KNIFE GATE VALVES
AND
CHECK VALVES
**PRODUCT DESCRIPTION**

Wafer style, uni-directional knife gate valve. One piece integral cast body with guides to support the gate and seating wedges. High flow rates with low pressure drops. Several seat and packing materials available. Face to face dimension according CMO standard. Arrow in the body pointing the flow direction.

**GENERAL APPLICATIONS**

This knife gate valve is appropriate for liquids with a solids concentration of maximum 5%. If it is used for dry solids in gravity feed applications it is recommended to be installed with the arrow in the opposite direction to the flow direction. Designed for a wide range of applications such as:
- Pulp and Paper.
- Mining.
- Effluent handling plants.
- Chemical plants.
- Food and beverage.
- Bulk conveying.
- Sewage applications.
- Chemical plants.

**TECHNICAL DATA**

**Standard manufacturing sizes:**
- From DN50 up to DN2000

**Working pressures:**
- From DN 50 to DN 125: 10 (kg/cm²)
- DN 150: 8 (kg/cm²)
- DN 200: 7 (kg/cm²)
- From DN 250 to DN 300: 5 (kg/cm²)
- From DN 350 to DN 400: 4 (kg/cm²)
- From DN 450 to DN 600: 3 (kg/cm²)
- From DN 700 to DN 1200: 2 (kg/cm²)

**Flange connection drillings:**
- The standard flange connection is according to DIN PN10.
- Other flange connections such as, ANSI 150, DIN PN6 – PN16 – PN25, British Standard, Australian Standard, JIS are available under request.

**Applied Directives:**

**Quality Dossier:**
- All valves are hydrostatically tested at CMO with water and CMO material and test certificates can be provided.
- Body test pressure = Maximum rated pressure x 1,5
- Seat test pressure = Maximum rated pressure x 1,1

**SERIES A**

**LUGGED TYPE**

Series A is also available

Lugged type under request

**ACCESORIES & ACTUATORS**

- Any type of actuator available. Rising or non rising stem
- Any type of soft sealing: Nitrile, Viton, Silicon, PTFE etc. Also metal seat available
- All kind of accesories available: Deflector cone, Reinforced socket, Diaphragm, Mechanical Limit Switches, Inductive Switches and Positioners, Solenoid valves, Connection electrical boxes, electrical wiring and pneumatic piping, Stroke limiting mechanical stops, Mechanical locking device, Emergency manual actuator (hand wheel /gear box), Flushing Holes, Bonnet, etc.
PRODUCT DESCRIPTION

Wafer style, bidirectional knife gate valve. One piece integral cast body with sliding wedges to provide bidirectional function. High flow rates with low pressure drops. Several seat and packing materials available. Face to face dimension according CMO standard.

GENERAL APPLICATIONS

This knife gate valve is appropriate for clean liquids or liquid with a solids concentration of maximum 4% on paper pulp applications and up to 35% of low density and dimension solids on sewage water applications. If application contains hard solids such as rocks, stones and similars then other Series for slurry must be used.

Designed for a wide range of applications such as:
- Effluent handling plants.
- Chemical plants.
- Food and beverage.
- Sewage applications.

In all these applications the installation of the valve is recommended after the fluid is screened to eliminate the solids or big parts contained on it.

TECHNICAL DATA

Standard manufacturing sizes:
- From DN50 up to DN2000

Working pressures:
- From DN 50 to DN 125: 10 (kg/cm²)
- DN 150: 8 (kg/cm²)
- DN 200: 7 (kg/cm²)
- From DN 250 to DN 300: 5 (kg/cm²)
- From DN 350 to DN 400: 4 (kg/cm²)
- From DN 450 to DN 600: 3 (kg/cm²)
- From DN 700 to DN 1200: 2 (kg/cm²)

Flange connection drillings: The standard flange connection is according to DIN PN10. Other flange connections such as, ANSI 150, DIN PN6 – PN16 – PN25, British Standard, Australian Standard, JIS are available under request.

