



Enriching Lives

SLUICE VALVE

AS PER IS: 14846



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 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.



SLUICE VALVE

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. Certified by Bureau of Indian Standards for Non rising spindle Sluice Valves (ISi Marking)

Applications:

- ▶ Suitable for Isolation duty (Full Open / Full Close)
- ▶ Clear water having turbidity up to 5000 ppm and temperature up to 45°C
- ▶ Other fluids with maximum pressure/ temperature conditions within the scope of IS: 14846
- ▶ Valves can be designed specialty with suitable material of construction for temperature up to 180 centigrade with limited pressure condition

Salient Constructional Features

- ▶ Rigid and sturdy design with minimum loss of head across the valve
- ▶ Perfect interchangeability of components
- ▶ Perfect machining and Press fitting of body and wedge rings
- ▶ Excellent finish on spindle threads resulting in low friction and smooth operation of valves
- ▶ Assured leak tightness for long service life
- ▶ Perfect machining and Press fitting of body and wedge rings

Accessories

- ▶ Cap Top
- ▶ Position Indicator
- ▶ Repacking (Back Seat) arrangement
- ▶ Spur/ Bevel / Worm gear arrangement
- ▶ Thrust bearing arrangement (200 NB and above sizes)
- ▶ Channel and Shoe arrangement (Renewable) (300 NB and above sizes)
- ▶ Locking arrangement / Chain Padlock arrangement
- ▶ Extension shafting and head stock
- ▶ Electric Actuator
- ▶ Drain plug
- ▶ Chain and Chain Wheel arrangement
- ▶ Pneumatic Cylinder actuator
- ▶ Hydraulic Cylinder actuator
- ▶ Limit switch arrangement
- ▶ Companion Flange
- ▶ Glandless Design
- ▶ By pass Arrangement (300 NB and above sizes)

Hydrostatic Test Pressures:

Scope	Size Range	Manufacturing Standard and Pressure Rating (Mpa)	Hydrostatic test Pressures Kg /Cm2 (Mpa)	
			Body	Se
Standard Supply	40 mm to 1800 mm	IS: 14846 PN 1.0	15.3 (1.5)	10.2 (1.0)
	40 mm to 1800 mm	IS: 14846 PN 1.6	24.47 (2.4)	16.32 (1.6)
Optional	For Higher Pressure ratings PN: 2.0 / 2.5 / 3.0 can be supplied on case to case basis.			

Material of Construction:

Scope	Standard Supply	Optional
Body / Wedge / Dome	Leaded Tin Bronze as per IS: 318 Gr. LTB - 2	SG. Iron as per IS: 1865, 2% NiCl, ASTM A 439 Type D2, Cast Steel as per IS: 1030 / ASTM A 216 Gr WCB
Body / Wedge / Rings	St. Steel as per IS: 6603 Gr. 12Cr12	SS ASTM A276 Type 304 / 316 / 410 / 304L I 316L / SS IS 6603
Spindle	Leaded Tin Bronze as per IS: 318 Gr. LTB - 2	High Tensile Brass; St. Steel as per IS: 1570; IS: 6603; ASTM A 276, BS: 970
Stem Nut		High Tensile Brass

