# **PBV1 Bellows Valves**

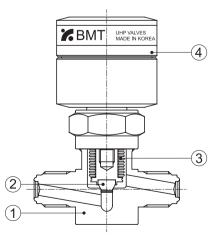
Low Pressure Pneumatic Bellows Valves (Standard Type) - N.O/N.C



### Specifications

Size	1/4"	3/8", 1/2"
Cv Value	0.36	1.1
Orifice Size	4.5 mm	8.0 mm
Max. Working Pressure	10 bar (1	45 psig)
Operating Pressure	0.4~0.6 MPa	(58~87 psig)
Working Temperature	PCTFE: -10 ~ 80°C (14 ~ 176°F	) / PI: -10 ~ 150°C (14 ~ 302°F)
<b>Inboard Leak Test Rates (He)</b> (Holding Time ≥ 15 sec.)	≤4x10 <sup>-9</sup>	atm.cc/s
Across the Seat Leak Test Rates (He) (Holding Time ≥ 15 sec.)	≤4x10 <sup>-9</sup>	atm.cc/s
Particle Inspection (EP Only) (0.1µm and Larger)	No C	ount

#### Material

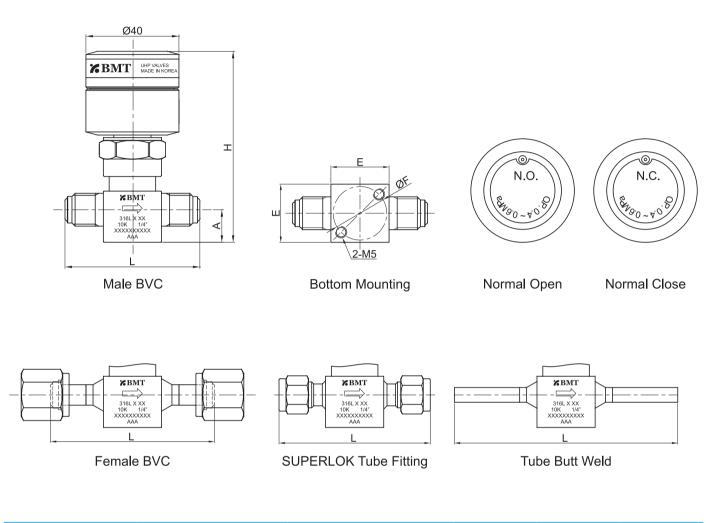


No.	Component	Material
		316L Stainless Steel
1	Body	316L Stainless Steel VAR
		304 Stainless Steel
2	Seat	PCTFE (standard) / PI
3	Bellows	316L Stainless Steel
4	Actuator	Aluminium

·Dimensions and Drawings are for reference only and are subject to change without prior notice.

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### Dimensions

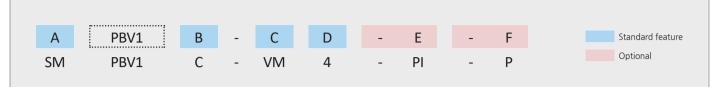


End Connection	Part No.	Dimensions (mm)				
Enaconnection	Part NU.	L	Н	А	E	F (Φ)
	SMPBV1C-VM4	58	82.7			
Male BVC	SMPBV1C-VM6	60	86.6	14	25	23
	SMPBV1C-VM8	60	86.6			
	SMPBV1C-VF4	70.5	82.7			
Female BVC	SMPBV1C-VF6	90	86.6	14	25	23
	SMPBV1C-VF8	90	86.6			
	SMPBV1C-S4	65	82.7			
SUPERLOK Tube Fitting	SMPBV1C-S6	78	86.6	14	25	23
	SMPBV1C-S8	83.4	86.6			
	SMPBV1C-TW4	150	82.7			
Tube Butt Weld	SMPBV1C-TW6	150	86.6	14	25	23
	SMPBV1C-TW8	150	86.6			

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## **Ordering Information**

Low Pressure Pneumatic Bellows Valves (Standard Type) - N.O/N.C \*Additional configurations available upon request.



Α	Materials	
	SM	316L Stainless Steel
	DM	316L Stainless Steel VAR
	4SS	304 Stainless Steel
В	Operation	Method
	С	Normally Closed
	0	Normally Open
С	Connectio	n Type
	VM	Male BVC (BMT Vacuum Coupling)
	VF	Female BVC (BMT Vacuum Coupling)
	S	SUPERLOK Tube Fitting
	TW	Butt Weld
	VMXVF	In Male-Out Female

D	Connectio	n Size		
	ASTM Tube			
	Designator	Nominal Size	Outside Diameter	Wall Thickness
	4	1/4 in.	6.35 mm	1.00 mm
	6	3/8 in.	9.53 mm	1.00 mm
	8	1/2 in.	12.7 mm	1.24 mm

E	Seat Mat	terial
	PCTFE is sta	andard. No part designator needed.
	PI	Polyimide
F	Wetted S	Surface Grade

•	welled 3	Wetter Sundee Grade	
	BA is standard. No part designator needed.		
	Р	EP	
	MP	MP	
	AP	AP	

### **Part Number Examples**

	SMPBV1C-VM4-PI-P		4SSPBV10-TW6-AP	
Material	SM	316L Stainless Steel	4SS	304 Stainless Steel
Series	PBV1	PBV1 series	PBV1	PBV1 series
Operation Method	С	Normally Closed	0	Normally Open
Connection Type	VM	BVC Male	TW	Butt Weld
Connection Size	4	1/4"	6	3/8"
Flow Path		Omit for PBV1 series		Omit for PBV1 series
Seat Material	PI	Polyimide		PCTFE (standard)
Grade	Р	EP grade	AP	AP grade