Applied Directives:

Quality Dossier:
- All valves are hydrostatically tested at CMO with water and CMO material and test certificates can be provided.
- Body test pressure = Maximum rated pressure x 1,5
- Seat test pressure = Maximum rated pressure x 1,1

NEW SERIES AB FOR HIGH PRESSURES

FROM DN 700 TO DN 1600 FOR 6 BARS AND 10 BARS

- OPTION 1: BODY IN STEEL S275JR, GATE AISI 304, EPDM SEAT
- OPTION 2: BODY IN CF8M, GATE IN AISI 316, EPDM SEAT

ASK FOR MORE INFORMATION

ACCESSORIES & ACTUATORS

- Any type of actuator available except manual lever. Rising or non rising stem
- Any type of soft sealing: Nitrile, Viton, Silicon etc. Metal or PTFE Not available
- All kind of accessories available: Deflector cone, Reinforced socket, Diaphragm, Mechanical Limit Switches, Inductive Switches and Positioners, Solenoid valves, Connection electrical boxes, electrical wiring and pneumatic piping, Stroke limiting mechanical stops, Mechanical locking device, Emergency manual actuator (hand wheel /gear box)
PRODUCT DESCRIPTION

Flanged, unidirectional knife gate valve.
One piece fabricated (welded) body with guides to support the gate and seating wedges.
Several seat and packing materials available.
Standard manufacturing flange connection and face to face dimension according CMO standard, but also can be fully adapted according to the customer pipeline dimensions.

GENERAL APPLICATIONS

This knife gate valve is appropriate for powders and solids, without any liquid contain. It is mainly used for dry solids in gravity feed applications and for low working pressures. Designed for a wide range of applications such as:
- Mining.
- Chemical plants.
- Food and beverage.
- Bulk conveying.

TECHNICAL DATA

Standard manufacturing sizes:
From 125x125 up to 1600x1600 mm
- Rectangular design also available
- Bigger sizes under request

Working pressures:
Standard: 0.5 Kg/cm²
For higher pressures please contact with our sales department.

Flange connection drillings:
The standard flange connection is according to CMO standard. Considering that it is a fabricated valve other flange connections are available under request. The flange connection and face to face dimension of the valve can be completely adapted to the dimensions needed by the customer.

Applied Directives:

Quality Dossier:
Since they are valves to be working with powders and solid particles these valves are not hydrostatically tested with water. The tightness of the seating area is measured by gauges.
CMO material and test certificates can be provided.

ACCESORIES & ACTUATORS

- Any type of actuator available. Rising or non rising stem
- Any type of soft sealing: Nitrile, Viton, Silicon, PTFE etc. Also metal seat available
- All kind of accessories available: Deflector cone, Mechanical Limit Switches, Inductive Switches and Positioners, Solenoid valves, Connection electrical boxes, electrical wiring and pneumatic piping, Stroke limiting mechanical stops, Mechanical locking device, Emergency manual actuator (hand wheel /gear box), Flushing Holes, Bonnet, etc.
PRODUCT DESCRIPTION

Flanged unidirectional knife gate valve for high pressure applications
One piece integral cast body with seating wedges and bolted bonnet.
High flow rates with low pressure drops
Several seat and packing materials available.
Face to face dimension according to CMO standard.
Arrow in the body pointing the flow direction

GENERAL APPLICATIONS

This knife gate valve is appropriate for clean liquids or liquids containing solid particles.
Designed for a wide range of applications such as:
- Pulp and Paper.
- Mining.
- Effluent handling plants.
- Chemical plants.
- Food and beverage.
- Bulk conveying.
- Sewage applications.
- Pumping installations

Applied Directives:
Directive 98/37/CE (machinery),
Directive 97/23/CE (PED: Group 2),
Directive 94/9/CE (ATEX: Group II, Cat. 3 / Zones 2 and 22)

Quality Dossier:
All valves are hydrostatically tested at CMO with water and CMO material and test certificates can be provided.
Body test pressure = Maximum rated pressure x 1.5
Seat test pressure = Maximum rated pressure x 1,

