

## LOW PRESSURE MANUAL DIAPHRAGM VALVE

# WELD TEE & VALVE TYPE

## FEATURES

- Used in sub-main or after of the bulk gas piping system
- Developed for low cost
- Simple and easy to use
- Minimal contributions of Moisture, Oxygen and Hydrocarbon
- Component parts are reduced to minimum



## MAJOR SPECIFICATIONS

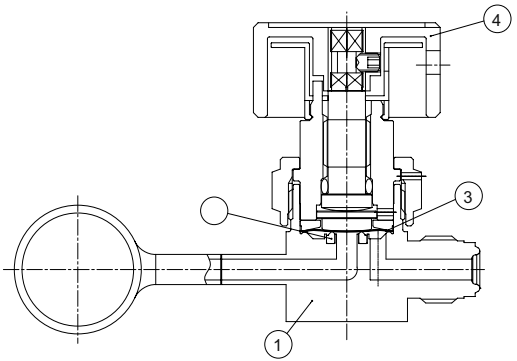
Size	1/4"	3/8", 1/2"	3/4"
<b>Cv Value</b>	0.3	0.7	0.7
<b>Orifice Size</b>	4.5mm	7mm	7mm
<b>Max. Working Pressure (G.)</b>	1MPa		
<b>Max. Working Temp.</b>	PCTFE : -10°C ~ 80°C / PI, PFA : -10°C ~ 150°C		
<b>Internal Leakage Allowance (He)</b>	1x10 <sup>-10</sup> Pa · m <sup>3</sup> /s		
<b>Test Pressure ≤ 1×10<sup>-4</sup> Torr</b>			
<b>Holding Time ≥ 30 sec.</b>			
<b>External Leakage Allowance (He)</b>	1x10 <sup>-10</sup> Pa · m <sup>3</sup> /s		
<b>Test Pressure ≤ 1×10<sup>-4</sup> Torr</b>			
<b>Holding Time ≥ 1 min.</b>			
<b>Particle Inspection (EP only)</b>	No count		
<b>Pressure : 60~80psi N<sub>2</sub> Gas</b>			
<b>Sample Volume : 1CFM</b>			
<b>0.1µm and Larger</b>			

## PRODUCT GRADE

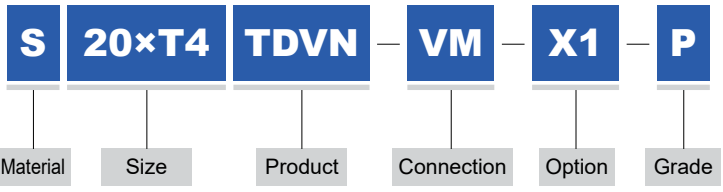
GRADE	AP	BA	EP
Inner Surface Roughness	Ry ≤ 25µm Cut off Length : 2.5mm Measuring Length : 12.5mm	Ry ≤ 3.0µm 10 µinch Ra(Avg.) Cut off Length : 0.8mm Measuring Length : 4mm	Ry ≤ 0.7µm 5 µinch Ra(Avg.) Cut off Length : 0.25mm Measuring Length : 1.25mm
Polishing	Machining Finish	Machining Finish	Electro Polishing Finish

### MATERIAL

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



### ORDERING INFORMATION



MATERIAL	SIZE	CONNECTION	GRADE
S 316L Stainless Steel	20xT4	VM MFS Male	AP AP Grade
D 316L Stainless Steel VAR	20xT6	VF MFS Female	BLANK BA Grade
4S 304 Stainless Steel	20xT8	SW Lok	P EP Grade
	20xT12	TW Butt Weld	

MODEL	CONNECTION	SIZE	A	B	C	D	E	H
	MFS Male	1/4"	98.5	11	64.3	26	40	115.5
		3/8"	122.6	16	76.8	28	40	135.1
		1/2"	122.6	16	76.8	28	40	125.1
		3/4"	158.9	22	82.8	28	40	172.5
	MFS Female	1/4"	105.9	11	64.3	26	40	122.9
		3/8"	114.5	16	76.8	28	40	131.5
		1/2"	114.5	16	76.8	28	40	131.5
		3/4"	141.8	22	82.8	28	40	155.4
	Lok	1/4"	105	11	64.3	26	40	114.7
		3/8"	118.5	16	76.8	28	40	135.5
		1/2"	118.5	16	76.8	28	40	135.5
		3/4"	155	22	82.8	28	40	168.6
	Butt Weld	1/4"	97.2	11	64.3	26	40	114.2
		3/8"	126	16	76.8	28	40	143
		1/2"	126	16	76.8	28	40	143
		3/4"	155	16	82.8	28	40	168.6