

ORBINOX

VALVE SOLUTIONS IN MORE THAN 70 COUNTRIES

Valves for
pulp & paper





Valves for pulp & paper



ORBINOX was founded in Tolosa (northern Spain) during the late 60's as a manufacturer of knife gate valves servicing the local pulp and paper industry. Recognizing that success is built on understanding customers' processes and by finding innovative solutions for difficult applications, we focused on increasing our engineering capabilities and developed many engineered valves for diverse industrial sectors. In the late 70's the company introduced the knife gate valve line in North America and other parts of the world. Today we have manufacturing plants in Spain, Canada, China,

India, UK and Brazil, sales and distribution centers in Spain, UK, Germany, France, Canada, USA, Brazil, China, India and South East Asia; and a network of agents worldwide.

ORBINOX offers a wide range of knife gate valves for handling diverse applications in the pulp & paper, water, wastewater, bulk handling and other process industries. With more than 45 years experience in the industrial market worldwide, and has become a well-known innovative knife gate manufacturer responding to new industrial developments.





EX EK

Unidirectional semi-lugged knife gate valves for general service, assure non-clogging shut off with suspended solids. Fully modular design, available in multiple configurations and sizes, including high-alloy steels.

The **EK** valve is the high performance version. Its cast retainer ring system (K type) improves tightness and simplifies maintenance operations.

Reliable for pulp concentrations up to 5%

Sizes: DN 50 to DN 1200

Working pressure: DN 50 - DN 250 (10 bar)
 DN 300 - DN 400 (6 bar)
 DN 450 (5 bar)
 DN 500 - DN 600 (4 bar)
 DN 700 - DN 1200 (2 bar)

Flange drilling: PN10, ANSI 150 (Other on request)



ET

Heavy duty unidirectional lugged knife gate valve for general service designed according to MSS-SP-81 and TAPPI TIS 405-8, assures non-clogging shut off with suspended solids.

Fully modular design, available in multiple configurations and sizes.

Reliable for pulp concentrations up to 5%

Sizes: DN 50 to DN 900

Working pressure: DN 50 - DN 600 (10 bar)
 DN 750 (7 bar)
 DN 900 (7 bar)

Flange drilling: PN10, ANSI 150 (Other on request)

EB BT



Bi-directional knife gate valves with perimeter seal removing grooves that can collect pulp and prevent the valve from operating properly. Its unique full-bore design with no cavities in the seating area gives excellent flow characteristics and avoids clogging. One or two piece valve body depending on valve size.

Reliable for pulp concentrations up to 8%-10%

Sizes: DN 50 to DN 1200

Working pressure: DN 50 - DN 250 (10 bar)
DN 300 - DN 400 (6 bar)
DN 450 (5 bar)
DN 500 - DN 600 (4 bar)
DN 700 - DN 1200 (2 bar)

The **BT** valve is the heavy duty lugged version designed according to MSS-SP-81 and TAPPI TIS 405-8.

Sizes: DN 50 to DN 600

Working pressure: DN 50 - DN 600 (10 bar)

Flange drilling: PN10, ANSI 150 (Other on request)

TL/TK TH



Bi-directional through conduit knife gate valves for high pulp concentrations and other demanding applications. All versions have a two piece valve body with internal sliders for a smooth gate travel. Fully modular design, available in multiple configurations and sizes, including high-alloy steels.

The **TK** valve is the high performance version. Its cast retainer ring system (K type) improves tightness and simplifies maintenance operations.

Reliable for pulp concentrations up to 18%

Sizes: DN 50 to DN 1000

Working pressure: DN 50 - DN 125 (10 bar)
DN 150 - DN 250 (8 bar)
DN 300 - DN 400 (6 bar)
DN 450 (5 bar)
DN 500 - DN 600 (4 bar)
DN 700 - DN 1000 (2 bar)

The **TH** valve is the heavy duty version suitable for high pressure.

Sizes: DN 300 to DN 1000

Working pressure: DN 300 - DN 800 (10 bar)
DN 900 - DN 1000 (6 bar)

Flange drilling: PN10, ANSI 150 (Other on request)



CR CK

Knife gate valves suitable for reject handling in recycling applications, like junk or sand traps, cleaners, etc.

The **CR** valve has a two piece body with round inlet and square outlet (larger than the inlet) ensuring non-jamming operation. Available in multiple configurations and sizes, such as gate surface treatments or double gland systems.

Sizes: DN 100 to DN 600

Working pressure: DN 100 - DN 400 (7 bar)
DN 500 - DN 600 (4 bar)

The **CK** valve is the fabricated square inlet and outlet version (larger than the inlet), particularly used as bottom valve in Junk Trap systems.

Flange drilling: PN10, ANSI 150 (Other on request)



DT

Double gate bi-directional knife gate valve suitable for handling highly concentrated or contaminated media in recycling applications.