TECHNICAL DATA

Standard manufacturing sizes:
From DN50 up to DN2000 (bigger sizes under request)

Working pressures:
From PN2.5 up to PN100
Each valve is designed according to the working conditions:
For PN16 – Max. valve size DN1000
For PN25 – Max. valve size DN800
For PN40 – Max. valve size DN800
For PN64 – Max. valve size DN800
For PN100 – Max. valve size DN800

These pressures are to be applied on the valve following the direction of the arrow stamped on the body side. Due to the valve design with seating wedges it is allowed 50% of these pressures in the opposite direction of the arrow. Bidirectional design also available under request

Flange connection drillings:
The standard flange connection is according to DIN PN10 and Ansi B16.5 (Class 150)
Other flange connections such as DIN PN6 – PN16 – PN25, British Standard, Australian Standard, JIS Standard, are available under request.

Flange connection drillings:
The standard flange connection is according to DIN PN10 and Ansi B16.5 (Class 150)
Other flange connections such as DIN PN6 – PN16 – PN25, British Standard, Australian Standard, JIS Standard, are available under request.

TECHNICAL DATA

Standard manufacturing sizes:
From DN50 up to DN2000 (bigger sizes under request)

Working pressures:
From PN2.5 up to PN100
Each valve is designed according to the working conditions:
For PN16 – Max. valve size DN1000
For PN25 – Max. valve size DN800
For PN40 – Max. valve size DN800
For PN64 – Max. valve size DN800
For PN100 – Max. valve size DN800

These pressures are to be applied on the valve following the direction of the arrow stamped on the body side. Due to the valve design with seating wedges it is allowed 50% of these pressures in the opposite direction of the arrow. Bidirectional design also available under request

Flange connection drillings:
The standard flange connection is according to DIN PN10 and Ansi B16.5 (Class 150)
Other flange connections such as DIN PN6 – PN16 – PN25, British Standard, Australian Standard, JIS Standard, are available under request.

ACCESORIES & ACTUATORS

✓ Any type of actuator available. Rising or non rising stem
✓ Any type of soft sealing: Nitrile, Viton, Silicon, PTFE etc. Also metal seat available
✓ Mirror Polished Gate, PTFE Lined Gate, Stellited gate, Scraper in the packing, Air injection in the packing gland, Heating jacket, Flushing holes in body, Mechanical Limit Switches, Inductive Switches and Positioners, Solenoid valves, Connection electrical boxes, electrical wiring and pneumatic piping, Stroke limiting mechanical stops, Mechanical locking device, Emergency manual actuator (hand wheel /gear box), Triangular (V-notch) and pentagonal diaphragm with indication rule

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巳SERIES DT

KNIFE GATE VALVES

PRODUCT DESCRIPTION
Wafer style, unidirectional knife gate valve. Cast body, composed by two bolted parts, with inside sliding guides to provide a smooth operation. Double gate design with two pneumatic actuators that provides full bore when opening. High flow rates with low pressure drops. Several seat and packing materials available. Face to face dimension according CMO standard.

GENERAL APPLICATIONS
This knife gate valve is recommended for Paper Industry and especially for "rejects handling" (impurities contained in paper fibres like metal clips, staples, wires and others).

TECHNICAL DATA FOR DT-E SERIES
Standard manufacturing sizes:
From DN80 up to DN600 (bigger sizes under request)
Working pressures:
From DN 80 to DN 125: 10 (kg/cm²) DN 150: 8 (kg/cm²) DN 200: 7 (kg/cm²)
From DN 250 to DN 300: 5 (kg/cm²) From DN 350 to DN 400: 4 (kg/cm²)
From DN 450 to DN 600: 3 (kg/cm²)
Flange connection drillings:
The standard flange connection is according to DIN PN10.
Other flange connections such as, ANSI 150, DIN PN6 – PN16 – PN25, British Standard, Australian Standard, JIS Standard, are available under request.
Applied Directives:
Quality Dossier:
All valves are hydrostatically tested at CMO with water and CMO material and test certificates can be provided.
Body test pressure = Maximum rated pressure x 1,5
Seat test pressure = Maximum rated pressure x 1,1

巳SERIES E

KNIFE GATE VALVES

PRODUCT DESCRIPTION
Wafer style, unidirectional knife gate valve with round to square flow pass. Cast body, composed by two bolted parts, with inside sliding guides to provide a smooth operation. High flow rates with low pressure drops. Several seat and packing materials available. Face to face dimension according CMO standard.

