

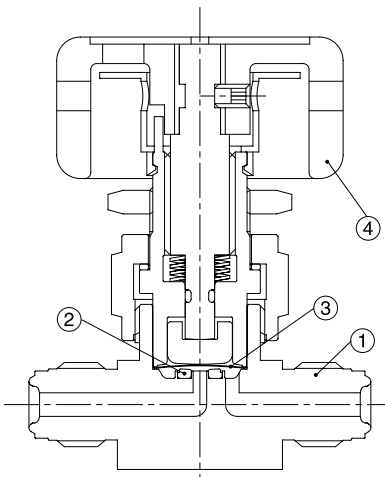
HIGH PRESSURE MANUAL DIAPHRAGM VALVE

BRANCH 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	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 $\leq 25\mu$ m Cut off Length : 2.5mm Measuring Length : 12.5mm	Ry $\leq 3.0\mu$ m 10 μ inch Ra(Avg.) Cut off Length : 0.8mm Measuring Length : 4mm	Ry $\leq 0.7\mu$ m 5 μ inch 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	Seat	PCTFE
3	Diaphragm	Ni-Co Alloy
4	Handle	Aluminum

ORDERING INFORMATION

S
4
HDV3
VM
12T3
X1
P

Material Size Product Connection Flow Option Grade

MATERIAL	SIZE	CONNECTION	FLOW	GRADE
S 316L Stainless Steel	4 1/4"	VM MFS Male		AP AP Grade
D 316L Stainless Steel VAR		VF MFS Female		BLANK BA Grade
4S 304 Stainless Steel		SW Lok		P EP Grade
		TW Butt Weld		

MODEL	CONNECTION	A	B	C	D	E	F	G	H
	MFS Male	57	11	73	48		25.4	28.5	3.5
	MFS Female	70.6	11	73	48		25.4	28.5	3.5
	Lok	69.3	11	73	48	13.5	25.4	28.5	3.5
	Butt Weld	135	11	73	48		25.4	28.5	3.5