

**NOTE**

**ABOUT KBL**

Kirloskar Brothers Limited (KBL) is a world class pump manufacturing company with expertise in engineering and manufacture of systems for fluid management. Established in 1888 and incorporated in 1920, KBL is the flagship company of the \$ 2.1 billion Kirloskar Group. As the market leader in fluid management, KBL provides complete fluid management solutions for large infrastructure projects in the areas of water supply, power plants, irrigation, oil & gas and marine & defence. We engineer and manufacture industrial, agriculture & domestic pumps, valves and hydro turbines.

In 2003 KBL acquired SPP Pumps, United Kingdom and established SPP Inc., Atlanta, USA, as a wholly owned subsidiary of SPP, UK and expanded its international presence. In 2007, Kirloskar Brothers International B.V., The Netherlands and Kirloskar Brothers (Thailand) Ltd, a wholly owned subsidiary in Thailand were incorporated. In 2008, KBL incorporated Kirloskar Brothers Europe BV (Kirloskar Pompen BV since June 2014), a joint venture between Kirloskar Brothers International BV and Industrial Pump Group, The Netherlands. In 2010 KBL further consolidated its global position by acquiring Braybar Pumps, South Africa. SPP MENA was established in Egypt in 2012. KBL has a joint venture company with Ebara Corporation, Japan since 1988 for the manufacture of API 610 standard pumps. Kirloskar Corrocoat Private Limited is joint venture cooperation with Corrocoat Ltd., UK since 2006. KBL acquired The Kolhapur Steel Limited in 2007 and Hematic Motors in 2010. In 2014, KBL acquired SyncroFlo. Inc, the largest independent fabricator of commercial and municipal domestic water.

KBL has eight manufacturing facilities in India at Kirloskarvadi, Dewas, Kondhapuri, Shirval, Sanand, Kaniyur, Kolhapur and Karad. In addition, KBL has seven manufacturing and packaging facilities in Egypt, South Africa, Thailand, The Netherlands, United Arab Emirates, United Kingdom and United States of America. KBL has 12,700 channel partners in India and 80 overseas and is supported by best in class network of Authorised Centres and Authorised Refurbishment Centres across the country.

All plants of KBL are ISO 9001, ISO 14001 and OHSAS 18001 standards certified. They apply Total Quality Management tools using European Foundation for Quality Management (EFQM) model. The Kirloskarvadi plant of KBL is a state of art integrated manufacturing facility having one of Asia's largest hydraulic research centre with testing facility up to 5000 kW and 50,000 m<sup>3</sup>/hour.

KBL is the only pump manufacturing company in India and ninth in the world to be accredited with the N and NPT certification by American Society of Mechanical Engineers (ASME).



Scan this code with your smart phone to know more about KBL

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Enriching Lives

**KIRLOSKAR BROTHERS LIMITED**  
A Kirloskar Group Company

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Enriching Lives

**SWING CHECK TYPE REFLUX (NON RETURN) VALVES**

AS PER IS 5312 (PART 1)



**KIRLOSKAR BROTHERS LIMITED**

## SWING CHECK TYPE REFLUX (NON RETURN) VALVES

Widely accepted by Municipal Corporations, Irrigation Authorities, Water Supply Authorities, National Thermal Power Corporation, Nuclear Power Corporation and Industrial users. Designed as per latest editions of IS specifications.

### APPLICATIONS

1. Reflux Valves are used in pipe lines to prevent reverse flow of water and water hammer to the pumps from rising mains
2. Suitable to handle clear water having turbidity upto 5000 ppm and temperature upto 45°C

### SPECIAL FEATURES

1. Swing check type double flanged design.
2. Rigid and sturdy design with minimum head loss across the valve.
3. Perfect interchangeability of components.
4. Assured leak tightness for long service life.

