

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.

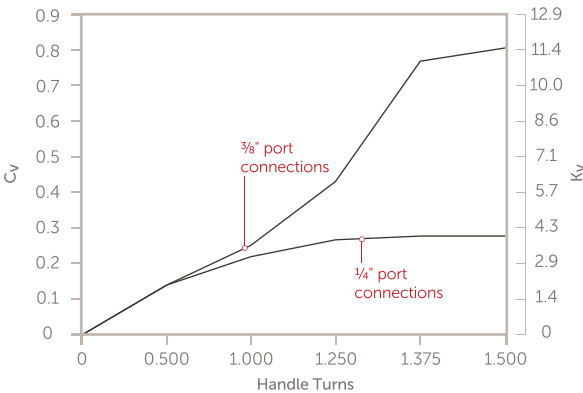
SPECIFICATIONS

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.

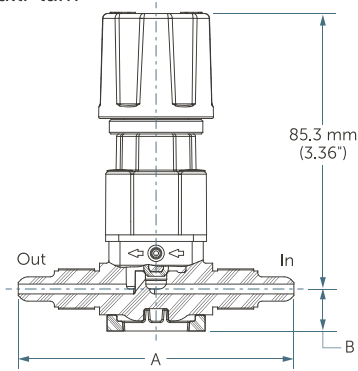
PERFORMANCE DATA

C_v/K_v vs. Number of Handle Turns

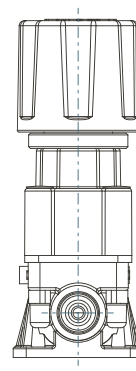


DIMENSIONS

Manual Multi-turn
Front View

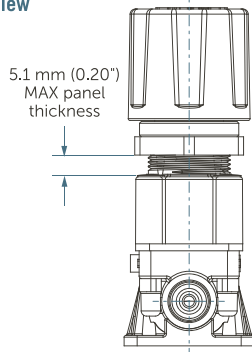


Manual Multi-turn
Side View

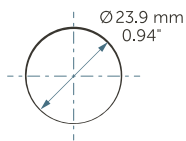


Port Connection	Flow Factor C_v	Flow Factor K_v	Dimensions	
			A	B
1/4" Flaretek	0.29	4.2	3.36" (85.3 mm)	0.51" (13.0 mm)
1/4" FNPT	0.84	12.0	2.75" (69.8 mm)	0.51" (13.0 mm)
1/4" Super 300 Type Pillar fitting	0.29	4.2	2.57" (65.3 mm)	0.51" (13.0 mm)
1/4" PrimeLock	0.34	4.9	3.18" (80.8 mm)	0.51" (13.0 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)

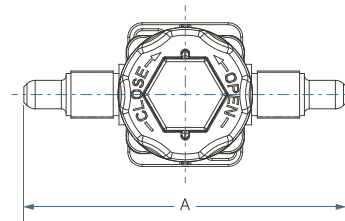
Manual Multi-turn Panel Mount
Side View



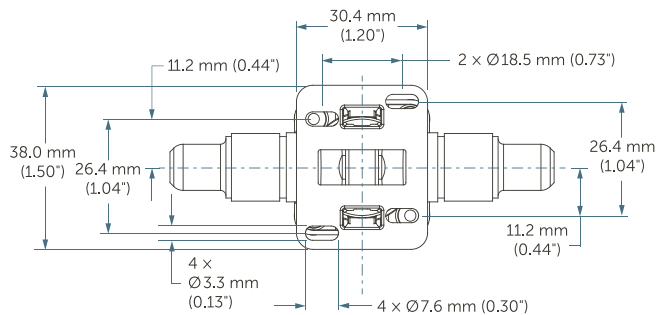
Panel Cutout



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 and select the [Contact Us](#) link to find the customer service center nearest you.

TERMS AND CONDITIONS OF SALE

All purchases are subject to Entegris' Terms and Conditions of Sale. To view and print this information, visit entegris.com and select the [Terms & Conditions](#) link in the footer.



Corporate Headquarters
129 Concord
Billerica, MA 01821
USA

Customer Service
Tel +1 952 556 4181
Fax +1 952 556 8022
Toll Free 800 394 4083

Entegris®, the Entegris Rings Design®, and other product names are trademarks of Entegris, Inc. as listed on entegris.com/trademarks. All third-party product names, logos, and company names are trademarks or registered trademarks of their respective owners. Use of them does not imply any affiliation, sponsorship, or endorsement by the trademark owner.

©2008-2026 Entegris, Inc. | All rights reserved. | Printed in the USA | 3210-11722DSA-0726

www.entegris.com