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

2. Valves with Corrocoat Coating for Potable, Sewage, Corrosive fluids application can also be supplied on request.

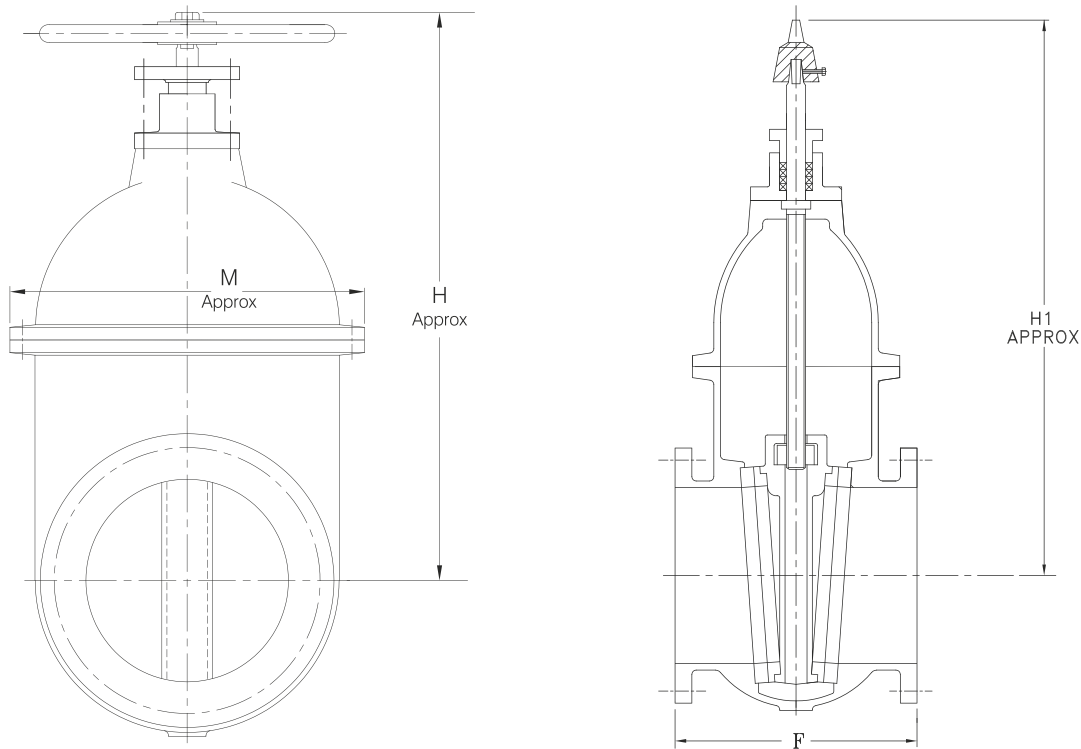
End Connection:

Scope	Flange Drilling Standard
Standard Supply	IS: 1538 - Table 4 and 6
Optional	BS : 10 - Table D / E / F
	BS EN 1092.2 PN10, PN16
	IS: 1538 Table 5
	ANSI B 16.1 / 16.5
	DIN 2532 (ND 10)
	IS: 6392

NON RISING SPINDLE SLUICE VALVE

General Outline Drawings:

40 mm to 600 mm NRSSV



General Outline Dimensions:

