

PRECISION & CLEAN HEX BALL VALVES VB1 Series

www.korlokusa.com

Kor-Lok WSA

Features

Pressure rating up to 1000psig (69bar) with PTFE seats and 2000psig(137bar) with TFM only for VB1F series ball valves with lever handle

Easy to operate owing to low torque quarter turn actuation

All valve body's made from 316SS bar stock to secure the high integrity

Compact designed one piece hexagonal body

Micro finished 316SS balls not to occur the leakage

Blow-out proof design with internally loaded stem

Various selection of handles

Wide choice of end connections : Kor-Lok tube fittings, Female NPT or ISO7/1(PT) threads, Weld Systems

Application

Steam, water, air lines in onshore and offshore application

Utility lines in semiconductor and display panel industries.

Protection Cover

Maintain the temperature of fluids, keep handle position and distinguish in-out lines visually, to keep the temperature of flow and to distinguish the line.

VB1 series ball valve with both 3/4" Kor-Lok end connection and plastic bar handle. 1/2" is available only with the different size of inner cover.





Type of Handle

(standard)





Bar handles offer visual distinguishment of in-out lines at high purity applications.



Testing

Every valve is 100% factory tested with air and nitrogen at 1000psig(69bar) for leakage at the seat and packing. Each test is performed to a maximum allowable leak rate of 0.1scc/min.

Cleaning

Kor-Lok valves are free from machine oils, loose particles and grease throughout the close cleaning process.

The special cleaning for high purity application is available upon request.

Important Notification

Kor-Lok ball valves are designed to be operated in a fully open or fully closed position.

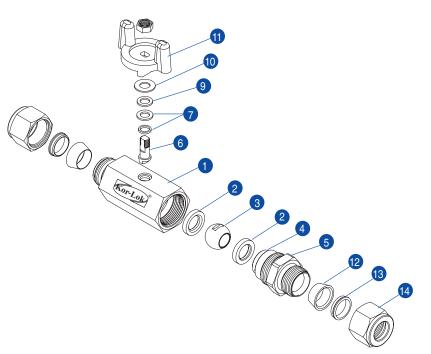
The packing adjustment may be required during the valve's service life.

Proper installation, materials compatibility, operation and maintenance of these valves are the responsibility of the user. The total system design must be taken into consideration to ensure optimal performance and safety.



Materials of Construction

No.	Description	Materials					
1	Body	316SS					
2	Ball Seat	PTFE(Glass 30%)					
3	Ball	316SS					
4	O-Ring	Viton					
5	Connector	316SS					
6	Stem	316SS					
7	Inner Packing	PTFE					
8	Outer Packing	PTFE					
9	Gland	316SS					
10	Washer	316SS					
11	Handle	Aluminium					
12	Front Ferrule	316SS					
13	Back Ferrule	316SS					
14	Nut	316SS					

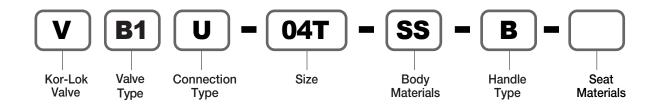


Handle Materials : Lever - 304SS+PVC Coat Bar - Nylon

How To Order

Kor-Lok VB1 series ball valves are ordered by part number as shown as below.

Example : The following part number, VB1U-04T-SS-B is designated for VB1 series ball valve with both 1/4" Un-Lok tube fitting, 316SS, PTFE seat, butterfly handle.



Uni-Lok Designator			Connection Type							Handle Type		/pe			
U Kor-Lok Tube Fitting				Fractional(Inch) Tube O.D. Designation							None Lever Handle		Handle		
F Female NPT or ISO7/1(PT)			Tube	incł	า 1/4	3/8	1/2	3/4	1		В	Butterfly	Handle		
WB-*T		Butt We	ld-Tube	÷	O.D.	mn	6.35	9.52	12.70	19.05	25.40		PR	Nylon	Red
WB-*P	WB-*P Butt Weld-Pipe			Desig	nato	r 04T	06T	08T	12T	16T		PS	Bar	Blue	
Dir	oe Size		ecianati	ion		Me	tric Tuł	e O.D.	Design	ation			PB	Handle	Black
1 1		0.0.0	Signat					ю 0.D.	Desigi						
Pipe	Normal	15A	20A	25A	Tube O.D.	mn	ו 6	8	10	12	25			Seat Mate	rials
O.D.	mm	21.7	27.2	34.0	Desic	Inato	r M06	т мовт	M10T	M12T	M25T		None	PT	FE
Desig	gnator	15A	20A	25A	Desig	ΠαιΟ			WITOT		1012.51		TF	TF	M
Pipe Size Designation (NPT or ISO7/1-PT)							PK	PE	EK						
					Pipe S	Size	1/8	1/4	3/8	1/2	3/4	1			
					Design	ator	02N/R	04N/R	06N/R	08N/R	12N/R	16N/R			



VB1U series (Both Kor-Lok Tube Fittings)

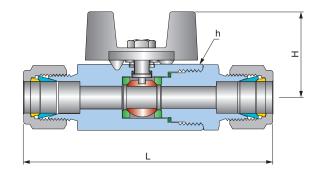
Max Operating Pressure

1000psig (69bar) at 38 $^{\circ}\text{C}(100^{\circ}\text{F})$ with PTFE seat

1000psig(69bar) at 170 $^{\circ}\text{C}(338^{\circ}\text{F})$ with PEEK seat

- Connection Type
 Both Kor-Lok tube fittings
- Handle Type
 Lever, Butterfly and Bar