GENERAL APPLICATIONS
This knife gate valve is appropriate for very abrasive and difficult applications where the valve can suffer a big damage. It is mainly used in paper recycling plants located in pulper junk traps and in general in places where hard particles (like metal clips and stones) are present in the media.
It is always installed in horizontal position and the difference in section from the inlet (round) to the outlet (square and bigger) allows to the solids to move free avoiding the jamming of the gate.

ACCESSORIES FOR E – DT SERIES
Mirror Polished Gate, PTFE Lined Gate, Stellited gate
Scraper in the packing
Air injection in the packing gland, Heating jacket, Flushing holes in body
Mechanical Limit Switches, Inductive Switches and Positioners, Solenoid valves
Connection electrical boxes, electrical wiring and pneumatic piping
Stroke limiting mechanical stops, Mechanical locking device
Emergency manual actuator (hand wheel /gear box)
Triangular (V-notch) and pentagonal diaphragm with indication rule

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**SERIES F**

**KNIFE GATE VALVES**

**PRODUCT DESCRIPTION**
Wafer style, uni-directional knife gate valve.
One piece integral cast body with guides to support the gate and seating wedges.
High flow rates with low pressure drops.
Several seat and packing materials available.
Face to face dimension according CMO standard.
Arrow in the body pointing the flow direction:
In this type of knife gate valve the arrow points the flow direction in "off seating" direction. This means that the flow forces the gate to separate from the seat.

**GENERAL APPLICATIONS**
This knife gate valve is appropriate for applications with dry products like dust, powders and grain. Designed for a wide range of applications such as:
- Mining.
- Chemical plants.
- Food industry.
- Power plants.

**TECHNICAL DATA FOR F – FK SERIES**

**Standard manufacturing sizes:**
From DN50 up to DN1200 (bigger sizes under request)

**Working pressures:**
From DN 50 to DN 125: 3 (kg/cm²) DN 150: 2.5 (kg/cm²) DN 200: 2 (kg/cm²) From DN 250 to DN 300: 1.5 (kg/cm²) From DN 350 to DN 400: 1.3 (kg/cm²) From DN 450 to DN 600: 1 (kg/cm²) From DN 700 to DN 1200: 0.7 (kg/cm²)

**Flange connection drillings:**
The standard flange connection is according to DIN PN10. Other flange connections such as, ANSI 150, DIN PN6 – PN16 – PN25, British Standard, Australian Standard, JIS Standard, are available under request.

**Applied Directives:**

**Quality Dossier:**
All valves are hydrostatically tested at CMO with water and CMO material and test certificates can be provided.
Body test pressure = Maximum rated pressure x 1,5  Seat test pressure = Maximum rated pressure x 1,1

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**SERIES FK**

**KNIFE GATE VALVES**

**PRODUCT DESCRIPTION**
Wafer style, uni-directional knife gate valve.
One piece integral cast body with guides to support the gate, seating wedges and **bolted bonnet**.
High flow rates with low pressure drops.
Several seat and packing materials available.
Face to face dimension according CMO standard.
Arrow in the body pointing the flow direction:
In this type of knife gate valve the arrow points the flow direction in "off seating" direction. This means that the flow forces the gate to separate from the seat.

**GENERAL APPLICATIONS**
This knife gate valve is appropriate for applications with dry products like dust, powders and grain containing air or gases. As a general rule, it is used for dry solids in gravity feed applications **containing also air or gases**.

Designed for a wide range of applications such as:
- Mining.
- Chemical plants.
- Food industry.
- Power plants.