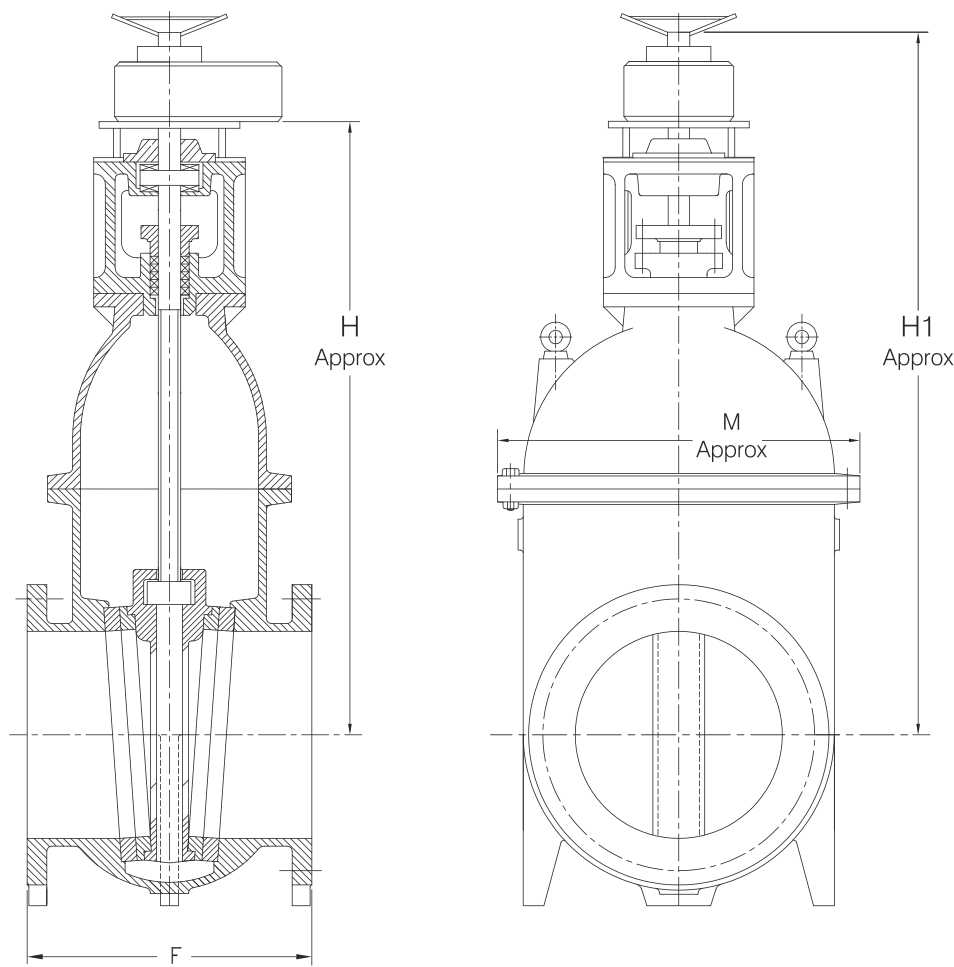
40 mm to 600 mm NRSSV

Rating	Valve Size	F	M	H	H1
PN 1.0 and PN 1.6	40	165	124	290	350
	50	178	143	350	410
	65	190	214	365	425
	80	203	218	405	460
	100	229	144	460	550
	125	254	280	515	575
	150	267	312	555	630
	200	292	444	720	775
	250	330	482	810	875
	300	356	574	910	1010
	350	381	640	910	1050
	400	406	680	986	1105
	450	432	770	1193	1267
	500	457	860	1217	1337
	600	508	940	1400	1479

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

General Outline Drawings:

700 mm to 1800 mm NRSSV



General Outline Dimensions:

700 mm to 1800 mm NRSSV

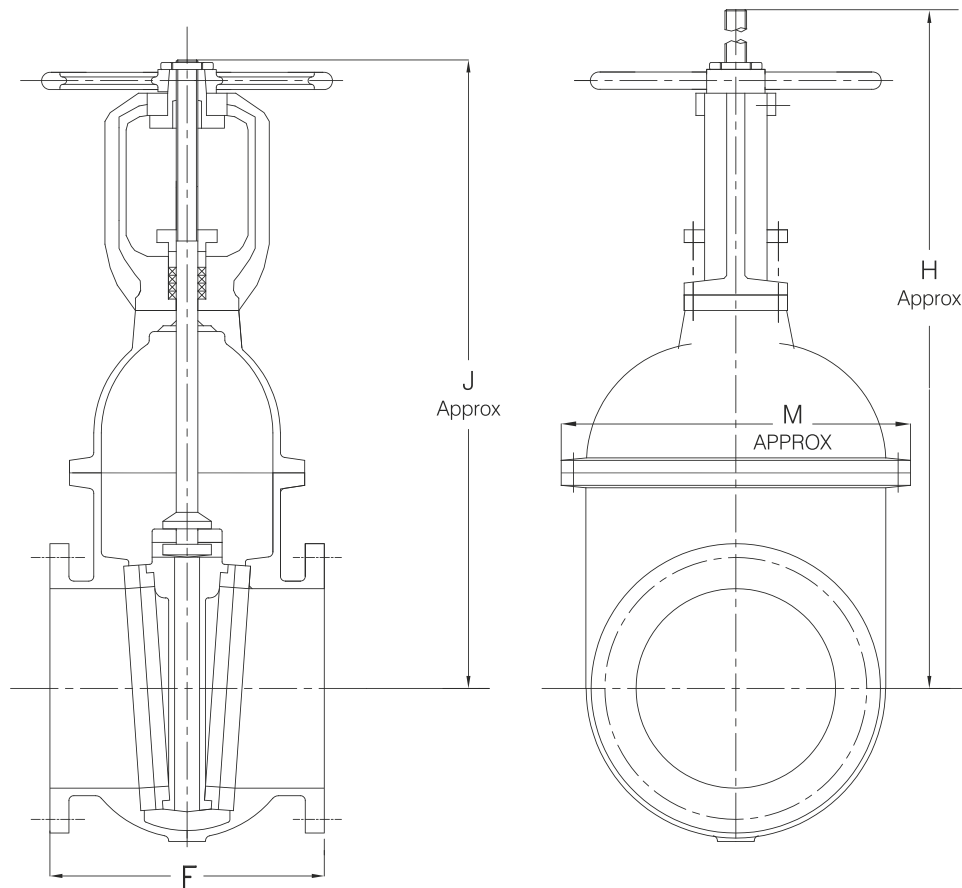
Rating	Valve Size	F	M	M For PN 1.6	H	H1(With Gear Box)
PN 1.0 and PN 1.6	700	610	1120	1150	1850	2170
	750	610	1170	1240	2070	2400
	800	660	1220	1264	2100	2450
	900	711	1330	1330	2280	2650
	1000	811	1490	1490	2440	2800
	1100	811	1610	1660	2690	3050
	1200	810	1670	1670	2690	3050
PN 0.6 / 1.0 I 1.6	1300	1016	1837	1937	2950	3450
	1500	1118	2152	2152	3530	4000
	1800	1118	2537	2537	4230	4900

Note: 1. All dimensions are in ‘mm’ otherwise stated.

