port 2 (outlet) 1/4" Flaretek "SpaceSaver"
4SI = Port 1 (inlet) 1/4" Flaretek "SpaceSaver", Port 2 (outlet) 1/4" Flaretek
4PS3 = Port 1 (inlet), Port 2 (outlet) 1/4" Super 300 Type Pillar
4K = Port 1 (inlet), Port 2 (outlet) 1/4" PrimeLock
4KV = Port 1 (inlet) 1/4" PrimeLock, Port 2 (outlet) 1/4" PrimeLock "SpaceSaver"
4VK = Port 1 (inlet) 1/4" PrimeLock "SpaceSaver", Port 2 (outlet) 1/4" PrimeLock
4VV = Port 1 (inlet), Port 2 (outlet) 1/4" PrimeLock "SpaceSaver"
4N = Port 1 (inlet), Port 2 (outlet) 1/4" FNPT
6F = Port 1 (inlet), Port 2 (outlet) 3/8" Flaretek
6SO = Port 1 (inlet) 3/8" Flaretek, Port 2 (outlet) 3/8" Flaretek "SpaceSaver"
6SI = Port 1 (inlet) 3/8" Flaretek "SpaceSaver", Port 2 (outlet) 3/8" Flaretek
6PS3 = Port 1 (inlet), Port 2 (outlet) 3/8" Super 300 Type Pillar
6K = Port 1 (inlet), Port 2 (outlet) 3/8" PrimeLock
6KV = Port 1 (inlet) 3/8" PrimeLock, Port 2 (outlet) 3/8" PrimeLock "SpaceSaver"
6VK = Port 1 (inlet) 3/8" PrimeLock "SpaceSaver", Port 2 (outlet) 3/8" PrimeLock
6VV = Port 1 (inlet), Port 2 (outlet) 3/8" PrimeLock "SpaceSaver"

Actuator

2M = 2-way manual multi-turn
2PM = 2-way manual multi-turn panel mount

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.

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.
- Pillar nuts, inserts and gauge rings included as standard.

FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit [entegris.com](https://www.entegris.com) and select the [Contact Us](#) link to find the customer service center nearest you.

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