Enriching Lives

CAST STEEL GLOBE VALVES

AS PER BS: 1873

KIRLOSKAR BROTHERS LIMITED
Established 1888
A Kirloskar Group Company

NOTES

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 manufacturespre-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 I Valves I Hydro Turbines I Turnkey Projects

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

Global Headquarter: "Yamuna", Baner, Pune.

CAST STEEL **GLOBE VALVE**

Widely accepted by Water supply authorities, National Thermal Power Corporation, Nuclear Power Corporation and Industrial users. Designed as per latest edition of BS : 1873 specifications.

Applications:

- Widely used for Naptha and Naptha derivatives in oil refineries, petroleum and chemical industries.
- These valves can also be used tor handling water, steam, air, gas or liquid with high pressure/ temperature applications
- Mainly used to regulate or stop the flow of fluid.

Salient Constructional Features:

Body:

- Valve body is designed to provide maximum stream line flow to minimize pressure drop as well as corrosive and erosive effects.
- The valves have sufficient wall thickness and sturdiness to withstand distortion caused by fluid pressure under ordinary conditions and also to withstand undue stresses on any working parts.
- Body is strong enough to withstand specified conditions of pressure and temperature.

Bonnet

- Bonnet is designed in circular form appropriate to valve body and operational requirements.
- Yoke type bonnet is bolted to body and designed to withstand same temperature and pressure as that of body.

Stem

- Outside screw, with integral button head at one end with ACME threads.
- Stem is of one piece construction, having sufficient length to ensure that hand wheel stands well clear above yoke bush when the valve is in closed position.
- In addition disc nut is provided with back seat bushing collar in order that the valves can be re-packed under pressure.

Stuffing Box

- Stuffing box of the valve is deep enough to ensure tightness and smooth operation of the valve at maximum differential pressure.
- A lantern ring is provided for all sizes of Class 300 and Class 600.

Body Seat Rings

- Accurately machined to close tolerances to match with body recesses.

Disc

- Loose plug type disc arrangement secured to stem by disc nut.

Hand Wheel

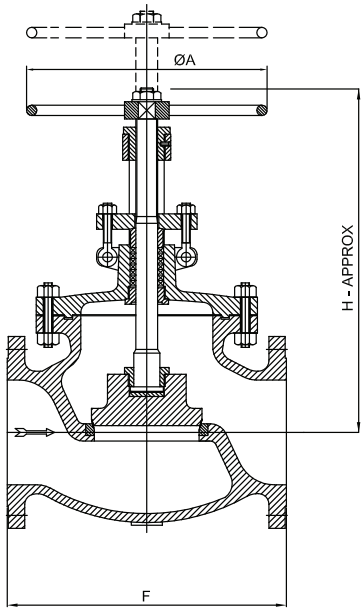
- Sturdy, specially designed for firm grip.

Material Of Construction:

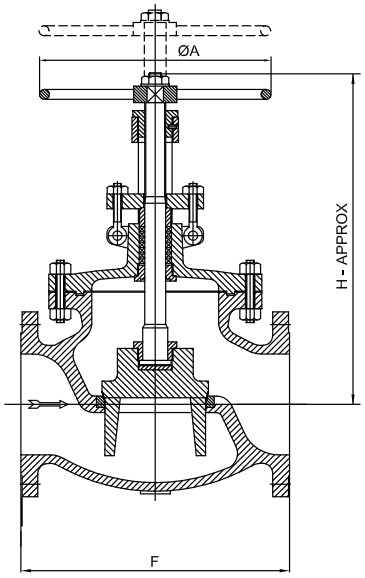
Scope	Body, Bonnet	Body (Seat) Ring	Spindle	Plug	Hand Wheel	Body / Bonnet Fasteners	Gasket
Standard	CS ASTM A 216 Gr.WCB	CS ASTM A515 Gr.70 + 13% Cr. H.F.	SS AISI 410	CS ASTM A216 Gr.WCB +13%Cr. H.F.	CS ASTM A 216 Gr.WCB	ASTM A 193 Gr.B7 / A194 Gr.2H	Spiral wound SS 304 + Graphoil
Optional	SS ASTM A 351 Gr.CF8 / Gr.CF8M	SS ASTM A 351 Gr.CF8/ Gr.CF8M (Intergral)	SS AISI 304 / SS AISI 316	SS ASIM A351 Gr. CFS/ CF8M	SG IRON CARBON STEEL		Spiral wound SS 316 + Graphoil

Note : 1. For special material of construction, Contact Design Office.
2. H.F.: Hard Face.

