



HP SLURRY KNIFE GATE VALVE



CATALOGUE MODEL
SLB300HP

- Bi – Directional Sealing
- High Pressure design
- Designed for Slurry
- Self Cleaning Type
- Prevent media buildup

SLB300HP Slurry Knife Gate Valve

Precision Flow Control Solutions



Product Overview

The **SLB300HP** is designed for High Pressure Slurry applications with bi-directional seal. Twin elastomer sleeves and push-through gate design facilitate self-cleaning and prevent media build up.

Product Features

- **Durable Body Design:** Cast Steel body offered in a two-piece bolted flange style
- **Full Bore Flow:** When fully open, the valve is full bore, provides high flow rates with low pressure drop
- **Protective Stem Cover:** Protective stem cover is standard in all models, increasing cycle life in hazardous environments.
- **Sleeve Sealing:** Fully encapsulated sleeve reinforcement and memory assist, guaranteeing bidirectional zero leakage performance
- **Media Shielding:** In the open position, the energized sleeves shield all metal components from direct contact with the flowing media.
- **Gate Options:** Gate available in a wide range of corrosion resistant alloys to suit the pressure rating and application
- **Unobstructed Flow:** The design provides unobstructed flow path, extending sleeve life and minimizing pressure drop across valve
- **Easy Maintenance:** Flanged two-piece bolted body allows for easy maintenance and is drilled and tapped to country standards
- **Flush Options:** Optional bottom flush plate with tapped ports, allows for safe discharge of media and easy flush water connection.
- **Pipeline Compression:** When mounted between pipeline flanges, sleeves are compressed. Thus creating a tight sealing and allowing the Gate to travel smoothly during Opening & Closing
- **Split Superstructure:** Split superstructure helps in removal of complete Gate assembly only by removing pneumatic cylinder fasteners

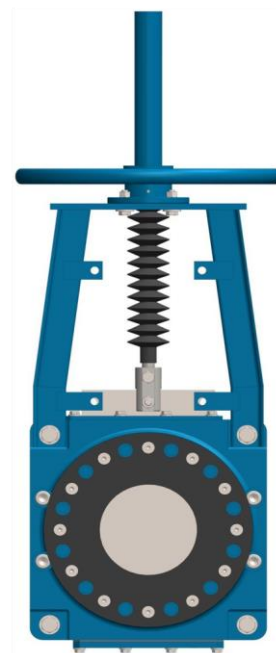
Target Industries

Mining & Metals

Power

Alumina

Chemical



Size Range	DN80 – DN600	Body*	WCB Cast Steel
Body Style	Two Piece Bolted	Gate & Stem*	SS316/2205/17-4PH
End Connection	Wafer Flanged	Seat*	Natural Rubber
Pressure Rating	CWP-20 /CWP50	Drilling Std	ASME 150# & 300#
Design, Testing and Face to Face		As per manufacturer & Indl Standard	

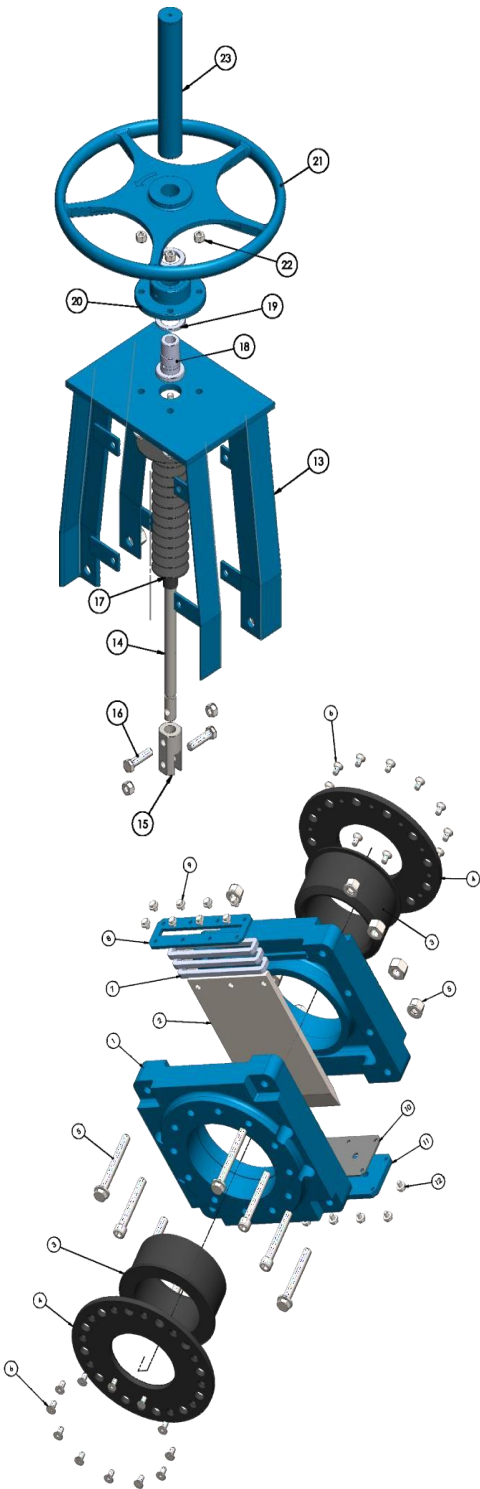
* Other materials are available on request. Plz contact valves@sparkmedls.com for details

