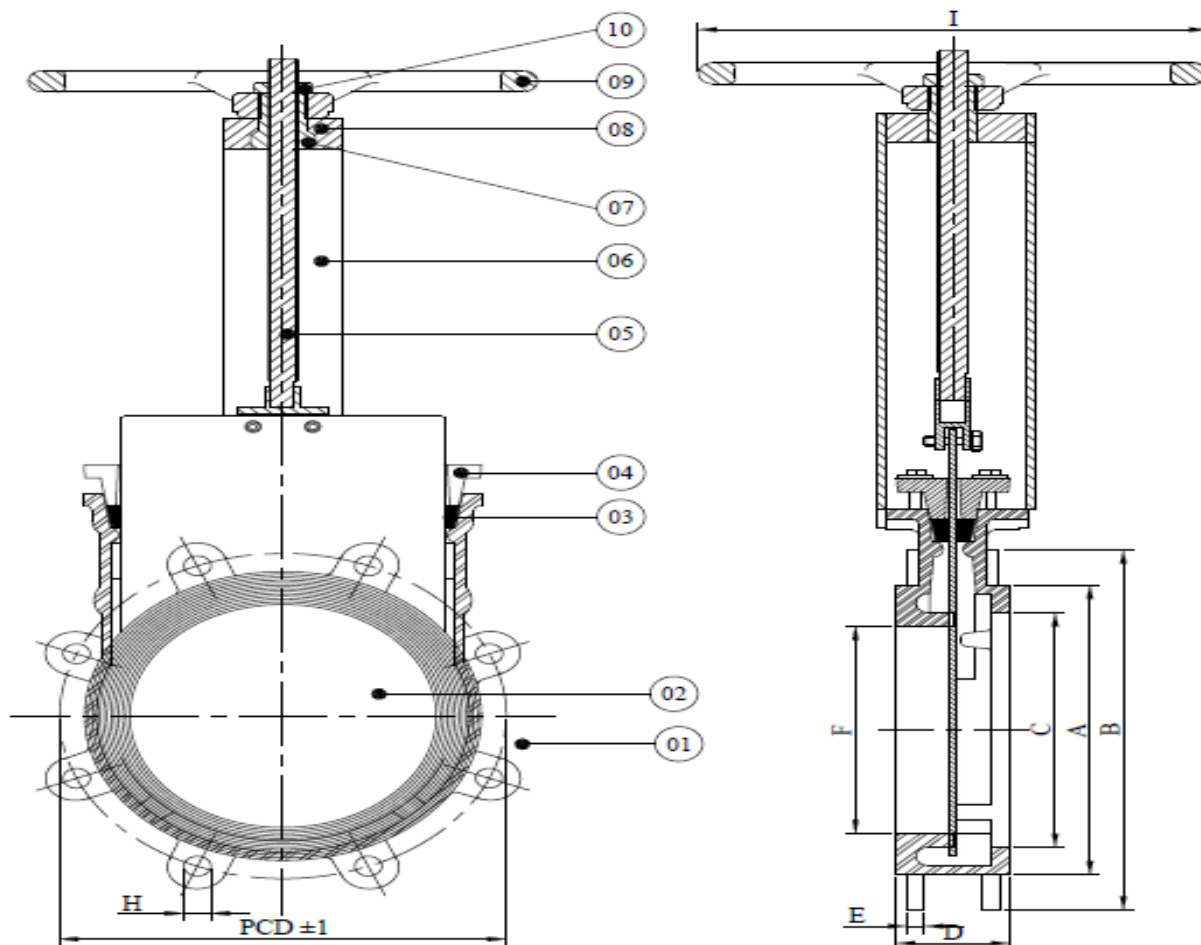


# FLOWTECH VALVES & FITTINGS CO.

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## FLOWTECH KNIFE EDGE GATE VALVES–HIGH PERFORMANCE



S.NO	DESCRIPTION	QTY	MATERIAL
01	BODY/CHEST	01	CI , CS WCB,SGI,SS 304(CF8),SS 316(CF8M), HAST C ETC
02	GATE/VALVE PLATE	01	SS 304/SS316 / CS / M S HARD CHROME PLATED
03	GLAND PACKING	03	IMP. ASBESTOS/ PTFE IMP FIBRE / COTTON GRAPHITE
04	GLAND BUSHER/FOLLOWER	01	DI/ SGI / CS/SS CF8/ SS CF8M
05	SPINDLE/STEM	01	SS 410 / SS 304
06	YOKE	02	Carbon steel / M.S/C.S/C.I/S.S
07	YOKE SLEEVE/NUT/BUSH	01	G.M
08	BLOCK	01	CI/S.G.I
09	WHEEL	01	CI/ S.G.I
10	FASTNERS/NUT-BOLT	-	CS/MS/ SS /ZINC PLATED

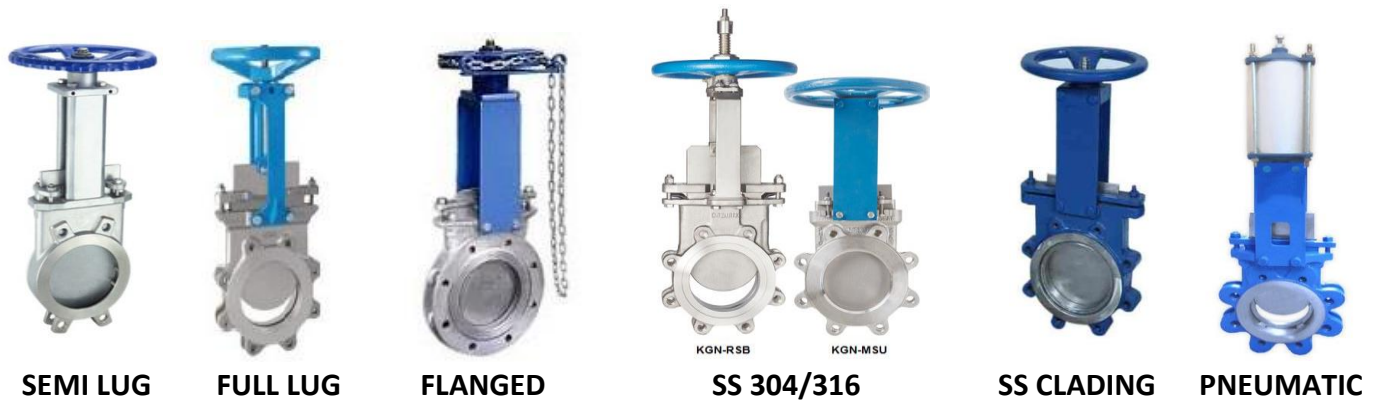
**MANUFACTURING STANDARD/ DESIGN STD: MSSSP -81**

**BODY TEST PRESSURE:** AS PER MSS SP-81 NORMS 10KG/CM<sup>2</sup> (150 PSI) HYD.

WORKING PRESSURE 6KG/CM<sup>2</sup>.

**SEAT TEST PRESSURE:** METAL SEATED VALVES AS PER MSS SP 81 NORMS & TAPPI 405.

SOFT SEATED VALVES FOR ZERO LEAKAGE.



## APPLICATIONS:

VALVES are designed for isolation , on/off and throttling applications , robust body and gate designed to handle tough applications including corrosive and abrasive services ,heavy, sticky, dense, abrasive, fibrous materials, slurries, slag , pulp and paper, sewage, waste water treatment plant, sludges and viscous media ,sugar mills sticky media , molasses, ash handling ,bulk handling , iron and steel , dry powder, textile, cement, aluminium , dry solids and powder handling ,polymer chips, coal and carbon black , thermal power generation plants, food and beverage, mining, collieries , chemical sludges in plants ,fertilizer ,hopper isolation valves ,pneumatic conveying systems , dryers , weighing and batching systems , coal burner valves to nfpa -8503 specifications , high temperature gas lines in carbon black plants , fly ash , clean and corrosive gases etc

## SALIENT FEATURES:

**END CONNECTIONS / STYLE:** wafer type-flange less full lug / semi lug (two lug)/flanged, compact/ sleek design for low headroom mountings as per our standard and design for mounting / fitting directly between two pipe line flanges as per ANSI b 16.5 class 150rf,bss 10 table e, iss,pn10, din etc.

