













HIGH PRESSURE BAR STOCK BALL VALVES VB6B Series

www.korlokusa.com





Kor-Lok USA

Features

Pressure rating up to

6000psig (413bar) @21°C(70°F) with standard PTFE seats

10000psig (689bar) @21°C(70°F) with optional PEEK seats for CNG application

Temperature rating from -30°C(-22°F) to 180°C (355°F) with standard PCTFE seats

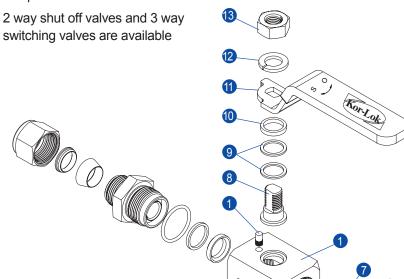
Robust body for high pressure application

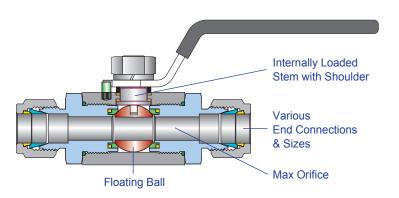
Floating ball design ensures leak proof shut-off at high pressure

Blow-out proof design with internally loaded ball stem with shoulder

Lever handle with PVC coat allows easy and quick operation with low torque and 1/4 turn to open and close

Max orifice minimizes the pressure drop Panel mounting is available as optional





Materials of Construction

No.	Description	Materials
1	Body	316SS
2	Pin	304SS
3	Connector	316SS
4	O-Ring	Viton
5	Ring Seat	PTFE
6	Ball Seat	PCTFE
7	Ball	316SS
8	Stem	316SS
9	Packing	PTFE
10	Bushing	316SS
11	Handle	304SS+PVC
12	Spring Washer	304SS
13	Nut	304SS
14	Front Ferrule	316SS
15	Back Ferrule	316SS
16	Nut	316SS



VB6BC series valves with live loaded compensation ring seats and CNG compatible materials provide a proper sealing at low and high pressure CNG application.

The CNG compatible materials listed in red are standard materials for VB6BC series valves.

6 PEEK: Ball Seats 5 PCTFE: Ring Seats 4 H-NBR: O-rings

To order, add C next to valve series number.

Example: VB6BC2U-12T-SS.



Application

Internally live loaded ball stem to ensure sealing at low and high pressure CNG application .

PEEK and PCTFE seats are compatible with CNG

VB6B series valves are requiring in a wide range onshore and offshore applications to offer a safe and reliable perform.

Sour Environment Services

Kor-Lok valves are comply with NACE MR-0175/ISO 115156 for sour oilfield application or NACE MR-0103 for petroleum refining operations.

To order, add-N to the end of part number.

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.

Hydrostatic shell test to be performed at 1.5 time of the working pressure is available as optional.

How To Order

Kor-Lok VB6B series ball valves are ordered by part number as shown as below.

Cleaning

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

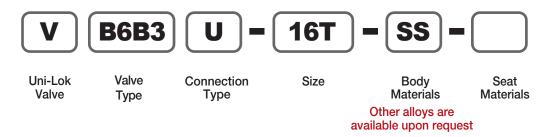
Important Notification

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.

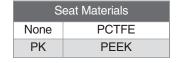
Proper installation, materials compatibility, operation and maintenance of these valves are the responsibility of the user. The total system design must be taken into consideration to ensure optimal performance and safety.

Example: The following part number, **VB6B3U-16T-SS** is designated for VB6B series ball valve with both 1" Un-Lok tube fitting, 316SS, PCTFE seat.



	Valve Type							
B6B	2 Way Type							
B6BC	2 Way Type, CNG Applicaon							
B6BX	3 Way Type							
	Connection Type							
U	Uni-Lok Tube Fitting							
F Female NPT or ISO7/1(PT)								
M Male NPT or ISO7/1(PT)								

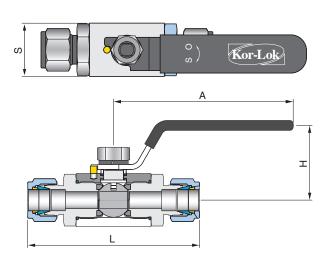
	Connection Type									
Fra	Fractional(Inch) Tube O.D. Designation									
Tube	inc	1/4	3/8	1/2	3/4	1				
O.D.	mn	1 6.35	9.53	12.70	19.05	25.40				
Desig	nato	r 04T	06T	08T	12T	16T				
Pipe	Pipe Size Designation (NPT or ISO7/1-PT)									
Pipe Size 1/4 3/8 1/2						1				
Design	Designator 04N/R 06N/R 08N/R 12N/R 16N/F									

