



Enriching Lives

# KNIFE GATE VALVE

AS PER MSS SP : 81



**KIRLOSKAR BROTHERS LIMITED**

A Kirloskar Group Company

## KNIFE GATE VALVE (Unidirectional)

Widely accepted by Municipal Corporations, Irrigation Authorities, Water Supply Authorities, Power Generation, Pulp and Paper, Cement and Industrial users

Designed as per latest editions of Specifications

### Applications :

- Suitable for corrosive and Abrasive services
- Ideal for Application in Cement, Pulp and Paper, Aluminum, Fertilizer, Sugar, Coal and Mining, Power Generation, Ash ...Handling, Iron and Steel, Sewage and Waste water treatment

### Salient Constructional Features :

- Knife Gate Valves features a single piece full port type
- Body is very robust in construction to cater to the extreme demanding applications
- Ensure greater flow capacity and minimal pressure drop
- Valves incorporate gates made of stainless steel and other superior alloys
- Super ground super surface finish on both sides to assure positive shutoff
- The machined and highly finished gland pockets ensure a leak proof gland packing and perfect stem seal
- Self cleaning, Knife(Sharp) edge Precision machined seating contour for smooth operation and leak tight sealing

### Accessories :

- Electric Actuator
- Pneumatic Cylinder Actuator
- Extension spindle arrangement
- Hydraulic Cylinder Actuator
- Chain Padlock Arrangement
- Limit switch arrangement
- Proximity Switch arrangement
- Companion Flange

### Hydrostatic Test Pressures Kg/Cm<sup>2</sup> :

15.5 Kg/Cm<sup>2</sup>

Scope	Size Range	Manufacturing Standard and Pressure Rating	Hydrostatic test Pressures Kg/Cm <sup>2</sup> :	
			Body	Seat
Standard Supply	50 mm-1000mm	PN 10 as per MSS SP81	15.5 kg/cm <sup>2</sup>	2.8 Kg/Cm <sup>2</sup>
Optional	For Higher Pressure ratings can be supplied on case to case basis.			

## Material of Construction :

Scope	Body/Gland	Gate	Stem	Gland Packing	Seat
Standard	CI IS:210 Gr. FG260	SS 304	SS ASTM A276 Type 410	PTFE	EPDM
Optional	CI IS:210 GR FG260, CS ASTM A216 Gr WCB/ SS ASTM A351 Gr CF8/CF8M CF3/CF3M	MS, SS 316	SS ASTM A276 Type 304/316/431	PTFE	St.St.304 316  Buna -N Viton

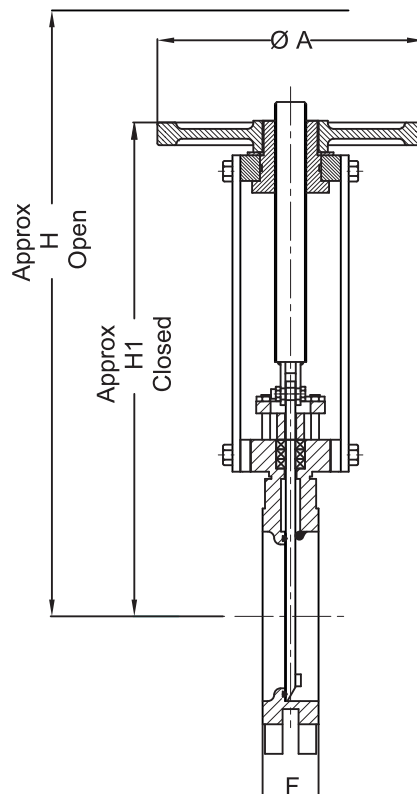
Note : 1. For special material of construction ,Contact Design Office.  
2. Protective coating for Body as per requirement.

## Technical Specifications :

Design and Manufacturing Standard	MSS SP 81
Testing Standard	MSS SP 81
Size Range	50 mm - 1000 mm
Pressure Rating	PN 10

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

## General Outline Drawing :



## General Outline Dimensions :

Size	F	ØA	H1 (Approx)	H (Approx)
50	48	203	294	347
65	48	203	330	400
80	51	203	350	437
100	51	203	379	480
125	57	270	422	548
150	57	270	466	615
200	70	270	620	878
250	70	390	696	948
300	76	390	798	1100
350	76	500	896	1238
400	89	500	982	1374
450	89	500	1070	1518
500	114	500	1160	1655
600	114	500	1432	2051
1000 Fabricated	190	-	3050	3810

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

## 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, PN6 / PN10 / PN16 IS:1538 Table 5 ANSI B 16.1 / 16.5 , DIN 2532 (ND 10) IS:6392





# 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 m<sup>3</sup>/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).

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## 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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## KIRLOSKAR BROTHERS LIMITED

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#### OUR COMPANIES



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