**ACCESORIES FOR F – FK SERIES**

- Mirror Polished Gate
- PTFE Lined Gate
- Stellited gate
- Scraper in the packing
- Air injection in the packing gland
- Heating jacket
- Flushing holes in body
- Mechanical Limit Switches, Inductive Switches and Positioners
- Solenoid valves
- Connection electrical boxes, electrical wiring and pneumatic piping
- Stroke limiting mechanical stops
- Mechanical locking device
- Emergency manual actuator (hand wheel /gear box)
- Triangular (V-notch) and pentagonal diaphragm with indication rule
PRODUCT DESCRIPTION
Wafer style, bidirectional knife gate valve. Cast body monoblock type, with inside sliding guides to provide a smooth operation. High flow rates with low pressure drops. Several seat and packing materials available. Face to face dimension according CMO standard.

GENERAL APPLICATIONS
This knife gate valve is specially recommended for mining industry in slurry transportation pipe lines (water with stones, mud etc) but it also can be used in other industries when working with abrasive slurries such as:

- Mining
- Chemical plants
- Fertilizer plants
- Sewage & Waste Water applications
- Pulp & Paper
- Power Generation

TECHNICAL DATA
Standard manufacturing sizes:
From DN50 up to DN600 (bigger sizes under request)

Working pressures:
From DN50 to DN600: 10 (kg/cm²) – 150PSI
Higher working pressures under request

Flange connection drillings:
The standard flange connection is according to DIN PN10 & ANSI 150
Other flange connections are available under request.

Applied Directives:

Quality Dossier: All valves are hydrostatically tested at CMO with water and CMO material and test certificates can be provided.
Body test pressure = Maximum rated pressure x 1.5
Seat test pressure = Maximum rated pressure x 1.1

GM SERIES
Knife gate valve of double Cast Iron GG25 body bolted construction, for slurry applications and lower pressures.
From DN 50 to DN 125: 10 (kg/cm²)
DN 150: 8 (kg/cm²)
DN 200: 7 (kg/cm²)
From DN 250 to DN 300: 5 (kg/cm²)
From DN 350 to DN 400: 4 (kg/cm²)
From DN 450 to DN 600: 3 (kg/cm²)
From DN 700 to DN 1200: 2 (kg/cm²)

ASK FOR MORE INFORMATION

ACCESSORIES & ACTUATORS
- Mirror Polished Gate
- Stellite gate
- PTFE Lined Gate
- Scraper in the packing
- Air injection in the packing gland
- Mechanical Limit Switches, Inductive Switches and Positioners
- Solenoid valves
- Connection electrical boxes, electrical wiring and pneumatic piping
- Stroke limiting mechanical stops
- Mechanical locking device
- Emergency manual actuator (hand wheel /gear box)
PRODUCT DESCRIPTION
Wafer style, uni-directional knife gate valve. Bidirectional (optional)
One piece integral cast body with guides to support the gate, seating wedges and bolted bonnet
High flow rates with low pressure drops. Several seat and packing materials available.
Face to face dimension according CMO standard.
Arrow on the body pointing the flow direction.

GENERAL APPLICATIONS
This knife gate valve is appropriate for clean liquids and gases (without solids).
If a small percentage of dust or powder is present in the fluid its vertical installation is recommended.
Designed for a wide range of applications such us:
- Water applications.
- Pneumatic transports.
- Liquid bitumen handling
- Industrial applications.

TECHNICAL DATA
Standard manufacturing sizes:
From DN50 up to DN1200 (bigger sizes under request)

Working pressures:
From DN 50 to DN 125: 10 (kg/cm2)
DN 150: 8 (kg/cm2)
DN 200: 7 (kg/cm2)
From DN 250 to DN 300: 5 (kg/cm2)
From DN 350 to DN 400: 4 (kg/cm2)
From DN 450 to DN 600: 3 (kg/cm2)
From DN 700 to DN 1200: 2 (kg/cm2)

Flange connection drillings:
The standard flange connection is according to DIN PN10.
Other flange connections such as, ANSI 150, DIN PN6 – PN16 – PN25, British Standard, Australian Standard, JIS Standard, are available under request.

