

Bellows Seal Valve for High Temperature (200°C)





HBV Bellows Seal Valve for High Temperatures (200°C)

[Features]

The HBV series Bellows Seal Valves are non-metal seated valves with excellent heat resistance and airtightness, developed for use under high-temperature conditions.

- PEEK seat realizes high heat resistance.
- High sealing performance and durability are realized by equipping with a metallic bellows seal.
- Wet parts are precisely rinsed and treated oil free.
- Assembled and packaged in a clean room.

Specification

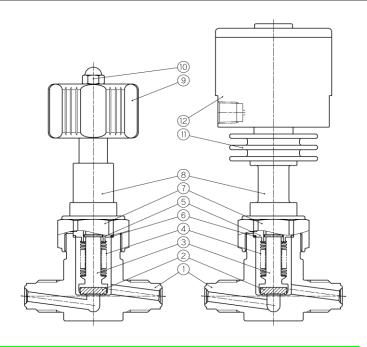
Nominal Size	1/4"	3/8"	1/2"	
Work Pressure	Vac.∼1MPa			
Work Temp.	−10 ~ +200°C			
Detected Leak	Internal(※1)	\leq 5 × 10 ⁻¹⁰	Pa•m³/sec.	
Detected Leak	External	$\leq 1 \times 10^{-9} \text{Pa} \cdot \text{m}^3/\text{sec.}$		
Cv Value ^(※2)	0.3	0.6	0.8	
End Connections(※3)	VTF(Metal gasket sealing type)			
	BI-Lok(Double ferrule type)			

Air Work Pressure	0.4 ~ 0.6MPa	
	(Manual)	Over 20,000
Work Durability (※4)	(Automatic 1/4")	Over 1,000,000
	(Automatic 3/8",1/2")	Over 1,000,000

- (※1) In the case of PEEK seat. (Depends on the material.)
- (X2) In the case of VTF Male connection.
- (※3) Other connection types available. Please ask us.
- (¾4) In-house Test: 1MPa N2 gas sealed.

Primary Material

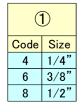
	Parts Name	Materials
1	Body	SUS316L
2	Disk	PEEK
3	Disk Holder	SUS316L
4	Bellows	SUS316L
5	Bellows Flange	SUS316L
6	Gasket	Ni
7	Bonnet Nut	SUS304
8	Bonnet	SUS304
9	Handle	ADC12
10	Nut	SUS304
11)	Fin	A5056
12	Actuator	Al etc .



Part number / nomenclature

HBV - 1) 2) - 3) - 4) - PEEK

e.g. HBV - 4VM - NC - EP - PEEK [1/4"VTF Male Connection Normal Close Electro-Polishing]

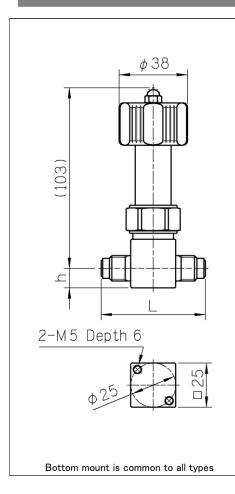


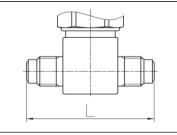
2			
Code	Connection		
VM	VTF(M)		
VF	VTF(F)		
D	BI-Lok		

3			
Code	Actuation		
Blank	Manual		
NC	Normal Close		
ОИ	Normal Open		

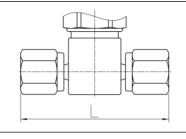
4			
Code	Inner Finishing		
EP	Electro-polishing (< Ra0.18 μ m)		
BA	Mechanical-polishing (< Ra0.8 μ m)		

Dimensions (Manual)

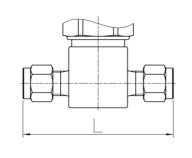




VTF(Male)			
Model	Size	L	h
HBV-4VM	1/4″	58	11
HBV-8VM	1/2″	65	16

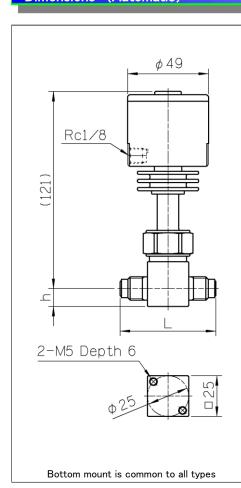


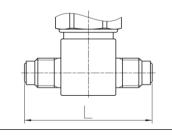
VTF(Female)			
Model	Size	L	h
HBV-4VF	1/4"	70.6	11
HBV-8VF	1/2″	82	16



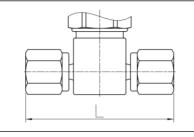
BI-Lok			(mm)
Model	Size	L	h
HBV-4D	1/4"	64	11
HBV-6D	3/8"	77	16
HBV-8D	1/2"	82.6	16

Dimensions (Automatic)

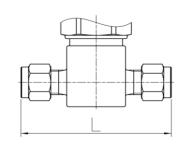




VIF(Male)			(mm)
Model	Size	L	h
HBV-4VM-NC/NO	1/4"	58	11
HBV-8VM-NC/NO	1/2"	65	16



VTF(Female)			(mm)
Model Size			h
HBV-4VF-NC/NO	1/4"	70.6	11
HBV-8VF-NC/NO	1/2"	82	16



BI-Lok			(mm)
Model	Size	L	h
HBV-4D-NC/NO	1/4"	64	11
HBV-6D-NC/NO	3/8"	77	16
HBV-8D-NC/NO	1/2"	82.6	16



ISO 9001/ISO14001 Certified P

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WARRANTY CLAUSE

1. Warranty Period

The warranty period of the products is one (1) year from start of use or one and half (1.5) years after delivery whichever comes earlier. However, the products with special specification and/or the cases used deviating from the design specification shall be exempted.

2. Scope of Warranty

Any failure and damage under maker's responsibility found during the warranty period, the substitutes and/or replacement parts shall be provided free of charge. The warranty shall not be applied to a claim for the liquidated damages.

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