

Low Pressure Manual Bellows Valves

Standard Type



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	65A	80A	100A	125A	150A	200A	250A	300A	350A	400A	450A	500A
Cv Value	81	132	200	302	434	772	1200	1600	2000	2650	3100	3400
Max. Working Pressure	10 bar (145 psig)											
Max. Working Temperature	-10° ~ 80°C (-23~-176°F)											
Internal Leakage Allowance (He) Test Pressure ≤ 1×10 ⁻² Torr Holding Time ≥ 15 sec.	≤ 1x10 ⁻⁵ atm.cc/s											
External Leakage Allowance (He) Test Pressure ≤ 1×10 ⁻² Torr Holding Time ≥ 1 min.	≤ 1x10 ⁻⁵ atm.cc/s											
Particle Inspection (EP only) Pressure : 60~80 psi N2 Gas Sample Volume : 1CFM 0.1μm and Larger	No count											

Product Grade

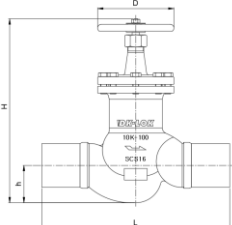
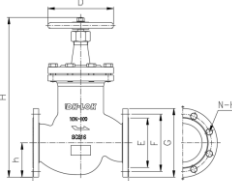
Level	AP	BA	EP
Inner Surface Roughness	Ry ≤ 25 μm	Ry ≤ 3.0 μm / Ra 10μin	Ry ≤ 0.7 μm / Ra 5μin
	Cut off Length : 2.5mm	Cut off Length : 0.8mm	Cut off Length : 0.25mm
	Measuring Length : 12.5mm	Measuring Length : 4mm	Measuring Length : 1.25mm
Polishing	Machining Finish	Machining Finish	Electro Polishing Finish

Material of Construction

Description	Materials
Body	SCS13
	SCS16
Disk	PTFE
Bellows	316L Stainless Steel
Handle	SCS13

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

Ordering Information and Dimensions

Model	Basic Ordering Number	End Connections	Dimensions (mm)									
			STD	Size	L	h	H	D	E	F	G	N-H
	U-VB65A-TW-	65A Butt Weld	Sch.5	65A	416	68	289	160	-	-	-	
	U-VB80A-TW-	80A Butt Weld	Sch.5	80A	441	80	329	160	-	-	-	
	U-VB100A-TW-	100A Butt Weld	Sch.5	100A	492	94	476	200	-	-	-	
	U-VB125A-TW-	125A Butt Weld	Sch.10	125A	556	111	539	300	-	-	-	
	U-VB150A-TW-	150A Butt Weld	Sch.10	150A	606	126	555	300	-	-	-	
	U-VB200A-TW-	200A Butt Weld	Sch.10	200A	795	157	714	400	-	-	-	
	U-VB250A-TW-	250A Butt Weld	Sch.10	250A	1022	190	868	400	-	-	-	
	U-VB300A-TW-	300A Butt Weld	Sch.10	300A	1100	216	1120	500	-	-	-	
	U-VB350A-TW-	350A Butt Weld	Sch.10	350A	1187	241	1286	713	-	-	-	
	U-VB400A-TW-	400A Butt Weld	Sch.10	400A	1314	268	1318	713	-	-	-	
	U-VB450A-TW-	450A Butt Weld	Sch.10	450A	1440	305	1454	800	-	-	-	
	U-VB500A-TW-	500A Butt Weld	Sch.10	500A	1440	327.5	1625	800	-	-	-	
	U-VB65A-FL-	65A Flange	JIS10K	65A	216	87.5	308	160	116	140	175	4-Ø19
	U-VB80A-FL-	80A Flange	JIS10K	80A	241	92.5	341	160	126	150	185	8-Ø19
	U-VB100A-FL-	100A Flange	JIS10K	100A	292	105	487	200	151	175	210	8-Ø19
	U-VB125A-FL-	125A Flange	JIS10K	125A	356	125	553	300	182	210	250	8-Ø23
	U-VB150A-FL-	150A Flange	JIS10K	150A	406	140	569	300	212	240	280	8-Ø23
	U-VB200A-FL-	200A Flange	JIS10K	200A	495	165	721	400	262	290	330	12-Ø23
	U-VB250A-FL-	250A Flange	JIS10K	250A	622	200	868	400	324	355	400	12-Ø25
	U-VB300A-FL-	300A Flange	JIS10K	300A	698	222.5	1120	500	368	400	445	16-Ø25
	U-VB350A-FL-	350A Flange	JIS10K	350A	787	245	1290	713	413	445	490	16-Ø25
	U-VB400A-FL-	400A Flange	JIS10K	400A	914	280	1330	713	475	510	560	16-Ø27
	U-VB450A-FL-	450A Flange	JIS10K	450A	1040	310	1579	800	530	565	620	20-Ø27
	U-VB500A-FL-	500A Flange	JIS10K	500A	1040	338	1630	800	585	620	675	20-Ø27

How to order

U	-	VB	-	65A	-	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	65A : 65A	TW : Butt Weld FL : Flange(JIS10K)	4S : SCS13 SL : SCS16	AP : AP Grade B : BA Grade P : EP Grade	Blank : Standard X : Customization No.
	80A : 80A				
	100A : 100A				
	125A : 125A				
	150A : 150A				
	200A : 200A				
	250A : 250A				
	300A : 300A				
	350A : 350A				
	400A : 400A				
	450A : 450A				
	500A : 500A				

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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