

LOW PRESSURE PNEUMATIC BLOCK DIAPHRAGM VALVE

STD TYPE

FEATURES

- Space-saving
- Minimal dead space
- Minimal particle generation
- Permanently heat code laser marked; material traceable to original mill certificate of test
- Minimal contributions of Moisture, Oxygen and Hydrocarbon
- Electropolished, D.I. water cleaned, assembled, tested and packed in a certified clean room



MAJOR SPECIFICATIONS

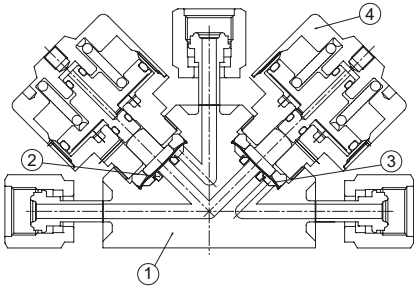
Size	1/4"	3/8", 1/2"
Cv Value	0.3	0.7
Orifice Size	4.5mm	7mm
Max. Working Pressure (G.)	1MPa	
Operating Pressure (G.)	0.4 ~ 0.6MPa	
Max. Working Temp.	PCTFE : -10°C ~ 80°C / PI, PFA : -10°C ~ 150°C	
Internal Leakage Allowance (He)	1x10 ⁻¹⁰ Pa · m ³ /s	
Test Pressure ≤ 1×10 ⁻² Torr		
Holding Time ≥ 15 sec.		
External Leakage Allowance (He)	1x10 ⁻¹⁰ Pa · m ³ /s	
Test Pressure ≤ 1×10 ⁻² Torr		
Holding Time ≥ 1 min.		
Particle Inspection (EP only)	No count	
Pressure : 60~80psi N ₂ Gas		
Sample Volume : 1CFM		
0.1µm and Larger		

PRODUCT GRADE

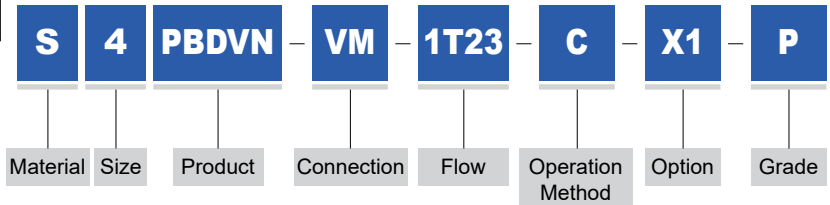
GRADE	AP	BA	EP
Inner Surface Roughness	Ry ≤ 25µm Cut off Length : 2.5mm Measuring Length : 12.5mm	Ry ≤ 3.0µm 10 µinch Ra(Avg.) Cut off Length : 0.8mm Measuring Length : 4mm	Ry ≤ 0.7µm 5 µinch Ra(Avg.) Cut off Length : 0.25mm Measuring Length : 1.25mm
Polishing	Machining Finish	Machining Finish	Electro Polishing Finish

MATERIAL

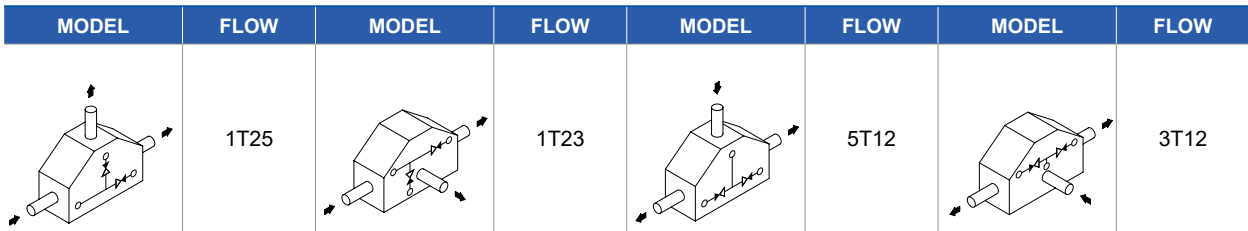
NO.	NAME	MATERIAL
1	Body	316L Stainless Steel 316L Stainless Steel VAR
2	Seat	PCTFE / PI / PFA
3	Diaphragm	Ni-Co Alloy
4	Actuator	Aluminum



ORDERING INFORMATION



MATERIAL	SIZE	CONNECTION	FLOW	OPERATION METHOD	GRADE
S 316L Stainless Steel	4 1/4"	VF MFS Female	1T25	C Normally Close	AP Grade
D 316L Stainless Steel VAR			5T12	O Normally Open	BLANK BA Grade
			1T23		P EP Grade
			3T12		



MODEL	FLOW	SIZE	A	B	C	D	E	F	G	H
	1T25	1/4"	21.8	11	70.4	53.8	118.7	64	15	40
	1T23	1/4"	21.8	11	70.4	34.8	118.7	64	15	40