# Integra<sup>®</sup> Manual Valves, 1" Orifice, 2-way, Multi-turn

Ideal for high-flow bulk chemical distribution applications

Designed for applications where greater flow is required, the molded 1" orifice Integra® valve is ideal for valve boxes and bulk chemical distribution applications. The vacuum rated Integra valve can be installed in the upstream side of pressure vacuum vessels and pumps.

The valve maintains a high flow rate while reducing the footprint in manufacturer's equipment. This Integra valve illustrates our ability to address customer space constraints while still providing superior performance.



Maintains a high flow rate while reducing footprint

### **APPLICATIONS**

Our 1" orifice valves are ideal in applications where greater flow is required, including:

- CMP slurry, ultrapure water and high-purity, corrosive chemical handling
- Valve boxes and high flow bulk chemical distribution applications
- Upstream or downstream side of pressure vacuum vessels and pumps
- Chemical line sizes in 3/4" to 1"

## **FEATURES & BENEFITS**

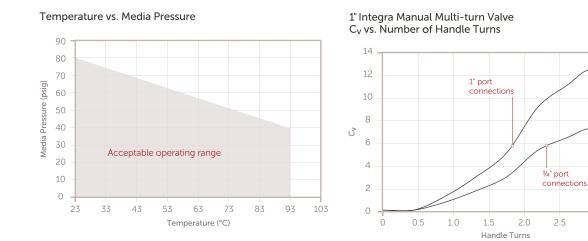
High-purity PFA construction	Provides broad chemical resistance	
Vacuum rated	Enables use in the upstream side of pressure vacuum vessels and pumps	
Small footprint	Saves valuable equipment space	



# **SPECIFICATIONS**

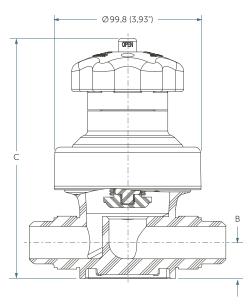
Materials	All wetted parts	PFA, PTFE	
	Exterior actuator parts	PVDF	
	Interior actuator parts	PVDF, Viton <sup>®</sup> , PFA	
Pressure Range	29" Hg to 80 psig (980 mbar to 552 kPa) @ 70°F (21°C) fluid temperature		
	29" Hg to 40 psig (980 mbar to 276 kPa) @ 200°F (93°C) fluid temperature		
Ambient Temperature	100°F (38°C)		

# **PERFORMANCE DATA**

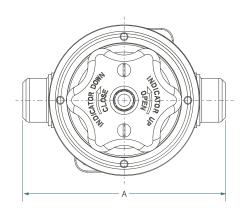


## DIMENSIONS

**Front View** 



**Top View** 



3.0

3.5

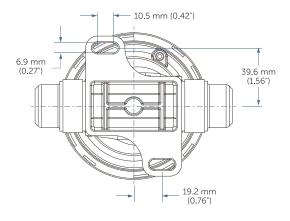
2

## DIMENSIONS

Port connection	Flow factor	A	В	C
3/4" Flaretek <sup>1</sup>	7.2 C <sub>v</sub> (103 K <sub>v</sub> )	5.08" (129.0 mm)	0.96" (24.4 mm)	6.47" (164.3 mm)
3/4" PrimeLock	7.2 C <sub>v</sub> (103 K <sub>v</sub> )	5.58" (141.7 mm)	0.96" (24.4 mm)	6.47" (164.3 mm)
3/4" PureBond	10.4 C <sub>v</sub> (149 K <sub>v</sub> )	6.59" (167.4 mm)	0.96" (24.4 mm)	6.47" (164.3 mm)
1" Flaretek <sup>1</sup>	12.4 C <sub>v</sub> (177.1 K <sub>v</sub> )	5.26" (133.6 mm)	0.96" (24.4 mm)	6.47" (164.3 mm)
1" Super 300 Type Pillar fitting	12.4 C <sub>v</sub> (177.1 K <sub>v</sub> )	5.79" (147.1 mm)	1.06" (26.9 mm)	6.57" (166.9 mm)
1" PrimeLock	12.4 C <sub>v</sub> (177.1 K <sub>v</sub> )	5.94" (150.9 mm)	1.12" (28.4 mm)	6.63" (168.4 mm)
1" PureBond	13.6 C <sub>v</sub> (194.2 K <sub>v</sub> )	6.59" (167.4 mm)	0.96" (24.4 mm)	6.47" (164.3 mm)
11/4" Extended Flaretek	13.6 C <sub>v</sub> (194.2 K <sub>v</sub> )	6.72" (170.7 mm)	1.54" (39.1 mm)	7.05" (179.1 mm)*

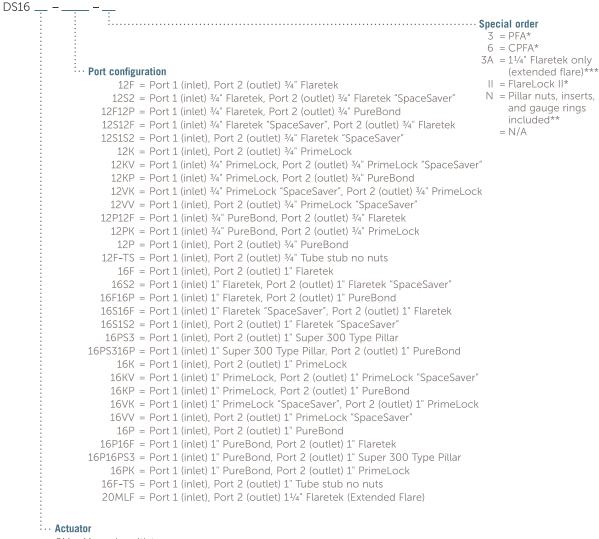
 $^1(\mathsf{PVDF}),$  –3 (PFA), –6 (CPFA) or –II (PFA FlareLock  $^{\circledast}\,$  II) nuts, \*with spacer

## **Bottom View**



#### **ORDERING INFORMATION**

Integra 2-Way, Manual Multi-Turn Valve: part number



2M = Manual multi-turn

\* Available for Flaretek port connections only.

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

\*\*\* Available for 11/4" 2-way manual and pneumatic only.

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

#### 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.

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