

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 m³/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).



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Enriching Lives

KIRLOSKAR BROTHERS LIMITED
A Kirloskar Group Company

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SWING CHECK TYPE MULTI-DOOR REFLUX (NON RETURN) VALVES

AS PER IS 5312 (PART 2)



KIRLOSKAR BROTHERS LIMITED



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MDRV-08-2014-00

SWING CHECK TYPE MULTIDOOR REFLUX (NON RETURN) VALVES

GENERAL OUT LINE DRAWING & CUT VIEW

END CONNECTION:

- Widely accepted by Municipal Corporations, Irrigation Authorities, Water Supply Authorities, National Thermal Power Corporation and Industrial users.
- Designed as per latest editions of IS 5312 (PART 2) specifications.

APPLICATIONS

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

SALIENT FEATURES

- Rigid and sturdy design with minimum head loss across the valve
- Perfect interchangeability of components
- Seat rings are fitted with special rivets and carefully machined to close tolerances
- Assured leak tightness for long service life
- Quick closing and Non Slam design

MATERIAL OF CONSTRUCTION:

Availability	Body,Door, Diaphragm	Seat Rings	Hinge Pin
Standard	Cast Iron	Leaded Tin Bronze IS-318 GR -LTB2	ST.ST.ASTM A276 Type 410
Optional	Ductile Iron Cast Steel 2% Ni Cl	ST.ST.IS-6603, Gr 12Cr12 ST.ST.IS-1570, Gr 12Cr12 ST.ST.ASTM A240 ST.ST.ASTM A351 Gr CF8 ST.ST.ASTM A351 Gr CF8M Bronze LGM 1982-CC491K	HT.BRASS ST.ST.IS-1570, Gr 12Cr12 ST.ST.IS-6603, Gr 12Cr12 ST.ST.ASTM A276 Type 304 ST.ST.ASTM A276 Type 316 ST.ST.ASTM A276 Type 431 ST.ST.IS-6603-04Cr19Ni9 Duplex ST.ST.ASTM A479 UNS S 31803

Note:For special material of construction ,Contact Design Office.