Applied Directives:

Quality Dossier:
Body test pressure = Maximum rated pressure x 1,5
Seat test pressure = Maximum rated pressure x 1,1

ACCESSORIES & ACTUATORS
Mirror Polished Gate
Stellited gate
PTFE Lined Gate
Scraper in the packing
Air injection in the packing gland
Mechanical Limit Switches, Inductive Switches and Positioners
Solenoid valves
Connection electrical boxes, electrical wiring and pneumatic piping
Stroke limiting mechanical stops
Mechanical locking device
Emergency manual actuator (hand wheel /gear box)
SERIES L

KNIFE GATE VALVES

PRODUCT DESCRIPTION
Wafer style, bidirectional knife gate valve.
Cast body, composed by two bolted parts, with inside sliding guides to provide a smooth operation.
High flow rates with low pressure drops.
Several seat and packing materials available.
Face to face dimension according CMO standard.

GENERAL APPLICATIONS
This knife gate valve is appropriate for liquids with a solids concentration of maximum 20%.
It is also recommended in applications under silos with dry and fine particles because of the way in which cuts the flow and high consistency mediums.
Designed for a wide range of applications such as:
- Pulp and Paper.
- Mining.
- Effluent handling plants.
- Chemical plants.
- Food and beverage.
- Bulk conveying.
- Sewage applications.
- Chemical plants.

TECHNICAL DATA
Standard manufacturing sizes:
From DN50 up to DN1200 (bigger sizes under request)

Working pressures:
From DN 50 to DN 125: 10 (kg/cm²)
DN 150: 8 (kg/cm²)
DN 200: 7 (kg/cm²)
From DN 250 to DN 300: 5 (kg/cm²)
From DN 350 to DN 400: 4 (kg/cm²)
From DN 450 to DN 600: 3 (kg/cm²)
From DN 700 to DN 1200: 2 (kg/cm²)

Flange connection drillings:
The standard flange connection is according to DIN PN10.
Other flange connections such as,
ANSI 150, DIN PN6 – PN16 – PN25, British Standard, Australian Standard, JIS Standard, are available under request.

Applied Directives:
Directive 98/37/CE (machinery),

Quality Dossier:
All valves are hydrostatically tested at CMO with water and CMO material and test certificates can be provided.
Body test pressure = Maximum rated pressure x 1.5
Seat test pressure = Maximum rated pressure x 1.1

ACCESSORIES & ACTUATORS
✓ Any type of actuator available except manual lever.
Rising or non Rising stem
✓ Any type of soft sealing: Nitrile, Viton, Silicon etc. Metal or PTFE Not available
✓ Mirror Polished Gate, PTFE Lined Gate, Stellited gate, Scraper in the packing, Air injection in the packing gland, Heating jacket, Flushing holes in body, Mechanical Limit Switches, Inductive Switches and Positioners, Solenoid valves, Connection electrical boxes, electrical wiring and pneumatic piping, Stroke limiting mechanical stops, Mechanical locking device, Emergency manual actuator (hand wheel /gear box), Triangular (V-notch) and pentagonal diaphragm with indication rule
PRODUCT DESCRIPTION
Wafer style swing (also called tilting disc) check valve. Also flanged construction available under request. One piece integral cast body with conically shaped inside to allow easy flowing of solid particles. Face to face dimension according CMO standard. Arrow in the body pointing the flow direction.

GENERAL APPLICATIONS
This valve is appropriate for liquids with a solids concentration of maximum 5%. Designed for a wide range of applications such as:
- Pulp and Paper.
- Effluent handling plants.
- Chemical plants.
- Food and beverage.
- Sewage applications.

