



Enriching Lives

CAST STEEL CHECK VALVES

AS PER BS : 1868



KIRLOSKAR BROTHERS LIMITED

A Kirloskar Group Company

CAST STEEL CHECK VALVE (SWING TYPE)

Widely accepted by Water Supply Authorities, National Thermal Power Corporation, Nuclear Power Corporation and Industrial users.

Designed as per latest edition of BS : 1868 specifications.

Applications :

- Suitable for Slam less Uni-direction operation
- Used for handling naphtha, naphtha derivatives in oil refineries
- Suitable for handling water, steam, air, gas or liquid with high pressure / temperature applications
- Suitable for wide range of working conditions of temperature and pressure ratings

Salient Constructional Features :

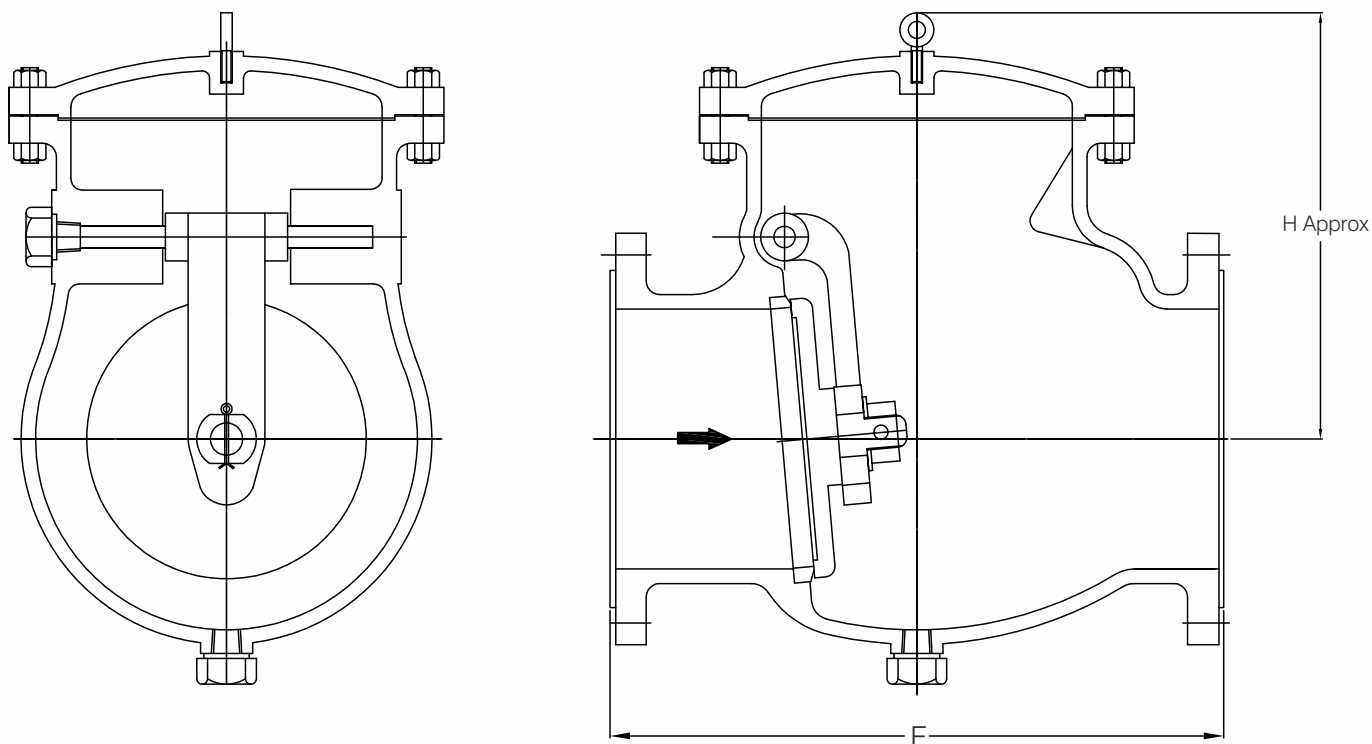
- **Body:**
 - Double flanged and strong enough to withstand working pressure of wide range of temperatures
 - Flanges with raised faces and serrated finish
 - Suitable for Butt welding ends as per requirement
- **Hinge**
 - Hinge is separate from Disc , giving complete flexibility to disc ensuring leak tight performance
- **Body Seat Rings:**
 - Renewable, screwed or welded, accurately machined and lapped to smooth finish, fitted in body
- **Disc**
 - Disc is airofin shaped for minimum loss of head
 - Rigid sturdy, swing type design with minimum head loss across the valve
 - Long service life and leak tightness
 - Quick replacement fitting of disc / hinge design

Material of Construction :

Scope	Body, Cover, Disc, Hinge	Body / Disc Seat Ring	Hinge Pin	Body / Bonnet Fasteners	Gasket
Standard	CS ASTM A 216 Gr.WCB	WCB + 13%Cr.Steel	SS AISI 410	ASTM A 193 Gr.B7 / A194 Gr.2H	Spiral wound SS304 + Graphoil
Optional	SS ASTM A 351 Gr.CF8 / SS ASTM A 351 Gr.CF8M	SS ASTM A 351 Gr.CF8 (Intergral) / SS ASTM A 351 Gr.CF8M (Intergral)	SS AISI 304 / SS AISI 316		Spiral wound SS316 + Graphoil

Note : 1. For special material of construction, contact Design Office.

