

ULTRA HIGH FLOW MANUAL DIAPHRAGM VALVE

STD TYPE

FEATURES

- Internally threadless and springless
- Fully functional from a vacuum to 275psig
- Aerodynamic, fully swept flow passages
- Minimum particle generation and particle areas
- 100% Helium leak tested



MAJOR SPECIFICATIONS

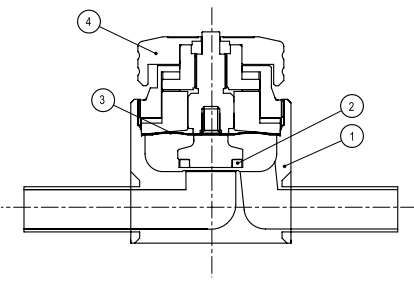
Size	3/4", 1", 1-1/2", 2"
Cv Value	10
Max. Working Pressure (G.)	1.86MPa
Max. Working Temp.	-10°C ~ 80°C
Internal Leakage Allowance (He)	
Test Pressure $\leq 1 \times 10^{-2}$ Torr	1×10^{-10} Pa · m ³ /s
Holding Time ≥ 30 sec.	
External Leakage Allowance (He)	
Test Pressure $\leq 1 \times 10^{-2}$ Torr	1×10^{-10} Pa · m ³ /s
Holding Time ≥ 1 min.	
Particle Inspection (EP only)	
Pressure : 60~80psi N₂ Gas	
Sample Volume : 1CFM	
0.1μm and Larger	No count

PRODUCT GRADE

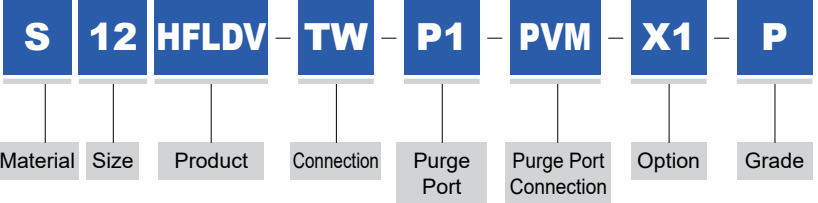
GRADE	AP	BA	EP
Inner Surface Roughness	Ry $\leq 25\mu\text{m}$ Cut off Length : 2.5mm Measuring Length : 12.5mm	Ry $\leq 3.0\mu\text{m}$ 10 μinch Ra(Avg.) Cut off Length : 0.8mm Measuring Length : 4mm	Ry $\leq 0.7\mu\text{m}$ 5 μinch Ra(Avg.) Cut off Length : 0.25mm Measuring Length : 1.25mm
Polishing	Machining Finish	Machining Finish	Electro Polishing Finish

MATERIAL

NO.	NAME	MATERIAL
1	Body	316L Stainless Steel 316L Stainless Steel VAR 304 Stainless Steel
2	Disk	PCTFE
3	Diaphragm	316L Stainless Steel
4	Handle	Aluminum



ORDERING INFORMATION



MATERIAL		SIZE		CONNECTION	
S	316L Stainless Steel	12	3/4"	TW	Butt Weld(3/4", 1", 1-1/2", 2")
D	316L Stainless Steel VAR	16	1"	VM	MFS Male(3/4", 1")
4S	304 Stainless Steel	24	1 - 1/2"	VF	MFS Female(3/4", 1")
		32	2"		

PURGE PORT LOCATION		PURGE PORT CONNECTIONS		GRADE	
P0	Outlet Side	PVM	1/4" MFS Male	AP	AP Grade
P1	Inlet and Outlet			BLANK	BA Grade
P2	Inlet Side	PVF	1/4" MFS Female	P	EP Grade
Blank	No Purge Port				

OUTSIDE DIMENSIONS

	PORT SIZES	
	3/4", 1"	1-1/2", 2"
A	19	29.2
B	218	228