TECHNICAL DATA
Standard manufacturing sizes:
From DN50 up to DN1200 (bigger sizes under request)

Working pressures:
Diameters DN 50 to DN 600:
From 10 (kg/cm²) to 64 (kg/cm²)
Diameters DN 700 to DN 1200:
From 10 (kg/cm²) to 25 (kg/cm²)

Flange connection:
The standard flange connection is according to DIN PN10. Other flange connections such as, ANSI 150, DIN PN6 – PN16 – PN25, British Standard, Australian Standard, JIS Standard, are available under request.

Applied Directives:

Quality Dossier: All valves are hydrostatically tested at CMO with water and CMO material and test certificates can be provided. Body test pressure = Maximum rated pressure x 1,5
Seat test pressure = Maximum rated pressure x 1,1 (Excellent tightness according to API 598)

NEW SERIES R FOR COMBINED CYCLE PLANTS
Combination of Flanged type Check Valve and Butterfly Valve with Hydraulic Cylinder and Counterweight used in Combined Cycle Power Stations

ASK FOR MORE INFORMATION

ACCESORIES & ACTUATORS
Spring Loaded Disc: The check valves can be supplied with a stainless steel spring on the shaft which will help during the closing operation and increase the closing speed.

Counterweight and Shock Absorber: The counterweight and shock absorber system is used to control the closing speed of the disc and, at the same time, reduce the effects of the water hammer. The shock absorber is composed by a hydraulic cylinder and an oil tank which are connected by hydraulic piping.
PRODUCT DESCRIPTION

Lugged style, uni-directional (optional bidirectional design) knife gate valve designed according with MSS-SP-81 and TAPPI TIS 405-8 standards.

One piece integral cast body with guides to support the gate and seating wedges.

High flow rates with low pressure drops.

Several seat and packing materials available.

Two face to face dimensions available: according CMO standard and according to TAPPI standard. Arrow in the body pointing the flow direction.

GENERAL APPLICATIONS

This knife gate valve is appropriate for liquids with a solids concentration of maximum 5%.

If it is used for dry solids in gravity feed applications it is recommended to be installed with the arrow in the opposite direction to the flow direction.

Designed for a wide range of applications such as:
- Pulp and Paper.
- Mining.
- Effluent handling plants.
- Chemical plants.
- Food and beverage.
- Bulk conveying.
- Sewage applications.
- Chemical plants.

TECHNICAL DATA

Standard manufacturing sizes:
From DN50 up to DN1200 (bigger sizes under request)

Working pressures:
From DN 50 to DN 600: 10 (kg/cm²) – 150psi (bigger sizes under request)

Flange connection drillings:
The standard flange connection is according to DIN PN10.

Other flange connections such as, ANSI 150, DIN PN6 – PN16 – PN25, British Standard, Australian Standard, JIS are available under request.

Applied Directives:

Quality Dossier:
All valves are hydrostatically tested at CMO with water and CMO material and test certificates can be provided.

Body test pressure = Maximum rated pressure x 1,5
Seat test pressure = Maximum rated pressure x 1,1

ACCESORIES & ACTUATORS

- Any type of actuator available. Rising or non rising stem
- Any type of soft sealing: Nitrile, Viton, Silicon, PTFE etc. Also metal seat available
- All kind of accessories available: Deflector cone, Reinforced socket, Diaphragm, Mechanical Limit Switches, Inductive Switches and Positioners, Solenoid valves, Connection electrical boxes, electrical wiring and pneumatic piping, Stroke limiting mechanical stops, Mechanical locking device, Emergency manual actuator (hand wheel / gear box), Flushing Holes, Bonnet, etc.
**SERIES B**

**KNIFE GATE VALVES**

**PRODUCT DESCRIPTION**
Wafer style, bidirectional knife gate valve. Cast body, composed by two bolted parts, with inside sliding guides to provide a smooth operation. High flow rates with low pressure drops. Several seat and packing materials available. Face to face dimension according CMO standard.

**GENERAL APPLICATIONS**
This knife gate valve is appropriate for liquids with a solids concentration of maximum 8%. Low concentration fluids like paper pulp with low concentration, slurries,... Designed for a wide range of applications such as:
- Pulp and Paper.
- Mining.
- Effluent handling plants.
- Chemical plants.
- Food and beverage.
- Bulk conveying.
- Sewage applications.
- Chemical plants.

