

HIGH PRESSURE MANUAL BLOCK DIAPHRAGM VALVE

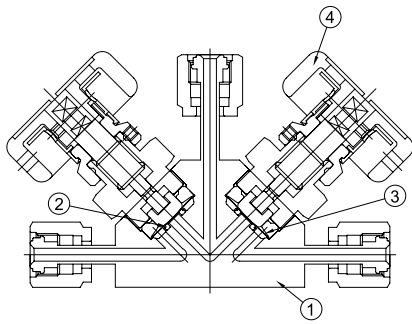
STD TYPE**MAJOR SPECIFICATIONS**

Size	1/4"
Cv Value	0.1
Orifice Size	2.3mm
Max. Working Pressure (G.)	23.5MPa
Max. Working Temp.	-10°C ~ 40°C
Internal Leakage Allowance (He)	
Test Pressure $\leq 1 \times 10^{-2}$ Torr	1x10 ⁻¹⁰ Pa · m ³ /s
Holding Time ≥ 30 sec.	
External Leakage Allowance (He)	
Test Pressure $\leq 1 \times 10^{-2}$ Torr	1x10 ⁻¹⁰ Pa · m ³ /s
Holding Time ≥ 1 min.	
Particle Inspection (EP only)	
Pressure : 60~80psi N₂ Gas	
Sample Volume : 1CFM	No count
0.1µm and Larger	

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
2	Seat	PCTFE
3	Diaphragm	Ni-Co Alloy
4	Handle	Aluminum

ORDERING INFORMATION

S	4	HBDV	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			5T12 1T23 3T12	BLANK BA Grade P EP Grade

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
	1T23	1/4"	21.8	11	74.4	34.8	126.7	64	15	40