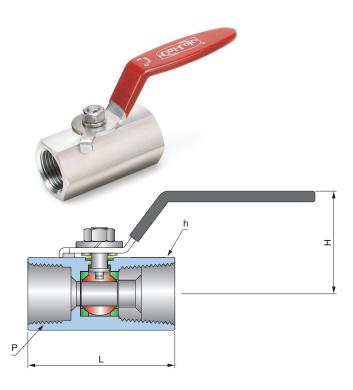
Ordering Information & Dimensions

Part No.		End Connections		Orifice	Dimensions (mm)			
		Inlet Outlet			h(Hex)	L	Н	
	U-04T-	1/4" Kor-Lok			17.46	79.0	26.5	
VB11	U-M06T-	6mm Kor-Lok		5.0				
	U-M08T-	8mm Kor-Lok				82.0		
VB12	U-06T-	3/8" Kor-Lok		7.5	22.22	89.5	32.5	
VDIZ	U-M10T-	10mm Kor-Lok					32.5	
VB13	U-08T-	1/2" Kor-Lok		9.0	26.98	101.6	35.0	
1010	U-M12T-	12mm Kor-Lok			20.90	101.0		
VB14	U-12T-	3/4" Kor-Lok		12.5	31.75	107.5	37.5	
VB15	U-16T-	1" Kor-Lok		16.0	38.10	132.6	44.5	
	U-M25T-	25mm Kor-Lok		10.0			44.5	



VB1F series (Both Female Threads)

- Max Operating Pressure
- 1000psig (69bar) at 38°C(100°F) with PTFE seat
- 2000psig(69bar) at $38^{\circ}C(100^{\circ}F)$ with TFM seat
- Connection Type
 Both NPT or ISO7/1(PT) female threads
- Handle Type
- Lever, Butterfly and Bar



Ordering Information & Dimensions

Part No.		End Con	nections	Orifice	Dimensions (mm)			
		Inlet	Outlet		h(Hex)	L	Н	
VB11	F-04N-	1/4" Ferr	ale NPT	5.0	17.46	40.0	29.0	
VB12	F-06N-	3/8" Fem	ale NPT	7.5	22.22	45.0	35.7	
VB13	F-08N-	1/2" Ferr	ale NPT	9.0	26.98	54.5	38.1	
VB14	F-12N-	3/4" Fem	ale NPT	12.5	31.75	61.0	44.5	
VB15	F-16N-	1" Fema	ale NPT	16.0	38.10	75.0	48.0	

Female ISO7/1 Tapered Threads (PT) are available for all fractional sizes of VB1F series valves. Add "R" as a suffix instead of "N".

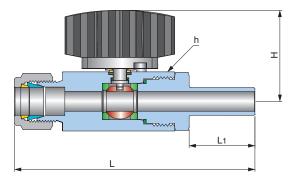


VB1W series

(Pipe or Tube Butt Weld and Kor-Lok Tube Fitting)

- Max Operating Pressure
 1000psig (69bar) at 38°C(100°F) with PTFE seat
- Connection Type
 Pipe Butt or Tube Butt Weld and Uni-Lok Tube Fitting
- Handle Type
- Lever, Butterfly and Bar





Ordering Information & Dimensions

Part No.		End Cor	Orifice	Dimensions (mm)				
		Inlet	Outlet	Onnice	h(Hex)	L	L1	Н
VB13	WSU-08T08T	1/2" Tube	1/2" KorLok	9.0	26.98	109.7	30.0	41.6
VDIS	WSU-15AP08T	15A Pipe	1/2" Kor-Lok	9.0		114.7	35.0	
VB14	WSU-12T12T	3/4" Tube	3/4" Kor-Lok	12.5	31.75	129.2	43.0	44.2
VD14	WSU-20AP12T	20A Pipe	3/4" Kor-Lok	12.5		121.2	35.0	
VB15	WSU-16T16T	1" Tube	1" Kor-Lok	16.0	00 10	137.3	31.0	53.8
	WSU-25AP16T	25A Pipe	1" Kor-Lok	16.0	38.10	146.3	40.0	

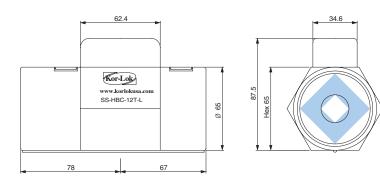
Length of L1 can be adjusted upon the customer's request.

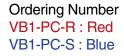


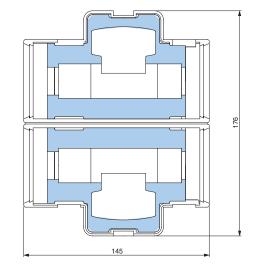
VB1 Protection Cover

Maintain the temperature of fluids, keep handle position and distinguish in-out visually.

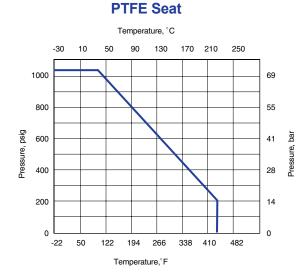
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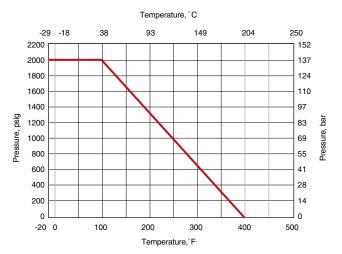




Pressure - Temperature Ratings



TFM Seat









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