

Diaphragm Valve STD TYPE

LOW PRESSURE PNEUMATIC DIAPHRAGM VALVE

VALVE

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FEATURES

- Reduced inner capacity
- Electropolished, D.I. water cleaned, assembled, tested and packaged in a certified clean room
- Minimal contributions of Moisture, Oxygen and Hydrocarbon
- Permanently heat code laser marked; material traceable to original mill certificate of test
- Hastelloy® C-22TM and custom configurations available upon request

Major Specifications

Size	1/4"	3/8", 1/2"	3/4"
Cv Value	0.3	0.7	0.7
Orifice Size	4.5mm	7.8mm	7.8mm
Max. Working Pressure (G.)	1MPa		
Operating Pressure (G.)	0.4~0.6MPa		
Max. Working Temp.	PCTFE : -10℃ ~ 80℃ / PI,PFA : -10℃ ~ 150℃		
Internal Leakage Allowance (He) Test Pressure $\leq 1 \times 10^{-2}$ Torr Holding Time ≥ 15 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 $\leq 3.0\mu$ 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

NINE TECH

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VALVE

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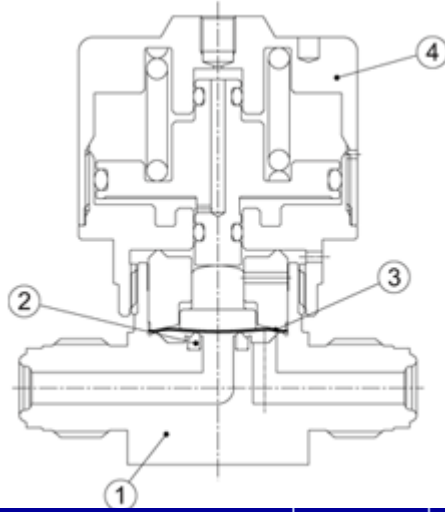
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Material		
NO.	NAME	MATERIAL
1	Body	316L Stainless Steel 316L Stainless Steel Remelted 304 Stainless Steel
2	Seat	PCTFE / PI / PFA
3	Diaphragm	Ni-Co Alloy
4	Handle	ALUMINUM

Ordering Number						
S	4	PDVN	VM	C	X1	P
[Material]	[Size]	[Product]	[Connection]	[Operation Method]	[Option]	[Grade]

MATERIAL	SIZE	CONNECTION	OPERATION METHOD	OPTION	GRADE
S 316L Stainless Steel	4 1/4"	VM MFS Male	C Normally Close	×47 Constant Bleed ø0,3	AP AP Grade
D 316L Stainless Steel Remelted	6 3/8"	VF MFS Female	O Normally Open	×59 Constant Bleed ø0,6	BLANK BA Grade
4S 304 Stainless Steel	8 1/2"	SW Lok	- -	- -	P EP Grade
- -	12 3/4"	TW Butt Weld	- -	- -	- -

MODEL	CONNECTION	SIZE	A	B	C	D	E	F	G
	MFS Male	1/4"	57	11	61	40	26	25,4	-
		3/8"	76,2	16	83,8	55	37	28	-
		1/2"	76,2	16	83,8	55	37	28	-
		3/4"	122	22	90	55	37	28	-
	MFS Female	1/4"	70,6	11	61	40	26	25,4	-
		3/8"	83	16	83,8	55	37	28	-
		1/2"	83	16	83,8	55	37	28	-
		3/4"	122	22	90	55	37	28	-
	Lok	1/4"	69,3	11	61	40	26	25,4	55
		3/8"	82,5	16	83,8	55	37	28	68
		1/2"	91	16	83,8	55	37	28	70
		3/4"	106	22	90	55	37	28	84
	Butt Weld	1/4"	54	11	61	40	26	25,4	-
		3/8"	69	16	83,8	55	37	28	-
		1/2"	69	16	83,8	55	37	28	-
		3/4"	150	22	90	55	37	28	-