FGV

Flanged Knife Gate Valves

FLUID POWER™

UNITED ARAB EMIRATES

Valve Technologies

MANUFACTURED IN SOUTH AFRICA

SLURRY FLANGED SERIES KNIFE GATE VALVE

The Flanged Model Clarkson-type Slurry Knife Gate Valve KGA - FGV is built with a cast SG Iron Gr. 42 or fabricated body and features a heavy-duty stainless steel blade. Removable sleeves on either side of the blade provides a bi-directional, bubble-tight seal with no metal parts in contact with the slurry.

Original manufacturers names, part numbers and descriptions are for reference purposes only and does not imply that any part is the product of these manufacturers.

FEATURES

- Double-seat design for heavy-duty slurry service.
- Ease-of-replacement seat liners.
- When open, the Flanged Knife Gate is fully withdrawn from the slurry flow.
- No metal parts in contact with the flowing slurry.
- Bubble-tight shutoff.
- No clogged bonnet to impede flow.
- External epoxy-coated.
- Easily adapted to suit most actuators.
- Low-maintenance.
- Suitable for wet or dry service.
- Bi-directional flow.
- No gland to maintain.
- Wide range of elastomer's available.
- Light-weight for easier handling.
- No seat cavity where solids can collect and prevent full gate closure.
- Leak Test and Pressure Test according to ISO 9001:2015 standard.

PRODUCT SPECIFICATION

Body	:	Flanged pattern SG Iron Gr. 42 (SABS), Gr. 10 (SABS), WCB or Stainless 304/316.
Elastomer Sleeves	:	Gum Rubber (Standard), Nitrile, EPDM, Butyl, Hypalon.
Pressure Rating	:	**SS 316 Gate:** DN 50-400 10 bar, DN 450-600 6.2 bar. **Duplex 2205 Gate:** DN 50-450 16 bar, DN 500-600 10 bar.
Gate Material	:	304/316 Stainless Steel with optional coatings available. Other blade materials available - 17-4PHSS, Hastelloy, SAF 2205 Duplex Stainless Steel.
Drilling Patterns	:	DN 80 to DN 250 drilled and tapped BS, ANSI, SABS, BS10 Table 1 DN 300 to DN 400 flanges are slotted ANSI 150# or other upon application. **** other options available upon request.***
Material Certification	:	Certified chemical and physical test reports can be supplied.
Top Works	:	Mild Steel - Angle Iron or A-Frames.
Color	:	To client specification.
Branding	:	Optional.

APPLICATIONS

- Mining & Mineral Processing.
- Chemical & Soda Ash.
- Power Generation.
- Pulp & Paper.
- Sand & Gravel.
- Environmental & Effluent.
- Cement.

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ACTUATORS

All types of actuators can be fitted:

- Electric.
- Gear Box.
- Hydraulic.
- Pneumatic.
- Hand Wheel.
- Chain Wheel.

ACCESSORIES

Flushing Port Cover	:	For use on corrosive medium.
Dust Covers	:	PVC Bellows and Spindle cover.
Gate	:	Various gate materials.
Instrumentation	:	Proximity Switches – Pneumatic Solenoid Valves.

DIMENSIONS

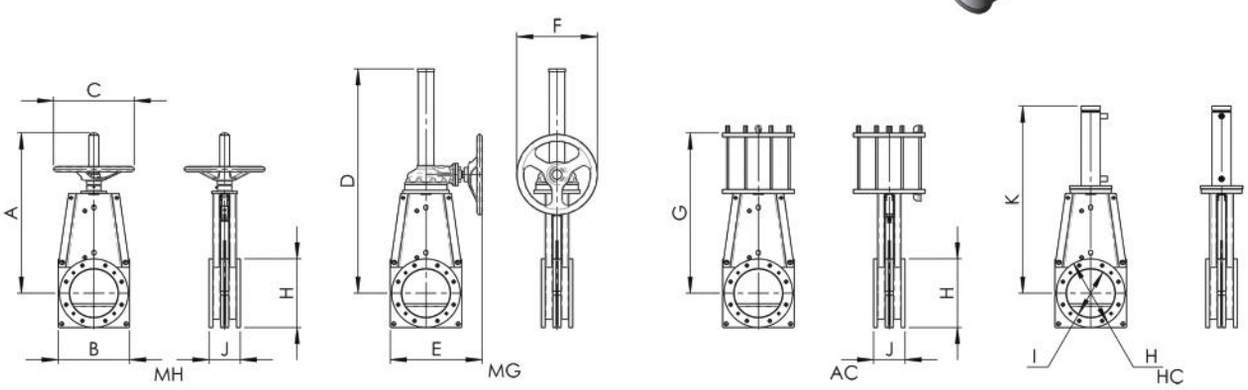
Dimensions are for guidance only - detailed dimension drawings are available on request. All dimensions are stated in millimeters.

