



**marvuti**  
industries

Mfg. of Industrial Valve



## I.C. Knife Edge Gate Valve

**FLOWMAX MODEL SK.100** knife gate is an UNI-DIRECTIONAL / BI-DIRECTIONAL lug type valve designed according to MSS-SP-81 for industrial service applications. The design of the body and seat assures non-clogging shut off on suspended solids in industries such as:

- Pulp and Paper
- Power plants
- Mining
- Chemical plants
- Waste Water Treatment Plants
- Food and Beverage
- etc.

**Sizes :** DN 50/2" to DN1050/42" (larger diameters on request)

### Working Pressure:

DN 50/2" to DN 400/16": 10 kg/cm<sup>2</sup> / 150 psi

DN 450/18" to DN 800/32" : 4 kg/cm<sup>2</sup> / 60 psi

DN 850/34" to DN 1050/42" : 3 kg/cm<sup>2</sup> / 45 psi

### Standard flange connection :

DIN PN 10 and ANSI B16.5 (class 150)

Others on request

PART	CAST IRON : STAINLESS STEEL LIST :
1- BODY :	C.I ,WCB CF8, CF8M, SGI
2- GATE	AISI 304 AISI 316
3- SEAT	METAL TO METAL (EPDM/VITON/PTFE/NITRIL)
4- PACKING	PTFE IMPREG. SYNTH. FIBRE
5- GLAND FOLLOWER	DUCTILE IRON CF,8,CF8M,WCB
6- STEM	AISI 304
7- STEM NUT	GUN METAL
8- YOKE	CARBON STEEL
9- SEAT RING	AISI 304 AISI 316
10 - OPERATED :	PNEUMATIC / MANNUL
11 - FASTNERS	ZINC PLATED CARBON STEEL



## | DESIGN FEATURES

### Body:

One Piece Integrally Investment Cast Body With Reinforced Ribs In Larger Diameters For Extra Body Strength. Internal AISI 304, AISI 316 Gate Wedges And Guides Allows For Tighter Shutoff. port Design According To Mss-sp-81 Internal Design Avoids Any Build Up Of Solids That Would Prevent Valve From Closing.

### Gate:

Standard AISI 304, AISI 316 Stainless Steel Gate. Gates Polished And Lapped For A Greater Seal Between The Gate With Both Packing And **Seat**. Bottom Of The Gate Edge is Machined To A Bevel To Cut Through Solids For A Tighter Seal In The Closed Position.

### Seat:

Unique Design That Mechanically Locks. The Seat in The Internal Of The Valve Body With A Stainless Steel Retainer Ring. standard Epdm; Viton, PTFE, etc.

### Packing:

Standard Braided PTFE Impregnated Fibre, graphite, asbestoes for Better Shut Off, With An Easy Access Packing Gland Ensuring A Tight Seal Long-life Braided Packing is Available in A Wide Range Of Materials.

### Stem:

The SS 304 Stem Offers A Long Corrosion Resistant Life. for Rising Stem Handwheel With Gun Metal Stem Nut

### Actuators:

All Actuators Supplied By **Flowmax** Are Interchangeable, And Supplied With An Standard Mounting Kit To Allow For Installation On Site.

### Yoke Or Actuator Support:

Made Of Epoxy Coated Steel Compact Design Makes it Extremely Robust Even Under The Most Severe Conditions.

### Epoxy Coating:

The Epoxy Coating On All **Flowmax** Cast Iron And Carbon Steel Valve Bodies And Components is Electrostatically Applied Making The Valves To Be Corrosion Resistant With A High Quality Finished Surface. The **Flowmax** Standard Colour Is Racing Blue.

### Gate Safety Protection:

**Flowmax** Automated Valves Are Provided With Gate Guards In Accordance With Safety Standards. the Design Feature Prevents Any Objects From Being Caught Accidentally While The Gate Is Moving.







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## Knife Edge Gate Valve with S.S. Cladding

**Flowmax Model SK 101** Stainless Steel Cladding Knife Gate Valve Is An Uni-directional For Industrial Service Applications This Body And Seat Assures Non-clogging Shut Off On Suspended Solids In Industries Such As :

- Pulp And Paper
- Food And Beverage
- Wastewater Treatment Plants
- Bulk Handling
- Chemical Plants
- Mining

**Sizes :** Dn 50 To Dn 700

### Standard Flange Connection :

E-table Din PN 10 And Ansi B16.5 (class 150)

### Note :

Other Flange Connections Are Available On Request.