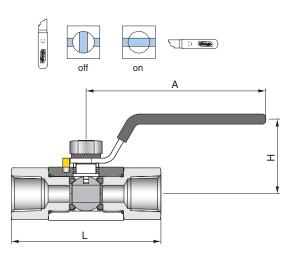




VB6B series

(2 Way, Shut-Off Both Kor-Lok Tube Fittings or Both Female or Male Threads)





Ordering Information & Dimensions

Part Number		End Connection		Orifice	CV	Dimensions (mm)			
Faitiv	i ait Nullibei		Outlet	Office	CV	L	S	Н	А
	U-04T-	1/4" K	or-Lok	4.8	1.2	92.0			
	U-06T-	3/8" Kor-Lok		7.1	3.7	95.0			
	U-08T-	1/2" Kor-Lok 1/4" Female NPT				103.0			
	F-04N-			10.0	7.5	70.0			
VB6B1	F-06N-	3/8" Fen	nale NPT	10.0	7.5	75.0	32.0	45.0	108.0
	F-08N-	1/2" Fen	nale NPT			90.0			
	M-04N-	1/4" Male NPT		7.1	3.7	85.0			
	M-06N-	3/8" Male NPT		9.7	7.2	85.0			
	M-08N-	1/2" Male NPT		10.0	7.5	85.0			
	U-12T-	3/4" Kori-Lok				110.6			
VB6B2	F-08N-	1/2" Fen	nale NPT	12.7	10.0	90.0	40.0	55.0	148.0
VDODZ	F-12N-	3/4" Fen	nale NPT	12.7	10.0	98.0			
	M-12N-	3/4" Ma	ale NPT			105.0			
	U-12T-	3/4" K	or-Lok	19.0	30.0	118.6		00.0	140.0
	U-16T-	1" Ko	r-Lok	13.0	30.0	127.5			
VDCDO	F-12N-	3/4" Fen	nale NPT	15.8	19.0	95.0	50.0		
VB6B3	F-16N-	1" Fema	ale NPT	19.0	30.0	106.0	50.0	60.0	148.0
	M-12N-	3/4" Ma	ale NPT	15.8	19.0	115.0			
	M-16N-	1" Mal	le NPT	19.0	30.0	125.0			

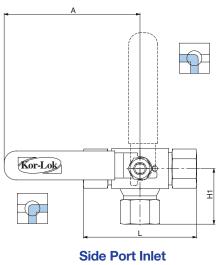
ISO7/1 Tapered Threads (PT) are available for all fractional sizes of VB6B series valves. Add "R" as a suffix instead of "N".

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



VB6BX series

(3 Way, Switching **Kor-Lok Tube Fittings or Female or Male Threads)**



Bottom Port Inlet

1/4 Turn Actuation

1/2 Turn Actuation

Ordering Information & Dimensions

Part Number		End Connection		Orifice	d	Dimensions (mm)				
		Inlet	Outlet	Office	Min.	L	S	Н	H1	А
	U-04T-	1/4" Kor-Lok			4.8	92.0			53.5	
	U-06T-	3/8" Kor-Lok			7.1	95.0			55.0	
VB6BXB1	U-08T-	1/2" K	(or-Lok	10.0	10.0	106.0	32.0	44.9	57.5	108.0
ADODVDI	F-04N-	1/4" Fen	nale NPT			72.0			36.7	
	F-06N-	3/8" Fen	nale NPT			75.0			40.2	
	F-08N-	1/2" Fen	nale NPT			89.0			44.2	
	U-12T-	3/4" K	Cor-Lok		12.7	115.0	40.0	55.0	65.5	148.0
VB6BXB2	F-08N-	1/2" Fen	nale NPT	12.7		93.0			49.7	
	F-12N-	3/4" Fen	nale NPT				102.0			55.2
	U-12T-	3/4" K	(or-Lok		15.8	125.0			70.0	
VB6BXB3	U-16T-	1" Ko	or-Lok	19.0		134.0	50.0	60.0	76.6	148.0
	F-12N-	3/4" Fen	nale NPT		20.0	119.0			56.7	
	F-16N-	1" Fem	ale NPT			129.0			60.8	

Female ISO7/1 Tapered Threads (PT) are available for all fractional sizes of VB6FX series valves. Add "R" as a suffix instead of "N".