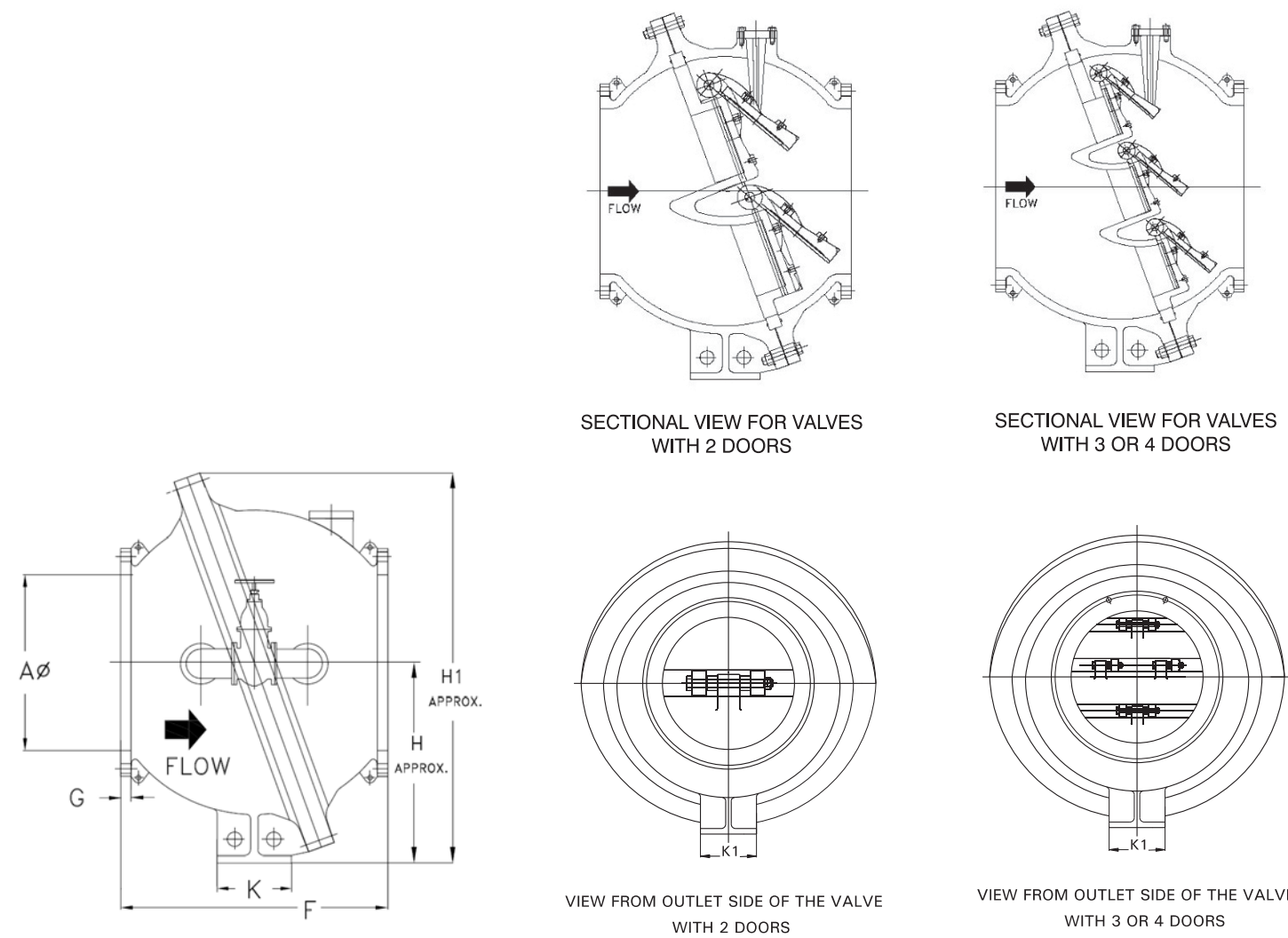
*Protective coating for Body / Door and Diaphragm(Corrocoat / Ebonite Lining) as per requirement

TECHNICAL SPECIFICATION

Design and Manufacturing Standard	IS:5312 Part -2
Testing Standard	IS:5312 Part -2
Size Range	500 mm to 1500mm
Pressure Rating	PN 0.6, PN 1.0, PN 1.6
*For Higher Pressure Ratings PN 2.0 and above Contact Design Office.	

ACCESSORIES

- Bypass Arrangement
- Companion Flange



GENERAL OUT LINE DIMENSIONS

Size (A)	F	H	H1	K	K1	ByPass Size	No of Doors
500	815	600	1150	200	250	80	2
600	940	685	1335	250	250	80	2
700	1000	750	1445	300	375	100	2
750	1045	750	1445	300	375	100	2
800	1118	810	1555	300	375	100	2
900	1250	860	1660	300	375	100	3
1000	1250	915	1730	300	375	100	3
1100	1396	1080	2070	400	450	100	4
1200	1500	1175	2250	400	450	100	4
1500	2000	1400	2700	580	580	150	4

All dimensions are in mm except specified Bypass Against Requirement.

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
	IS:6392

HYDROSTATIC TEST PRESSURES

Availability	Size Range	Testing Standard and Pressure Rating (Mpa)	Hydrostatic test Pressures Kg/Cm2 (Mpa)	
			Body	Seat
	500 to 1500mm	IS:5312(Part 2) PN0.6	9.17 (0.9)	6.11 (0.6)
Standard Supply	500 to 1500mm	IS:5312(Part 2) PN1.0	15.29 (1.5)	10.19 (1.0)
	500 to 1500mm	IS:5312(Part 2) PN1.6	24.47 (2.4)	16.31 (1.6)
Optional	Higher Pressure ratings Above PN:2.0 can be supplied on case to case bases.			