### Valves Operation :

Hand Weel Operation, pneumatic Operation, Hydraulic Operation, chain Wheel Operation Electric Motor Operation, Bevel Gear Operation, lever Operation

PART	CAST IRON : STAINLESS STEEL LIST :
1- BODY	WCB, C.I., SG.I
2- GATE	AISI 304 AISI 316
3- SEAT	Metal To Metal
4- PACKING	PTFE Impreg. Synth. Fibre
5- GLAND FOLLOWER	Ductile Iron CF, 8, CF8M, WCB
6- STEM	AISI 304
7- STEM NUT	Gun Metal
8- YOKE	Carbon Steel
9- SEAT RING	AISI 304 AISI 316
10- HANDWHEEL	310: Ductile Iron / > 410: Gjl 250 (gg25)
11- FASTNERS	Zinc Plated Carbon Steel



# Knife Edge Gate Valve with Manual Operating

**Flowmax Model SK .102 Knife Edge Gate Valves** Is An Uni-directional Lug Type Valve Designed According To MSS-SP-81 For Industrial Service Applications. The Design Of The Body And Seat Assures Non-clogging Shut Off On Suspended Solids In Industries Such As:

- 🌐 Pulp And Paper
- 🌐 Wastewater Treatment Plants
- 🌐 Chemical Plants
- 🌐 Food And Beverage
- 🌐 Bulk Handling
- 🌐 Mining

**Sizes :** DN 50 to DN 1050 (larger diameters on request)

## Working pressure :

DN 50 to DN 400: 10 kg/cm<sup>2</sup> / 150 psi

DN 450 TO 700: 4 kg/cm<sup>2</sup> / 60 psi

DN 700 TO 1050 3 kg/cm<sup>2</sup> / 45 psi

## Standard flange connection :

TABLE "D", "E" DIN PN 10 and ANSI B16.5 (class 150)

Others on request



PART	CAST IRON : STAINLESS STEEL LIST :
1- BODY	C.I, WCB, CF8, CF8M, SGI
2- GATE	AISI 304 AISI 316
3- SEAT	Metal To Metal (EPDM/VITON/PTFE/NITRIL)
4- PACKING	PTFE Impreg. Synth. Fibre
5- GLAND FOLLOWER	Ductile Iron, CF,8,CF8M,WCB
6- STEM	AISI 304
7- STEM NUT	Gun Metal
8- YOKE	Carbon Steel
9- SEAT RING	AISI 304 AISI 316
10- HANDWHEEL	310: Ductile Iron / > 410: Gjl 250 (gg25)
11- FASTNERS	Zinc Plated Carbon Steel





## Pulp Valve

**Flowmax Model :- SK 103 Offers Pulp Valve. (Plate Valve)** Which Are Carefully Design To Offer Unrestricted Smooth Flow Of Viscous Fluids, Recesses Free Straight Passage Orifice Offers Minimum Body Contact Of Line Fluid, Avoids Accumulation Of Viscous Fluid In The Orifice Ensures Unaltered Velocity.

Our Pulp Valve Are Widely Used In Sugar Industries For Handling Molasses, Isolation Of Pulp & And Fibrous Material In Paper Industries. Our Pulp Valve Are Ideally Suitable For Hopper Isolation In The Cement Industries. For Corrosive Slurries In The Chemical Industries, Powder Application Minerals & Metal Industries, Coal Ash With Abrasive Particle In The Coal & Mining Industries.

**SIZES :** DN 50 TO DN 400

### Standard flange connection :

Table "E", "D" Pulp Valves For Slurry Lines, Sludge And Viscous Media Handling, Pulp And Paper Stock Lines, Dry Solid, Powder Handling And Many More.

