



Low Pressure Manual Bellows Valves Standard Type

No.VB Series
DEC.2021



Features

- Compact designed inner capacity.
- Minimal contributions of moisture, Oxygen and Hydrocarbon, Minimal particle generation.
- DK-LOK's own electropolished.
- DI water cleaned, assembled, tested & packaged in the certified clean room.
- Standard PTFE Disk Material.

Specification

Size	15A	1"	20A	25A
Cv Value	2.9	4.1	4.1	6.9
Max. Working Pressure	10 bar (145 psig)			
Max. Working Temperature	-10° ~ 80°C (-23~-176°F)			
Internal Leakage Allowance (He) Test Pressure $\leq 1 \times 10^{-2}$ Torr Holding Time ≥ 15 sec.	$\leq 1 \times 10^{-5}$ atm.cc/s			
External Leakage Allowance (He) Test Pressure $\leq 1 \times 10^{-2}$ Torr Holding Time ≥ 1 min.	$\leq 1 \times 10^{-5}$ atm.cc/s			
Particle Inspection (EP only) Pressure : 60~80 psi N2 Gas Sample Volume : 1CFM 0.1 μ m and Larger	No count			

Product Grade

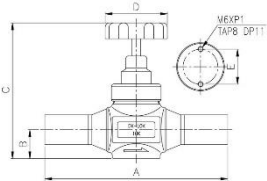
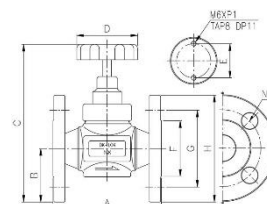
Level	AP	BA	EP
Inner Surface Roughness	Ry $\leq 25 \mu$ m	Ry $\leq 3.0 \mu$ m / Ra 10 μ in	Ry $\leq 0.7 \mu$ m / Ra 5 μ in
	Cut off Length : 2.5mm	Cut off Length : 0.8mm	Cut off Length : 0.25mm
	Measuring Length : 12.5mm	Measuring Length : 4mm	Measuring Length : 1.25mm
Polishing	Machining Finish	Machining Finish	Electro Polishing Finish

Material of Construction

Description	Materials
Body	304 Stainless Steel
	316L Stainless Steel
Disk	PTFE
Bellows	316L Stainless Steel
Handle	Aluminum

- Wetted Components are listed in [blue](#)

Ordering Information and Dimensions

Model	Basic Ordering Number	End Connections	Dimensions (mm)									
			Size	A	B	C	D	E	F	G	H	N-I
	U-VB15A-TW-	15A Butt Weld	15A	190	24	127	75	30	-		-	-
	U-VB16T-TW-	1" Butt Weld	1"	200	28	130	75	35	-		-	-
	U-VB20A-TW-	20A Butt Weld	20A	200	28	130	75	35	-		-	-
	U-VB25A-TW-	25A Butt Weld	25A	210	33	155	75	40	-		-	-
	U-VB15A-FL-	15A Flange	15A	108	47.5	151	75	30	51	70	95	4-Ø15
	U-VB20A-FL-	20A Flange	20A	117	50	152	75	35	56	75	100	4-Ø15
	U-VB25A-FL-	25A Flange	25A	127	62.5	184	75	40	67	90	125	4-Ø19

How to order

U	-	VB	-	15A	-	TW	-	SL	-	B	-	X
DK-LOK UHP Product		Valve Type		Size		End Connector Type		Material		Inner Surface Level		User Option

Valve Type	Size	End Connector Type	Material	Surface Level	User Option
VB	15A : 15A	TW : Butt Weld	4S : 304 Stainless Steel	AP : AP Grade	Blank : Standard
	16T : 1"	FL : Flange(JIS10K)	SL : 316L Stainless Steel	B : BA Grade	X : Customization No.
	20A : 20A			P : EP Grade	
	25A : 25A		-		

Safe Valve Selection

The selection of a valve for any application or system design must be considered to ensure safe performance. Valve function, valve rating, material compatibility, proper installation, operation and maintenance remain the sole responsibility of the system designer and the user. DK-Lok accepts no liability for any improper selection, installation, operation or maintenance.

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