

Diaphragm Valve STD TYPE

HIGH PRESSURE DIAPHRAGM VALVE

VALVE

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FEATURES

- Highly resistant to corrosion using nickel-cobalt alloy diaphragm
- 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
- Hastelloy® C-22TM and custom configurations available upon request

Major Specifications

Size	1/4"
Cv Value	0,1
Orifice Size	2,3mm
Max. Working Pressure (G.)	23,5MPa
Max. Working Temp.	-10℃ ~ 40℃
Internal Leakage Allowance (He) Test Pressure $\leq 1 \times 10^{-2}$ Torr Holding Time ≥ 30 sec.	1×10^{-10} Pa · m ³ /s
External Leakage Allowance (He) Test Pressure $\leq 1 \times 10^{-2}$ Torr Holding Time ≥ 1 min.	1×10^{-10} Pa · m ³ /s
Particle Inspection (EP only) Pressure : 60~80psi N ₂ Gas Sample Volume : 1CFM 0,1 μ m 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 $\leq 30\mu$ 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

NINE TECH

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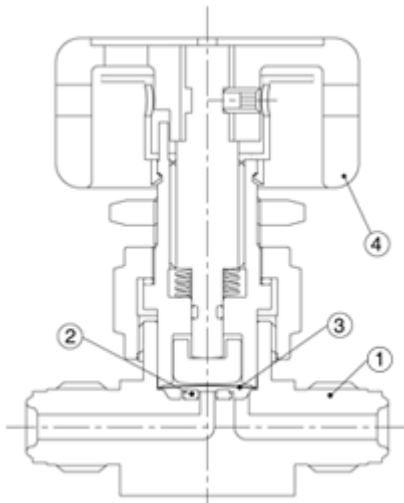
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Material

NO.	NAME	MATERIAL
1	Body	316L Stainless Steel 316L Stainless Steel Remelted 304 Stainless Steel
2	Seat	PCTFE
3	Diaphragm	Ni-Co Alloy
4	Handle	ALUMINUM

Ordering Number

S	4	HDV	-	VM	-	X1	-	P
[Material]	[Size]	[Product]	[Connection]	[Option]	[Grade]			

MATERIAL	SIZE	CONNECTION	GRADE				
S	316L Stainless Steel	4	1/4"	VM	MFS Male	AP	AP Grade
D	316L Stainless Steel Remelted	-	-	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	I	J
	MFS Male	57	11	74	48	28	25,4	28,5	3,5	M5	-
	MFS Female	70,6	11	74	48	28	25,4	28,5	3,5	M5	-
	Lok	55	11	74	48	28	25,4	28,5	3,5	M5	69,3
	Butt Weld	135	11	74	48	28	25,4	28,5	3,4	M5	-

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