### Valves Operation :

Hand Weeel Operation, pneumatic Operation, Hydraulic Operation , chain Wheel Operation Electric Motor Operation , Bevel Gear Operation, lever Operation



PART	CAST IRON : STAINLESS STEEL LIST :
1- BODY	C.I, WCB, CF8, CF8M
2- GATE	AISI 304 AISI 316
3- SEAT	Metal To Metal
4- PACKING	PTFE Impreg. Synth. Fibre
5- GLAND FOLLOWER	Ductile Iron
6- STEM	AISI 304
7- STEM NUT	Gun Metal
8- YOKE	Carbon Steel
9- SEAT RING	AISI 304 AISI 316
10- HANDWHEEL	310 : Ductile Iron / > 410: GJl 250 (gg25)
11- FASTNERS	Zinc Plated Carbon Steel



# Knife Edge Gate Valve with Pneumatic Operating

**Flowmax Model SK .104 Pneumatic Knife Gate Valves** Is An Uni-directional Lug Type Valve Designed According To MSS-SP-81 For Industrial Service Applications.the Design Of The Body And Seat Assures Non-clogging Shut Off On Suspended Solids In Industries Such As:

- Pulp And Paper
- Wastewater Treatment Plants
- Chemical Plants
- Food And Beverage
- Bulk Handling
- Mining
- etc.

**Sizes:** DN 50 to DN 1050 (larger diameters on request)

## Working pressure :

DN 50 to DN 400: 10 kg/cm<sup>2</sup> / 150 psi

DN 450 TO 700: 4 kg/cm<sup>2</sup> / 60 psi

DN 700 TO 1050 3 kg/cm<sup>2</sup> / 45 psi

## Standard flange connection :

TABLE "D", "E" DIN PN 10 and ANSI B16.5 (class 150)

Others on request

PART	CAST IRON : STAINLESS STEEL LIST :
1- BODY :	C.I ,WCB CF8, CF8M, SGI
2- GATE	AISI 304 AISI 316
3- SEAT	METAL TO METAL (EPDM/VITON/PTFE/NITRILA)
4- PACKING	PTFE IMPREG. SYNTH. FIBRE
5- GLAND FOLLOWER	DUCTILE IRON CF,8,CF8M,WCB
6- SOLINOID VALVE	5/2 WAY (240VAC) (24VDC)
7- LIMIT SWITCH	PUSH BUTTON, PROXIMITY
8- YOKE	CARBON STEEL
9- SEAT RING	AISI 304 AISI 316
10- PNEUMATIC	CYLINDER OPERATED
11- FASTNERS	ZINC PLATED CARBON STEEL



## Knife Edge Gate Valve with Manual Gear Operating

**Flowmax Model SK .105 Knife Gate Valves Beval Gear Operated** Is An Uni-directional Lug Type Valve Designed According To MSS-SP-81 For Industrial Service Applications.the Design Of The Body And Seat Assures Non-clogging Shut Off On Suspended Solids In Industries Such As:

- Pulp And Paper
- Food And Beverage
- Wastewater Treatment Plants
- Bulk Handling
- Chemical Plants
- Mining
- etc.

**Sizes :** DN 50 to DN 1050 (larger diameters on request)

### Working pressure :

DN 50 to DN 400: 10 kg/cm<sup>2</sup> / 150 psi

DN 450 TO 700: 4 kg/cm<sup>2</sup> / 60 psi

DN 700 TO 1050 3 kg/cm<sup>2</sup> / 45 psi

### Standard flange connection :

TABLE "D", "E" DIN PN 10 and ANSI B16.5 (class 150)

Others on request

PART	CAST IRON : STAINLESS STEEL LIST :
1- BODY	C.I ,WCB CF8, CF8M
2- GATE	AISI 304 AISI 316
3- SEAT	METAL TO METAL (EPDM/VITON/PTFE/NITRILA)
4- PACKING	PTFE IMPREG. SYNTH. FIBRE
5- GLAND FOLLOWER	DUCTILE IRON CF,8,CF8M,WCB
6- STEM	AISI 304
7- STEM NUT	GUN METAL
8- YOKE	CARBON STEEL
9- SEAT RING	AISI 304 AISI 316
10- OPERATED	BEVAL GEAR
11- FASTNERS	ZINC PLATED CARBON STEEL





# Knife Edge Gate Valve

## Pneumatic with Manual Operating

**Flowmax Model SK .106 Pneumatic With Mannul Knife Gate Valves** Is An Uni-directional Lug Type Valve Designed According To MSS-SP-81 For Industrial Service Applications. The Design Of The Body And Seat Assures Non-clogging Shut Off On Suspended Solids In Industries Such As:

- 🌐 Pulp And Paper
- 🌐 Wastewater Treatment Plants
- 🌐 Chemical Plants
- 🌐 Food And Beverage
- 🌐 Bulk Handling
- 🌐 Mining
- 🌐 etc.

