LOW PRESSURE FULL / HALF FLOW PNEUMATIC BELLOWS VALVE

YPBV TYPE

FEATURES

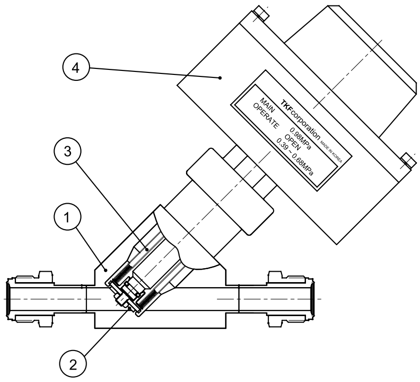
- Achieved large Cv value
- Inner surface has uniform surface roughness
- The valve seat is designed to produce less dust and gas residue

MAJOR SPECIFICATIONS

	FULL FLOW		HALF FLOW
Size	**1/2″**	**3/4″**	**1″**
Cv Value	17	20	36
Max. Working Pressure (G.)	1MPa		
Operating Pressure (G.)	1/2″~1″ : 0.4 ~ 0.7MPa		
Max. Working Temp.	-10°C ~ 80°C		
Internal Leakage Allowance (He) **Test Pressure ≤ 1×10^{-2} Torr** **Holding Time ≥ 30 sec.**	$1\text{x}10^{-6}$ Pa · m^3/s		
External Leakage Allowance (He) **Test Pressure ≤ 1×10^{-2} Torr** **Holding Time ≥ 1 min.**	$1\text{x}10^{-6}$ Pa · m^3/s		
Particle Inspection (EP only) **Pressure : 60~80psi N_2 Gas** **Sample Volume : 1CFM** **0.1μm and Larger**	No count		

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	Disk	PCTFE / PTFE
3	Bellows	316L Stainless Steel
4	Actuator	Aluminum

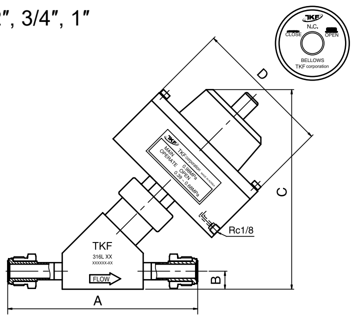
ORDERING INFORMATION

S	4	YPBV	—	TW	—	C	—	X1	—	P
Material	Size	Product		Connection		Operation Method		Option		Grade

MATERIAL		SIZE		PRODUCT		CONNECTION		OPERATION METHOD		GRADE	
S	316L Stainless Steel	T8	1/2″	YPBVK	Full Flow	VM	MFS Male	C	Normally Close	AP	AP Grade
D	316L Stainless Steel VAR	T12	3/4″	YPHBVK	Half Flow	VF	MFS Female	O	Normally Open	BLANK	BA Grade
4S	304 Stainless Steel	T16	1″			TW	Butt Weld			P	EP Grade

MODEL

BODY SIZE : 1/2″, 3/4″, 1″



Full Flow

CONNECTION	SIZE	A	B	C	D
VM	1/2″	162	15	175	120
VM	3/4″	211.2	20	222	155
TW	3/4″	260	20	222	155
VM	1″	214	17.7	230	165
TW	1″	270	17.7	230	165

Half Flow

CONNECTION	SIZE	A	B	C	D
VM	1/2″	162	15	175	120
VM	3/4″	211.2	20	228	155
TW	3/4″	260	20	228	155
VM	1″	214	17.7	228	165
TW	1″	270	17.7	228	165