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Bill of Materials (Parts List)



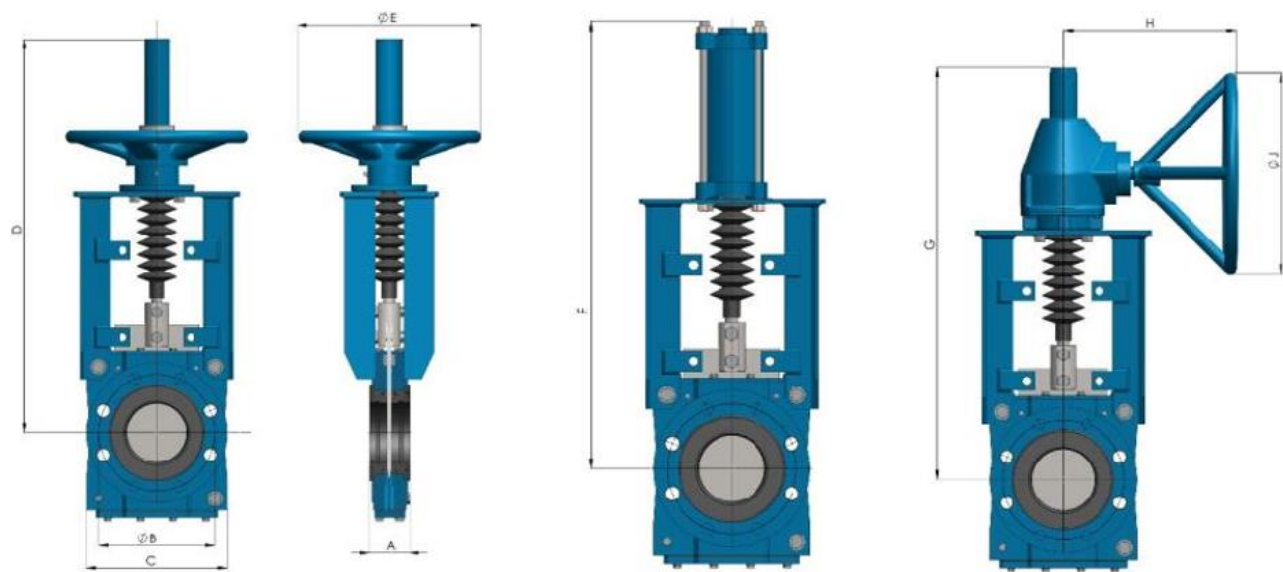
Item No.	Description	Material of Construction
1	Body	WCB / CF8 / CF8M
2	Gate	SS316 / 2205 / 17-4PH
3	Seat	Natural rubber / EPDM
4	Seat Retainer	Carbon steel Rubber lined
5	Body mounting fasteners	CS / SS
6	Seat Retainer fasteners	CS / SS
7	Packing	PTFE with Quad ring
8	Gland Plate	Carbon Steel
9	Gland Plate mounting fasteners	CS / SS
10	Drain plate gasket (Body)	EPDM
11	Drain Plate(Gland)	Carbon steel
12	Fasteners (Drain Plate)	CS / SS
13	Super Structure	Carbon steel
14	Stem	SS304 / SS316
15	Clevis / Fork	SS304 / SS316
16	Fasteners (Clevis / Fork)	SS304 / SS316
17	Stem Bellows	Canvas / Leather
18	Stem Nut	Brass
19	Thrust Bearing	SS
20	BRG. Housing	Carbon Steel
21	Hand Wheel	CI / DI
22	Fasteners (Brg. housing)	Carbon Steel
23	Stem Cover	Carbon steel

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Dimensional Data



Dimensions (Metric mm)

