

## LOW PRESSURE MANUAL BLOCK DIAPHRAGM VALVE

## STD TYPE

## FEATURES

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



## MAJOR SPECIFICATIONS

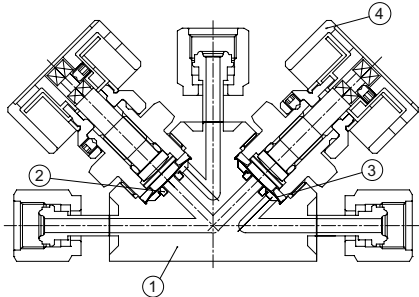
Size	1/4"	3/8", 1/2"
<b>Cv Value</b>	0.3	0.7
<b>Orifice Size</b>	4.5mm	7mm
<b>Max. Working Pressure (G.)</b>	1MPa	
<b>Max. Working Temp.</b>	PCTFE : -10°C ~ 80°C / PI, PFA : -10°C ~ 150°C	
<b>Internal Leakage Allowance (He)</b>	1x10 <sup>-10</sup> Pa · m <sup>3</sup> /s	
<b>Test Pressure ≤ 1×10<sup>-2</sup> Torr</b>		
<b>Holding Time ≥ 30 sec.</b>		
<b>External Leakage Allowance (He)</b>	1x10 <sup>-10</sup> Pa · m <sup>3</sup> /s	
<b>Test Pressure ≤ 1×10<sup>-2</sup> Torr</b>		
<b>Holding Time ≥ 1 min.</b>		
<b>Particle Inspection (EP only)</b>	No count	
<b>Pressure : 60~80psi N<sub>2</sub> Gas</b>		
<b>Sample Volume : 1CFM</b>		
<b>0.1µm and Larger</b>		

## 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	Handle	Aluminum



### ORDERING INFORMATION

**S**
**4**
**BDVN**
**VM**
**1T23**
**X1**
**P**

Material
Size
Product
Connection
Flow
Option
Grade

	MATERIAL	SIZE	CONNECTION	FLOW	GRADE			
S	316L Stainless Steel	4	1/4"	VF	MFS Female	1T25	AP	AP Grade
D	316L Stainless Steel VAR	8	1/2"			5T12	BLANK	BA Grade
						1T23	P	EP Grade
						3T12		

MODEL	FLOW	MODEL	FLOW	MODEL	FLOW	MODEL	FLOW
	1T25		1T23		5T12		3T12

MODEL	FLOW	SIZE	A	B	C	D	E	F	G	H
	1T25	1/4"	21.8	11	74.4	53.8	126.7	64	15	40
		1/2"	23	16	90.2	71.5	145	82	20	55
	1T23	1/4"	21.8	11	74.4	34.8	126.7	64	15	40
		1/2"	23	16	90.2	41	145	82	20	55