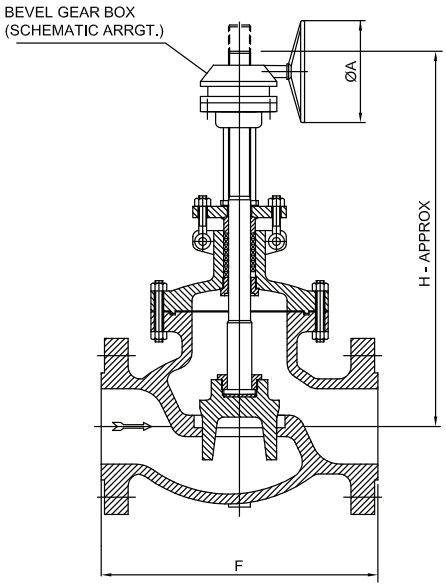
General Outline Drawing:
CLASS 150



Size Range
50 mm to 100 mm



Size Range
150 mm to 250 mm



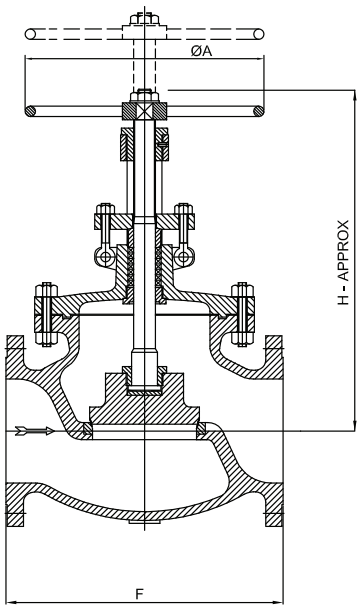
Size Range
300 mm

General Outline Dimensions:
CLASS 150

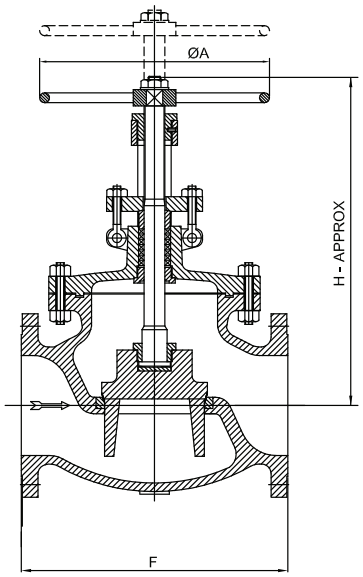
Valve Size	50	65	80	100	150	200	250	300
F	203	216	241	292	406	495	622	698
H Approx	290	375	385	430	505	507	585	850
ØA	200	200	250	250	350	450	450	-

Note: 1. All Dimensions are in 'mm' otherwise stated.
2. Depend on Make and Model of Gear Box.