### MATERIAL OF CONSTRUCTION:

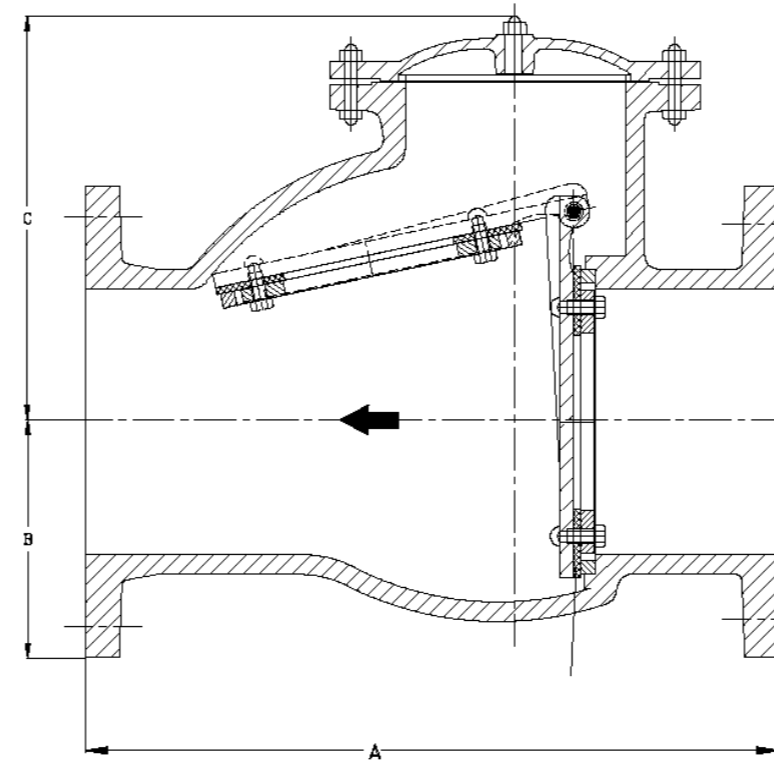
Scope	Body,Cover	Hinge , Disc	Hinge Pin	Body Ring	Disc Face
Standard	Cast Iron	Cast Iron (Upto 300mmSize) Cast steel (Above 350mm Size)	ST.ST.AISI 410	Leaded Gun Metal Leaded Gun Metal	Natural Rubber Leaded Gun Metal
Optional	Ductile Iron Cast Steel	Ductile Iron Cast Steel	ST.ST.AISI 304 ST.ST.AISI 316 High Tensile Brass	ST.ST.AISI 304 ST.ST.AISI 316 ST.ST.AISI 410	ST.ST.AISI 304 ST.ST.AISI 316 ST.ST.AISI 410

Note: For special material of construction ,Contact Design Office.  
\*Protective coating for Body / Disc (Corrocoat / Ebonite / EPDM Lining)as per requirement

### TECHNICAL SPECIFICATION:

Design and Manufacturing Standard	IS:5312 Part -1
Testing Standard	IS:5312 Part -1
Size Range	40 mm to 700mm
Pressure Rating	PN 0.6, PN 1.0, PN 1.6
*Higher Pressure Rating Contact Design Office	

## TYPICAL CROSS SECTIONAL VIEW



### GENERAL DIMENSIONS

Normal Size (DN)	A (Series-10)	A (Series-48)	B Approx.	C Approx.	By Pass Size
40	180	180	60	127	10
50	203	200	60	132	
65	216	240	70	141	
80	241	260	85	148	
100	292	300	100	166	15
125	330	350	110	198	
150	356	400	135	235	
200	495	500	170	296	25
250	622	600	205	351	
300	698	700	215	395	50
350	787	800	255	446	
400	914	900	285	518	
450	978	1000	320	580	50
500	978	1100	380	633	
600	1295	1300	400	690	65
700	1500	1500	430	800	80

Note: For Series -10, Contact Design Office before accepting order  
All dimensions are in mm

## END CONNECTION:

Availability	Flange Drilling Standard
Standard Supply	IS:1538 Table 4 and 6
Optional	BSEN 1092-2 PN 10,PN 16 BS:10- Table D/E/F IS:1538 Table 5 ANSI B 16.1 / 16.5 DIN 2532 (10Bar) IS:6392

### ACCESSORIES (OPTIONAL)

- Support Foot
- Drain Plug
- Dash pot Arrangement(300mm &Above)
- By pass Arrangement
- Lever with Counterweight
- Companion Flange

### HYROSTATIC TEST PRESSURES:

Availability	Size Range	Manufacturing Standard and Pressure Rating (Mpa)	Hydrostatic test Pressures Kg/Cm2 (Mpa)	
			Body	Seat
Standard Supply	40 to 700mm	IS:5312 PN0.6	9.17 (0.9)	6.11 (0.6)
	40 to 700mm	IS:5312 PN1.0	15.29 (1.5)	10.19 (1.0)
	40 to 700mm	IS:5312 PN1.6	24.47 (2.4)	16.31 (1.6)
Optional	Higher Pressure ratings PN:2.0 can be supplied on case to case bases.			