**Sizes :** DN 50 to DN 1050 (larger diameters on request)

### Working pressure :

DN 50 to DN 400: 10 kg/cm<sub>2</sub> / 150 psi

DN 450 TO 700: 4 kg/cm<sub>2</sub> / 60 psi

DN 700 TO 1050 3 kg/cm<sub>2</sub> / 45 psi

### Standard flange connection:

TABLE "D", "E" DIN PN 10 and ANSI B16.5 (class 150)

Others on request

PART	CAST IRON : STAINLESS STEEL LIST :
1- BODY :	C.I ,WCB CF8, CF8M
2- GATE	AISI 304 AISI 316
3- SEAT	METAL TO METAL (EPDM/VITON/PTFE/NITRILA)
4- PACKING	PTFE IMPREG. SYNTH. FIBRE
5- GLAND FOLLOWER	DUCTILE IRON CF,8,CF8M,WCB
6- STEM	AISI 304
7- STEM NUT	GUN METAL
8- YOKE	CARBON STEEL
9- SEAT RING	AISI 304 AISI 316
10- OPERATED	CYLINDER WITH MANNUL
11- FASTNERS	ZINC PLATED CARBON STEEL



## Kinfe Edge Gate Valve with Chain Operating

**Flowmax Model SK .107 Knife Gate Valves Chain Operated** Is An Uni-directional Lug Type Valve Designed According To MSS-SP-81 For Industrial Service Applications.the Design Of The Body And Seat Assures Non-clogging Shut Off On Suspended Solids In Industries Such As:

- Pulp And Paper
- Food And Beverage
- Wastewater Treatment Plants
- Bulk Handling
- Chemical Plants
- Mining
- etc.

**Sizes :** DN 50 to DN 1050 (larger diameters on request)

### Working pressure :

DN 50 to DN 400: 10 kg/cm<sup>2</sup> / 150 psi

DN 450 TO 700: 4 kg/cm<sup>2</sup> / 60 psi

DN 700 TO 1050 3 kg/cm<sup>2</sup> / 45 psi

### Standard flange connection :

TABLE "D", "E" DIN PN 10 and ANSI B16.5 (class 150)

Others on request

PART	CAST IRON : STAINLESS STEEL LIST :
1- BODY	C.I ,WCB CF8, CF8M
2- GATE	AISI 304 AISI 316
3- SEAT	METAL TO METAL (EPDM/VITON/PTFE/NITRILA)
4- PACKING	PTFE IMPREG. SYNTH. FIBRE
5- GLAND FOLLOWER	DUCTILE IRON CF,8,CF8M,WCB
6- STEM	AISI 304
7- STEM NUT	GUN METAL
8- YOKE	CARBON STEEL
9- SEAT RING	AISI 304 AISI 316
10- OPERATED	CHAIN WHEEL
11- FASTNERS	ZINC PLATED CARBON STEEL



## Butterfly Valve

Model No. :	SK 108
Body	: C.I. WCB. CF8. CF8M
Operating	: Lever
Dish	: CI, SS304, SS316,
Rubber Lining	: Nitrile EPDM, PTFE,
Ends	: Wafer Type
Size	: 40mm to 350mm



Model No.	: SK 109
Body	: C.I. WCB. CF8. CF8M
Operating	: Gear Box
Dish	: CI, SS304, SS316,
Rubber Lining	: Nitrile, EPDM, PTFE,
Ends	: Wafer and Flange
Size	: 40mm to 800mm



## | Seat Ring Assembly



Metal Seat Ring



V-PORTS



PTFE Seat Ring



EPDM Seat Ring



DEFLECTION CONES

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