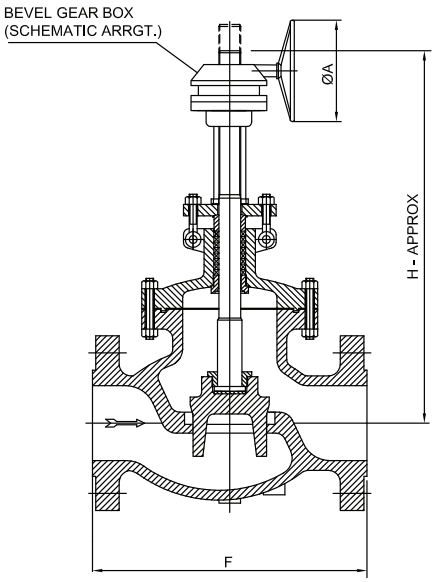
General Outline Drawing:
CLASS 300



Size Range
50 mm to 100 mm



Size Range
150 mm and 200 mm



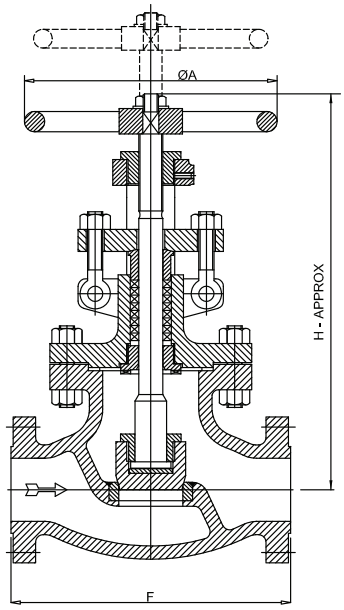
Size Range
250 mm and 300 mm

General Outline Dimensions:
CLASS 300

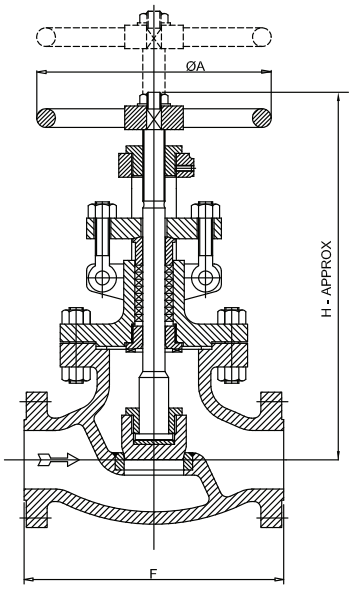
Valve Size	50	65	80	100	150	200	250	300
F	267	292	318	356	444	559	622	711
H Approx	295	390	405	510	530	665	950	1300
ØA	200	200	250	300	350	450	-	-

Note: 1. All Dimensions are in 'mm' otherwise stated.
2. Depend on Make and Model of Gear Box.

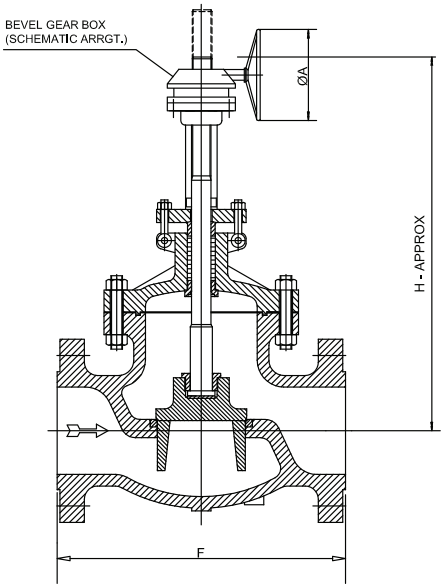
General Outline Drawing:
CLASS 600



Size Range
50 mm to 80 mm



Size Range
100 mm and 150 mm



Size Range
200 mm to 300 mm

General Outline Dimensions:
CLASS 600

Valve Size	50	65	80	100	150	200	250	300
F	292	330	356	432	559	660	787	838
H Approx	310	400	420	510	690	870	950	1020
ØA	250	250	250	350	350	-	-	-

Note: 1. All Dimensions are in 'mm' otherwise stated.
2. Depend on Make and Model of Gear Box.

Accessories:

- Butt Weld End Connection
- Bypass arrangement
- Companion Flanges and Fasteners
- Locking Arrangement
- Chain and Chain Wheel Arrangement.
- Extension Shafting and Head Stock Arrangement.
- Electrical Actuator
- Bevel Gear Box

Technical Specifications:

Design and Manufacturing Standard	BS 1873
Testing Standard	BS EN 12266
Size Range	50 mm - 300 mm
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 valve sizes and 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	Hydrostatic Body (Kg/Cm^2)	Hydrostatic Seat (Kg/Cm^2)	Air Seat (Kg/Cm^2)
Class- 150	30	22	7
Class- 300	79	58	7
Class- 600	158	116	7

NOTES

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KIRLOSKAR BROTHERS LIMITED

Established 1888
A Kirloskar Group Company

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Website: www.kirloskarpumps.com I **CIN No.** L29113PN1920PLC000670

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.

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