

## LOW PRESSURE PNEUMATIC BELLOWS VALVE

## STD TYPE

## 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

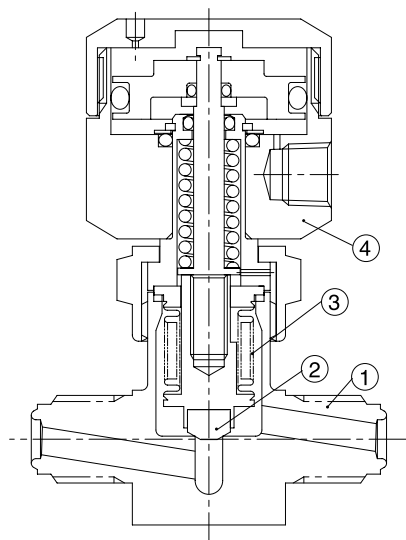


## MAJOR SPECIFICATIONS

Size	1/4"	3/8", 1/2"
<b>Cv Value</b>	0.36	1.1
<b>Orifice Size</b>	4.5mm	8mm
<b>Max. Working Pressure (G.)</b>	1MPa	
<b>Operating Pressure (G.)</b>	0.4 ~ 0.6MPa	
<b>Max. Working Temp.</b>	-10°C ~ 80°C	
<b>Internal Leakage Allowance (He)</b> Test Pressure $\leq 1 \times 10^{-2}$ Torr Holding Time $\geq 15$ sec.	4x10 <sup>-10</sup> Pa · m <sup>3</sup> /s	
<b>External Leakage Allowance (He)</b> Test Pressure $\leq 1 \times 10^{-2}$ Torr Holding Time $\geq 1$ min.	4x10 <sup>-10</sup> Pa · m <sup>3</sup> /s	
<b>Particle Inspection (EP only)</b> Pressure : 60~80psi N <sub>2</sub> Gas Sample Volume : 1CFM 0.1 $\mu$ m and Larger	No count	

## PRODUCT GRADE

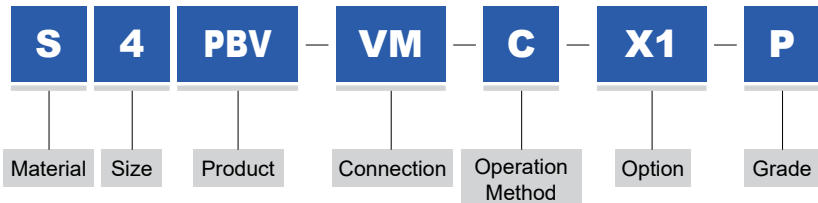
GRADE	AP	BA	EP
Inner Surface Roughness	Ry $\leq 25\mu$ m Cut off Length : 2.5mm Measuring Length : 12.5mm	Ry $\leq 3.0\mu$ m 10 $\mu$ inch Ra(Avg.) Cut off Length : 0.8mm Measuring Length : 4mm	Ry $\leq 0.7\mu$ m 5 $\mu$ inch Ra(Avg.) Cut off Length : 0.25mm Measuring Length : 1.25mm
Polishing	Machining Finish	Machining Finish	Electro Polishing Finish



### MATERIAL

NO.	NAME	MATERIAL
1	Body	316L Stainless Steel 316L Stainless Steel VAR 304 Stainless Steel
2	Disk	PCTFE
3	Bellows	316L Stainless Steel
4	Actuator	Aluminum

### ORDERING INFORMATION



MATERIAL	SIZE	CONNECTION	OPERATION METHOD	GRADE
S 316L Stainless Steel	4 1/4"	VM MFS Male	C Normally Close	AP AP Grade
D 316L Stainless Steel VAR	6 3/8"	VF MFS Female	O Normally Open	BLANK BA Grade
4S 304 Stainless Steel	8 1/2"	SW Lok		P EP Grade
		TW Butt Weld		

MODEL	CONNECTION	SIZE	A	B	C	D	E	F	H
	MFS Male	1/4"	58	14	82.6	40	23	25	
		3/8"	60	16	88.7	40.6	23	25	
		1/2"	60	16	88.7	40.6	23	25	
	MFS Female	1/4"	70.5	14	82.6	40	23	25	
		3/8"	90	14	86.7	40.6	23	25	
		1/2"	90	14	86.7	40.6	23	25	
	Lok	1/4"	50	14	82.6	40	23	25	64
		3/8"	63	14	86.7	40.6	23	25	78
		1/2"	63	14	86.7	40.6	23	25	83.5
	Butt Weld	1/4"	150	14	89.1	40	23	25	
		3/8"	150	14	86.7	40.6	23	25	
		1/2"	150	14	86.7	40.6	23	25	