



Enriching Lives

CAST STEEL CHECK VALVES

AS PER BS: 1868



KIRLOSKAR BROTHERS LIMITED

Established 1888

A Kirloskar Group Company

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ABOUT KBL

Kirloskar Brothers Limited (KBL) is a world-class pump manufacturing company with expertise in the engineering and manufacturing of fluid management systems. Established in 1888 and incorporated in 1920, KBL is the mother company of the Kirloskar Group. KBL provides complete fluid management solutions for large infrastructure projects in the areas of water supply, power plants, irrigation, building & construction, oil & gas industry, and marine & defence. KBL manufactures industrial, agriculture and domestic pumps, valves and hydro-turbines.

Over the years, KBL has developed innovative products, which have enabled it to carve a niche globally. It is a global conglomerate and is equipped with the best technologies in the world. It is also India's largest centrifugal pump manufacturer with nine manufacturing facilities in India along with other international subsidiaries and operations in the Netherlands, South Africa, Thailand, the United Kingdom, and the United States of America. KBL has over 16,000 channel partners globally and is supported by best-in-class Pan-India network of authorised service and refurbishment centres.

KBL is the first Indian pump manufacturing company to be certified for Integrated Management System, (ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 50001:2018).

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

Indian subsidiaries and joint ventures

- Kirloskar Ebara Pumps Limited (KEPL) manufactures API, Non-API pumps, and steam turbines.
- Kirloskar Corrocoat Private Limited (KCPL) is the leading solution provider in long-term corrosion protection and energy conversion.

- Karad Projects and Motors Limited (KPML) is a motor manufacturing company with expertise in the manufacture of stampings, stators, rotors, AC rotating machines, aluminium die-cast connecting rods and pump assemblies. It also houses a notable foundry facility specialising in the manufacture of a wide range of carbon steel, alloy steel, stainless steel and cast iron castings for industries such as pumps, valves, turbines, shipping, heavy engineering applications and more.

International, subsidiaries and joint ventures

- SPP Pumps Limited, United Kingdom is a 140-year-old leading pumps manufacturer of centrifugal pumps and associated systems, a global principal in the design, supply and servicing of pumps, renowned fire pump packages and high-quality equipment for a wide range of applications and industry sectors. It is the largest pump manufacturer in the United Kingdom.
- SyncroFlo, Inc., United States of America manufactures pre-assembled pumping systems and provides solutions for HVAC systems, fire protection and turf irrigation.
- Rodelta Pumps International is a Dutch pump manufacturing company that offers products for flood control, irrigation, drinking water, wastewater, pulp & paper, power, chemical, oil & gas and general industries.
- Kirloskar Brothers Thailand Limited (KBTL), Bangkok is the Thailand Board of Investment (BOI) promoted headquarters and assembly plant of the KBL Group companies for the ASEAN and East Asia regions.
- Braybar Pumps (Pty) Limited, Republic of South Africa is engaged in the manufacturing and sales of high-head multi-stage pumps, rubber-lined slurry pumps and metal-lined bearings.

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



Global Headquarter:
"Yamuna", Baner, Pune.



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

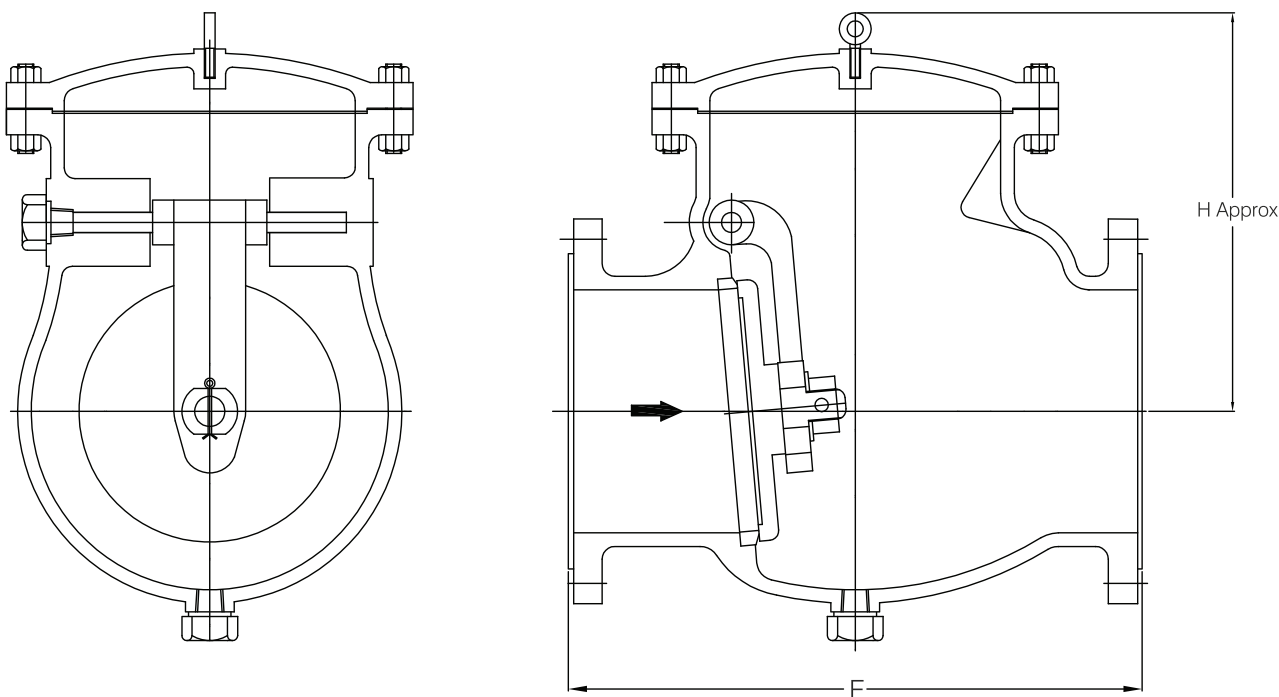
- Disc is airofin shaped for minimum loss of head
- Rigid sturdy, swing type design with minimum head loss across the valve
- Long service life and leak tightness
- Quick replacement fitting of disc / hinge design

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.

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REGISTERED OFFICE & GLOBAL HEADQUARTERS

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OUR COMPANIES



BRAYBAR PUMPS (PTY) LTD
Republic of South Africa



KARAD PROJECTS AND MOTORS LIMITED
India



KIRLOSKAR BROTHERS (THAILAND) LIMITED
Thailand



KIRLOSKAR CORROCOAT PRIVATE LIMITED
India



KIRLOSKAR EBARA PUMPS LIMITED
India



RODELTA PUMPS INTERNATIONAL B.V.
The Netherlands



SPP PUMPS LIMITED
United Kingdom



SYNCROFLO, INC.
U.S.A.