VALVE BODY

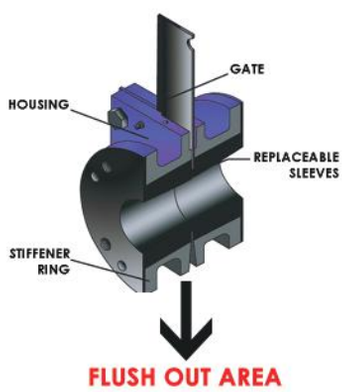
- Lubrication ports on both sides of the valve body.
- Flushing port at the bottom.
- Open/Closed lockout brackets (Standard), ready for optional factory supplied lockout pins.
- Adaptable frame (yoke) design can be field modified to take Air Cylinder/Hydraulic Cylinder/ Hand-wheel/Gearbox or Electrical Actuator.

HOW THE RUBBER INSERTS WORK

- Matching rubber inserts are placed in the valve housing to seal against the gate when the valve is closed and seal against each other when the valve is open.
- This tight seal contains the high internal line pressure, precluding direct pressure against the secondary seal.
- Double-seated design provides bi-directional flow and shut off.



Valve Size (DN)	Size	3" 80mm	4" 100mm	6" 150mm	8" 200mm	10" 250mm	12" 300mm	14" 350mm	16" 400mm	18" 450m	20" 500mm	24" 600mm	26" 650mm	28" 700mm	30" 750mm
MH	A	480.82	558.80	711.20	835.66	984.25	-	-	-	-	-	-	-	-	-
MH	B	225.55	279.40	330.20	387.35	420.62	533.40	577.85	615.95	673.10	720.85	858.52	933.45	933.45	1054.10
MH	C	305	305	406	610	610	-	-	-	-	-	-	-	-	-
MH	J	174.75	174.75	177.80	184.15	225.55	257.30	257.30	279.40	311.15	358.90	371.60	365.25	378	395.48
MG	D	543.05	592.58	864	378.21	1082.80	1205.23	1354.07	1452.88	1695.45	1827.28	2189.23	-	-	-
MG	E	401.57	428.75	454.15	482.60	594.36	647.70	670.05	701.55	770.89	794.77	882.65	-	-	-
MG	F	305	305	305	305	610	610	610	610	610	610	610	-	-	-
AC	G	543.05	608.08	766.57	889	1028.70	1155.70	1357.12	1528.83	1717.55	1866.90	2235.20	-	-	-
HC	K	623.82	701.80	863.60	973.07	1123.95	1349.50	1468.12	1627.12	1746.25	1890.78	2276.60	2378.20	2378.20	2697.23
Port	H	61.21	84.58	136.65	174.75	230.12	273.05	317.50	355.60	377.95	420.62	538.23	596.90	596.90	679.45
Inlet	I	71.37	98.55	147.57	196.85	249.17	292.10	336.55	374.65	425.45	469.90	584.20	635	635	736.60
Weight KG	MH	22.7	29	44.5	61.2	89.8	-	-	-	-	-	-	-	-	-
Weight KG	MG	57.6	64	79.4	96.2	124.7	193.7	203.2	259.9	396.9	478.1	-	-	-	-
Weight KG	AC	38.6	59	81.6	95.3	140.6	303.5	326.6	510.3	603.3	762	997.9	-	-	-
Weight KG	HC	22.7	31.8	44.5	61.2	79.4	163.3	187.8	249.5	430.9	544.3	635	771.1	816.5	975.2



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