**TECHNICAL DATA FOR B-U SERIES**

<table>
<thead>
<tr>
<th>Standard manufacturing sizes:</th>
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</thead>
<tbody>
<tr>
<td>From DN80 up to DN600 (bigger sizes under request)</td>
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</table>

<table>
<thead>
<tr>
<th>Working pressures:</th>
</tr>
</thead>
<tbody>
<tr>
<td>From DN 80 to DN 125: 10 (kg/cm²)</td>
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<tr>
<td>DN 150: 8 (kg/cm²)</td>
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<tr>
<td>DN 200: 7 (kg/cm²)</td>
</tr>
<tr>
<td>From DN 250 to DN 300: 5 (kg/cm²)</td>
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<tr>
<td>From DN 350 to DN 400: 4 (kg/cm²)</td>
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<tr>
<td>From DN 450 to DN 600: 3 (kg/cm²)</td>
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<table>
<thead>
<tr>
<th>Flange connection drillings:</th>
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<tbody>
<tr>
<td>The standard flange connection is according to DIN PN10.</td>
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<tr>
<th>Applied Directives:</th>
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<table>
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<tr>
<th>Quality Dossier:</th>
</tr>
</thead>
<tbody>
<tr>
<td>All valves are hydrostatically tested at CMO with water and CMO material and test certificates can be provided.</td>
</tr>
<tr>
<td>Body test pressure = Maximum rated pressure x 1.5</td>
</tr>
<tr>
<td>Seat test pressure = Maximum rated pressure x 1.1</td>
</tr>
</tbody>
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**SERIES U**

**KNIFE GATE VALVES**

**PRODUCT DESCRIPTION**
Wafer style, unidirectional knife gate valve. Cast body, composed by two bolted parts, with inside sliding guides to provide a smooth operation. High flow rates with low pressure drops. Several seat and packing materials available. Face to face dimension according CMO standard. Arrow pointing in the flow direction in the valve body.

**GENERAL APPLICATIONS**
High concentration flows and solids like granulated coal, also used for food applications and animal waste applications. If it is used for dry solids in gravity feed applications it is recommended to be installed with the arrow in the opposite direction to the flow direction. Designed for a wide range of applications such as:
- Pulp and Paper.
- Mining.
- Effluent handling plants.
- Food and beverage.
- Bulk conveying.
- Sewage applications.
- Chemical plants.

**ACCESSORIES FOR B-U SERIES**
Mirror Polished Gate, PTFE Lined Gate, Stellited gate Scraper in the packing Air injection in the packing gland, Heating jacket, Flushing holes in body Mechanical Limit Switches, Inductive Switches and Positioners, Solenoid valves Connection electrical boxes, electrical wiring and pneumatic piping Stroke limiting mechanical stops, Mechanical locking device Emergency manual actuator (hand wheel /gear box) Triangular (V-notch) and pentagonal diaphragm with indication rule
**PRODUCT DESCRIPTION**

3 or 4 ways plug valves. T shape, L shape and straight pass options.

**GENERAL APPLICATIONS**

Paper stock distribution.
Actuators: Manual, pneumatic, electric ....

**TECHNICAL DATA**

**Standard manufacturing sizes:**
From DN50 up to DN300 - Bigger Sizes under request

**Working pressures:**
From DN 50 to DN 300: 10 (kg/cm²)

**Flange connection drillings:**
The standard flange connection is according to DIN PN10.
Other flange connections such as, ANSI 150, DIN PN6 – PN16 – PN25, British Standard, Australian Standard, JIS are available under request.

**Applied Directives:**
Directive 94/9/CE (ATEX: Group II, Cat. 3 /Zones 2 and 22)

**Quality Dossier:** All valves are hydrostatically tested at CMO with water and CMO material and test certificates can be provided.
Body test pressure = Maximum rated pressure x 1.5
Seat test pressure = Maximum rated pressure x 1.1