**BODY:** heavy duty rugged single piece casting body / two-piece body, rigid construction

**MOC:** a wide range of materials of construction

**SEAT:** seating options: metal to metal- integral to body, ss304 / ss316 for leak class iv across the port as per msssp 81 , other variety of resilient soft seat metal to soft seated options to suit different service conditions are available , (neoprene , epdm , viton , nitrile , ptfe Teflon etc with tight shut off

**GATE:** stainless steel gate, self-cleaning, bevelled edge, precision machined and buffed on both sides to enhance packing life and ensure positive shut off due to bevelled edge to cut through solid particles at bottom for smooth operation and optimum sealing. with precisely positioned welded-on jams .Hard facing of seating areas (stelliting / nitriding) of seat / gate can be done for tough services.

**PORT DESIGNS:** standard full round port, v port, diamond port, square, rectangle etc.  
painting: enamel

**TEMPERATURE RANGE:** 0 to 1200 degrees c, as per material of construction

**OPERATIONS:** standard valves are with hand wheel operation, other options are pneumatic- double acting cylinder operation, pneumatic with manual operation, chain wheel operation, bevel gear operation, hydraulic operation, lever operation, electric motor operation etc to suit customer's requirement

**DIRECTION FOR INSTALLATION:** unidirectional, bidirectional

**ACCESSORIES (ON REQUEST):** deflector cone in highly abrasive application to prevent body from direct impingement of abrasive media, fail safe system for specified air failure position of valve , body and chest purges connection for slurry / powder handling , locking device , manual over ride for pneumatic actuator , extended stem , air filter (regulator)chain for chain wheel operation , matching flanges with gaskets and fastners, proximity switches , solonoid valves etc , ss cladding

stem : having double start thread os &y type for fast closing/ opening

**GATE GUIDE AND JAM:**gate guide provide support for moving .gate jams precisely welded on jams at the bottom pushes the gate and holds it against the back seat ring to ensure positive shut off across the port

**GLAND PACKING :** multi layered as per service condition

## **DIMENSIONS IN (MM)**

SIZE ID/NB INCH MM	A BO DY DIA	B LUG DIA	C OUT LET ID	D FACE TO FACE	E LUG THK	F IN LET ID	H HOLE DIA	I HAND WHEEL DIA	P C D	CENTRE TO TOP WHEN CLOSED APPROX	CENTRE TO TOP WHEN OPEN APPROX	CENTRE TO TOP PNEU CYL OP APPROX
2" 50 NB				48				203		272	347	555
2.5 " 65 NB				51				203		360	425	680
3" 80 NB				51				203		376	450	715
4" 100 NB				51				203		415	525	760
5" 125 NB				57				254		465	630	860
6" 150 NB				57				254		500	730	925
8" 200 NB				70				305		665	950	1097
10" 250 NB				70				406		710	975	1270
12" 300 NB				76				406		800	1180	1450
14" 350 NB				76				508		900	1300	1665
16" 400 NB				89				508		1030	1380	1735
18" 450 NB				89				508		1095	1545	1880
20" 500 NB				114				508		1160	1650	2145
24" 600 NB				114				508		1432	1965	2420

### **NOTE:**

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED AND ARE INDICATIVE ONLY AND SUB TO CHANGE DUE TO CONTINUOUS DEVELOPMENT.

PLEASE CLEARLY SPECIFY THE APPLICATION, SIZE, MOC, TYPE OF OPERATION, FLANGE STANDARD , QTY, AND ANY OTHER OPTION REQUIRED IN ENQUIRY / ORDER.