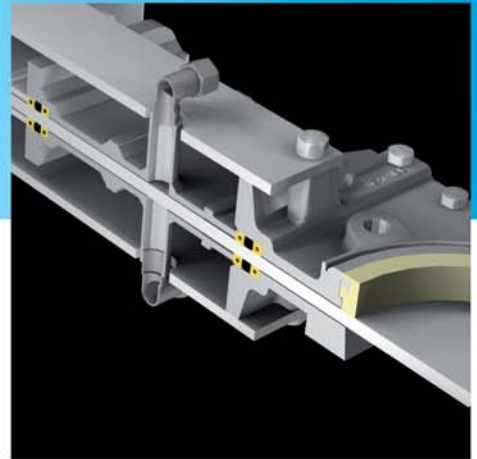
The two piece body with its fully lined low friction interior and double gate design offers extremely fast opening and closing times.

Sizes: DN 100 to DN 600

Working pressure: DN 100 - DN 250 (10 bar)
DN 300 - DN 400 (6 bar)
DN 450 (5 bar)
DN 500 - DN 600 (4 bar)

Flange drilling: PN10, ANSI 150 (Other on request)

JUNK TRAP



Junk trap

The ORBINOX junk trap provides a system to handle reject impurities in pulp and paper applications.

The usual configuration is a **CR** valve as inlet and a **CK** valve as discharge valve with a square and conic shape reject tank between the valves. The tank design and the inclined position of the discharge valve minimize wear.

The valves can be supplied in multiple configurations, such as gate surface treatments, vortex breaker seats or double gland systems.

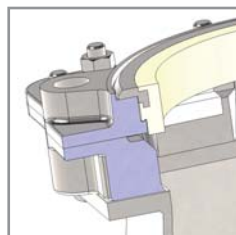
Other valve types can be also used according to customer's choice (i.e. EK, ET, TL/TK as inlet and CR or TL/TK as outlet).

Please contact your Orbinox representative for further information.

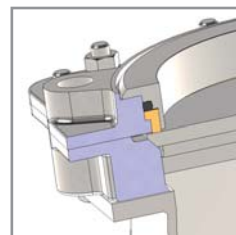
Double packing

For the toughest service conditions this option ensures high cycle packing performance avoiding leakage as a result of gate wear caused by impurities.

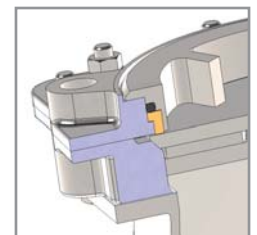
CR Seating options



Polyurethane



Bronze



Bronze + Vortex breaker

Other valves



RM

Tilting disc valve



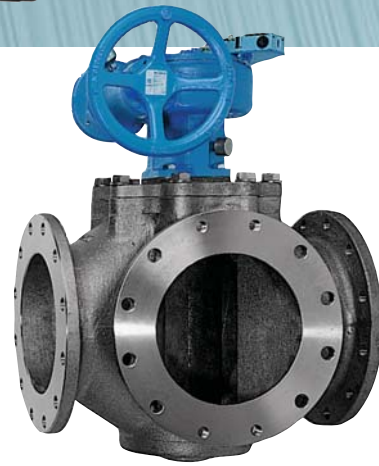
TP

Sampling valve



KP

Transmitter
isolation valve

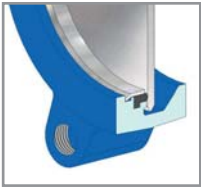


3/4 V

3/4 way valve

Seating options

EX/ET

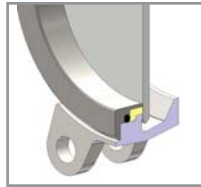


Resilient A type
(standard)

EK

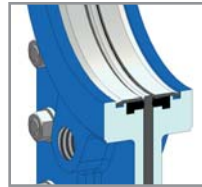


Resilient K type



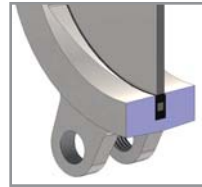
PTFE K type

TL

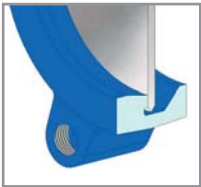


Resilient A type

EB



Resilient seat



Metal to metal

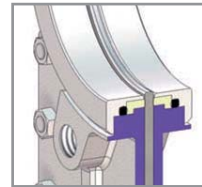


Metal to Metal
K type



Polyurethane
K type

TK



Resilient K type

BT



Resilient seat

Actuator types



Bevel gear



Handwheel
non-rising
stem



Handwheel
rising stem



Pneumatic
cylinder



Electric
actuator



Single acting
cylinder



Hydraulic
cylinder



Chainwheel



Lever



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MEMBER OF THE **AVR** GROUP

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ORBINOX reserves the right to change specifications without notice.

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