RISING SPINDLE GATE VALVE

General Outline Drawings:

40 mm to 300 mm RSGV



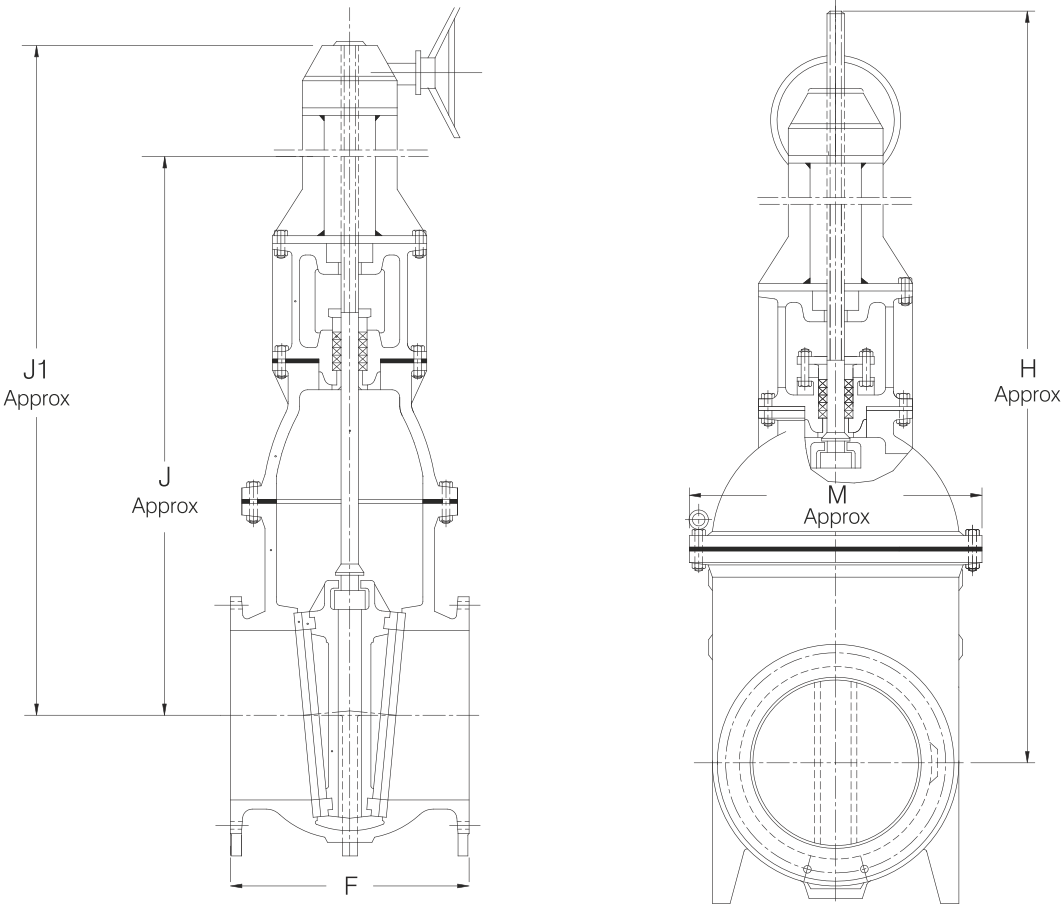
General Outline Dimensions:

40 mm to 300 mm RSGV

Rating	Valve Size	F	M	J - Shut	H - Open
PN 1.0 and PN 1.6	40	165	124	125	430
	50	178	143	135	510
	65	190	214	165	537
	80	203	218	195	553
	100	229	244	230	675
	125	254	280	265	785
	150	267	312	300	904
	200	292	444	325	1177
	250	330	482	355	1366
	300	356	574	390	1566

General Outline Drawings:

350 mm to 1500 mm RSGV



General Outline Dimensions:

350 mm to 1500 mm RSGV

Rating	Valve Size	F	M	J- shut	J1- Shut (With Gear Box)	H - Open
PN 1.0 and PN 1.6	350	381	640	1320	1550	1750
	400	406	680	1450	1700	1860
	450	432	770	1600	1850	2120
	500	457	860	1715	1910	2285
	600	508	940	1955	2200	2625
	700	610	1120	2647	2750	3371
	750	610	1170	2830	3000	3670
	800	660	1220	2640	3000	3475
	900	711	1330	3035	3300	3970
	1000	811	1444	3370	3800	4570
	1100	811	1610	3750	4000	4590
	1200	810	1670	3900	3900	5100
PN 0.6 / 1.0 1.6	1500	1118	2152	5400	5400	6540

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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.