Bottom and Side Port Entry Valve Ordering Information

To order side port entry valve, replace B with S

Examples: VB6BXB1U-04T-SS, VB6BXS1U-04T-SS

Kor-Lo

Pressure - Temperature Ratings

Valve		Sealing Materials	;	Pressure Rating	Temperature Rating	
Group	Seat	Stem Packing	End Seal	r ressure rialing		
2 Way						
VB6B1	PCTFE	PTFF	PTFE	6000psig(413bar)	-22°F~266°F (-30°C~130°C)	
VBOBT	PEEK	'''-		10000psig(413bar)	-40°F~446°F (-40°C~230°C)	
VB6B2	PCTFE	PTFE	PTFE	5000psig(344bar)	-22°F~320°F (-30°C~160°C)	
VB6B3	PEEK			10000psig(413bar)	-40°F~410°F (-40°C~210°C)	
3 Way						
VB6BX1	PCTFE	PTFE	Viton	4000psig(275bar)	-22°F~266°F (-30°C~130°C)	
VDODAI	PEEK	'''-		6000psig(413bar)	-40°F~446°F (-40°C~230°C)	
VB6BX2	PCTFE	PTFE	Viton	3000psig(206bar)	-22°F~320°F (-30°C~160°C)	
VB6BX3	PEEK	'''-		4000psig(275bar)	-40°F~410°F (-40°C~210°C)	

Valve Actuation Torque

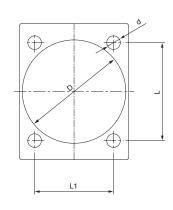
Valve	Pressure (psig)					
Group	0	6000				
2 Way	Torque (Nm)					
VB6B1	3.92	-	6.37			
VB6B2	7.35	10.30	-			
VB6B3	12.26	-				
	0	3000	4000			
3 Way	Torque (Nm)					
VB6BX1	3.92	-	4.90			
VB6BX2	7.35	7.85	-			

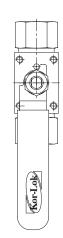
Panel Mounting

Screw hole panel mounting is available with four screw holes on the top of VB6B series valves, M4 \times 6mm depth.

To order, add -M to end of part number.

Disassemble the handle before panel mounting.





Valve		mm		
Group	L	L1	d	D
VB6B1	34	25	4	30
VB6B2	36	29	5	38
VB6B3	40	35	6	38



Kor-Lok Line up

Instrumentation Fittings







- · Tube Fittings
- · Precision Pipe Fittings
- · PTFE Fittings
- Fusible Connectors
- · Hose & Push-On Connectors
- · Dielectric Fittings

Valves







- · VB1 series
- Precision & Clean Ball Valves
- VB2 seriesVB3 series
- Swing-Out Ball Valves
- VB6B series
- Instrumentation Ball Valves
- · VB6F series
- High Pressure Bar Stock Ball Valves High Pressure Forged Ball Valves
- · VB6T series
- Trunnion Ball Valves
- · VP series
- **Plug Valves**
- · VN5 series
- Integral Bonnet Forged Needle Valves
- VN6 series
- High Pressure Bar Stock Needle Valves
- VU6 series
- **Union Bonnet Valves**
- · VMT series
- Metering Valves
- VM series
- Instrumentation Manifolds Valves
- VG series
- Gauge & Gauge Root Valves
- · VL series
- **Bleed Valves**
- · VD series
- **Double Block and Bleed Valves**
- · VC series
- General & High Pressure Relief Valves
- · VR series
- Low & High Pressure Relief Valves Industrial Excess Flow Valves
- · VE series
- T & In-Line Filters
- VF seriesVPR series
- **Pressure Reducing Valves**
- · VBR series
- **Back Pressure Regulators**

Others

- · Seamless & Welded Tubing
- · Condensate Pots

UHP(Ultra High Purity)

Fittings







- · Weld & Metal Face Seal Fittings
- · Cylinder Connectors
- · Pipe &Tube Fittings
- · Flanges

Valves







- · VCD series
- Diaphragm Valves
 Bellows Valves
- VCB seriesVCC series
- Welded Check Valves

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