General Outline Drawing :



General Outline Dimensions :

Class 150

Valve Size	50	65	80	100	125	150	200	250	300	350	400	450	500	600	650	700	750	800	900
F	203	216	241	292	330	356	495	622	698	787	864	978	978	1295	1295	1448	1524	1594	1965
H	170	210	220	240	290	350	380	535	550	570	580	780	780	870	915	980	1075	1075	1180

Class 300

Valve Size	50	65	80	100	125	150	200	250	300	350	400	450	500	600	650	700	750
F	267	292	318	356	400	444	533	622	711	838	864	978	1016	1346	1346	1499	1594
H	210	230	245	260	290	325	360	480	540	615	615	780	870	915	980	1075	980

Class 600

Valve Size	50	65	80	100	125	150	200	250	300	350	400	450	500
F	292	330	356	432	508	559	660	787	838	889	991	1092	1194
H	210	230	245	260	290	325	360	480	540	585	615	665	715

Note: 1. All Dimensions are in 'mm' otherwise stated.

Accessories :

- Lever with Counter weight
- Dash Pot Arrangement
- Butt Weld End Connection
- Bypass arrangement
- Companion Flanges and Fasteners

Technical Specifications :

Design and Manufacturing Standard	BS 1868
Testing Standard	EN 12266-1
Size Range	50mm - 900mm
Pressure Rating	CL-150 / 300 / 600.
Pressure temperature Ratings	ASME B16.34
Face-to-Face / End-to-End Dimension	ASME B16.10

Note: 1. For Higher Pressure Rating contact Design Office.

End Connection :

Scope	Flange Drilling Standard
Standard Supply	ANSI B 16.5 CL-150 / 300 / 600

Note: 1. For valves in sizes larger than 24" (600 mm), the flange drilling shall be as per ASME B16.47
2. Other flange drilling standards are available as per requirement.

Hydrostatic Test Pressures :

Pressure Rating	Body (Kg/Cm2)	Seat (Kg/Cm2)
Class- 150	30	22
Class- 300	79	58
Class- 600	158	116

Optional : 1. For Higher Pressure ratings can be supplied on case to case bases.

Notes :

Notes :

OUR GLOBAL PRESENCE



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. KBL, a market leader, 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 and 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 to expand 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 B.V. (Kirloskar Pompen B.V. since June 2014), a joint venture between Kirloskar International B.V. 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. In 2014, KBL acquired SyncroFlo Inc., the largest independent fabricator of commercial and municipal domestic water booster pumps.

To further strengthen its global position, in 2015, Kirloskar Pompen B.V. acquired Rodelta Pumps International, The Netherlands.

KBL has joint venture cooperation with Ebara, Japan since 1988 for the manufacture of API 610 standard pumps. Kirloskar Corrocoat Private Limited is a joint venture cooperation with Corrocoat, UK since 2006. KBL acquired The Kolhapur Steel Limited in 2007 and Hematic Motors in 2010.

KBL has eight manufacturing facilities in India at Kirloskarvadi, Dewas, Kondhapuri, Shirwal, Sanand, Kaniyur, Kolhapur and Karad. In addition, KBL has global 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 the manufacturing facilities at KBL are certified for ISO 9001, ISO 14001, ISO 50001, BS OHSAS 18001 and SA8000. In addition, the Kirloskarvadi plant is also certified for N & NPT Stamp. KBL's corporate office in Pune is certified for ISO 9001 & Sa8000.

The factories deploy Total Quality Management tools using European Foundation for Quality Management (EFQM) model.

The Kirloskarvadi plant of KBL is a state-of-the-art integrated manufacturing facility having Asia's largest hydraulic research centre with testing facility upto 5000 kW and 50,000 m³/hr.

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

Pumps | Valves | Hydro Turbines | Turnkey Projects

Water Resource Management | Irrigation | Power | Industry | Oil & Gas | Marine & Defence | Building & Construction | Distribution (Small Pumps) | Valves | Customer Service & Spares

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OUR COMPANIES



United Kingdom



U.S.A.



South Africa



India



The Netherlands

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