Valve Size	A	*B	C	D	E	F	G	H	J
80	176.00	168.30	266.70	520.00	400.00	823.70	720.00	225.00	300.00
100	176.00	200.00	298.50	692.00	400.00	930.60	810.00	225.00	300.00
150	185.00	269.90	362.00	854.00	500.00	1149.80	930.00	240.00	300.00
200	185.00	330.20	425.50	1004.00	500.00	1388.10	1100.00	240.00	500.00
250	226.00	387.40	510.30	-	-	1565.00	1250.00	260.00	500.00
300	258.00	450.80	571.20	-	-	1848.00	1450.00	395.00	500.00
350	258.00	514.40	749.30	-	-	2088.50	1660.00	395.00	500.00
400	279.00	571.50	825.50	-	-	2240.70	1870.00	430.00	600.00
450	321.00	628.60	882.70	-	-	2472.80	2000.00	460.00	600.00
500	367.00	685.80	946.20	-	-	2725.80	2180.00	490.00	600.00
600	370.00	812.80	1130.30	-	-	2946.30	2625.00	540.00	600.00

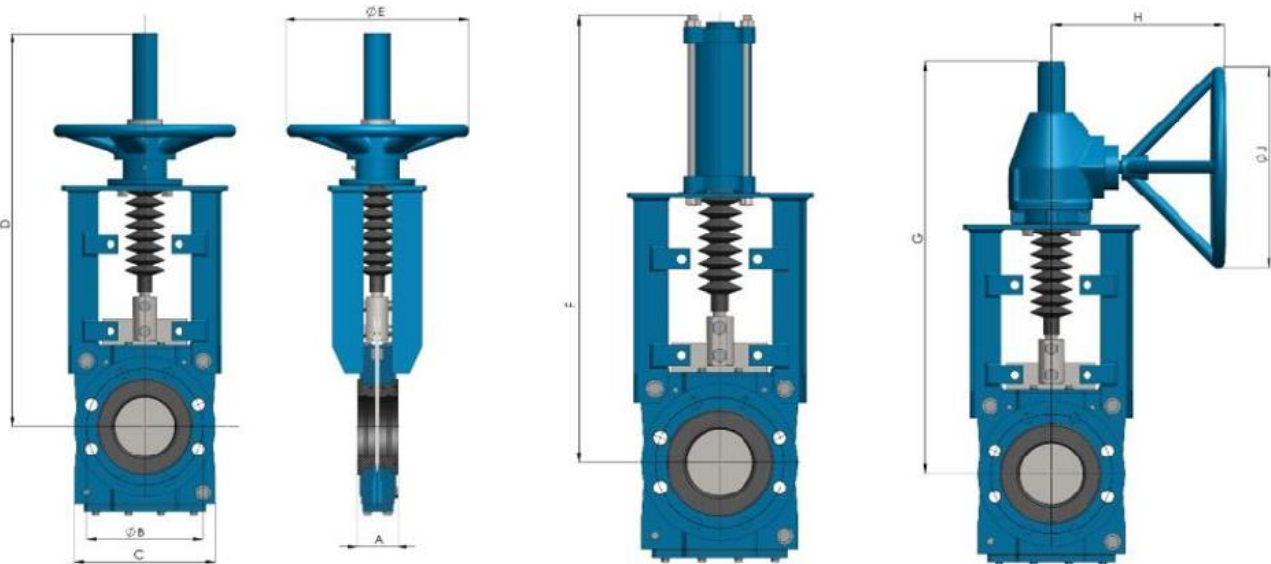
**In conformance with ASME B16.5, Class 150 for sizes NPS 2 (DN50) through NPS 24 (DN600)*

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Dimensional Data



Dimensions (Imperial Inches)

Valve Size	A	*B	C	D	E	F	G	H	J
3	6.92	6.62	10.50	20.48	16.00	32.43	28.34	8.86	12.00
4	6.92	7.87	11.75	27.27	16.00	36.64	31.88	8.86	12.00
6	7.28	10.62	14.25	33.61	20.00	45.27	36.61	9.45	12.00
8	7.28	13.00	16.75	39.55	20.00	54.65	43.30	9.45	20.00
10	8.91	15.25	20.09	-	-	61.62	49.21	10.24	20.00
12	10.17	17.75	22.49	-	-	72.76	57.08	15.55	20.00
14	10.22	20.25	29.50	-	-	82.22	65.35	15.55	20.00
16	10.98	22.50	32.50	-	-	88.22	73.62	16.93	24.00
18	12.65	24.75	34.75	-	-	97.35	78.74	18.11	24.00
20	14.44	27.00	37.25	-	-	107.31	85.82	19.30	24.00
24	14.56	32.00	44.50	-	-	116.00	103.34	21.26	24.00

**In conformance with ASME B16.5, Class 150 for sizes NPS 2 (DN50) through NPS 24 (DN600)*



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