

Valves for pulp & paper



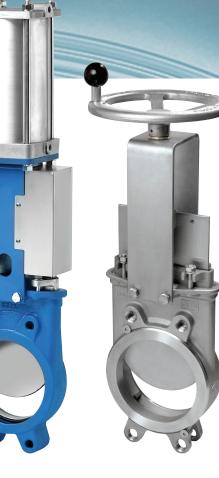


Valves for pulp & paper

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, Chile, Peru, China and India; and a network of distributors 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 55 years experience in the industrial market worldwide, and has become a well-known innovative knife gate manufacturer responding to new industrial developments.







EX EK/HK

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/HK** valves are the high performance versions with a complete stainless steel configuration. Their 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:

EX	EK	
DN 50 - 250 (10	bar) DN 50	- 125 (16 bar)
DN 300 - 400 (6	bar) DN 150	- 250 (10 bar)
DN 450 (5	bar) DN 300	- 400 (6 bar)
DN 500 - 600 (4	bar) DN 450	(5 bar)
DN 700 - 1200 (2	bar) DN 500	- 600 (4 bar)
	DN 700	- 1200 (2 bar)

НК

DN 150 - 300 (10 bar)

The **HK** value is designed to work with off-seating pressures of 3,5bar for DN 150/200, 3 bar for DN 250 and 2 bar for DN 300

Flange drilling: PN 10, ASME B16.5 (Class 150) (Other on request)



Heavy duty unidirectional lugged knife gate valve for general service designed according to MSS-SP-81 and TAPPI TIS 405-8, with stainless steel body, assures nonclogging 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	
=	50 - DN 600 750 900	(10 bar) (7 bar) (7 bar)

Flange drilling: PN 10, ASME B16.5 (Class 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 5%

Sizes:	DN	50 to [DN 1	200	
Working pressure:	DN	50 -	DN	125	(16 bar)
	DN	150 -	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** value is the heavy duty lugged version designed according to MSS-SP-81 and TAPPI TIS 405-8 with stainless steel body.

Sizes:	DN 50 to	DN 90	00	
Working pressure:	DN 50 - DN 750 -			
Flange drilling: on request)				Class 150) (Other







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 12%

Sizes: DN 50 to DN 1000

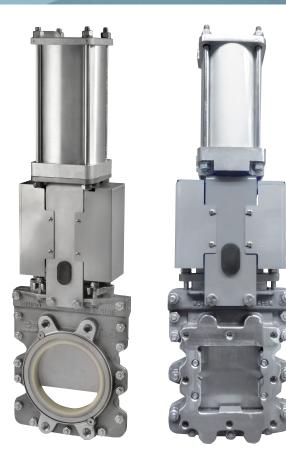
Working pressure:

TL		ТК
DN 50-125	(10 bar)	
DN 150 - 250	(8 bar)	DN 300 - 900 (6/8 bar)
DN 300 - 400	(6 bar)	
DN 450	(5 bar)	
DN 500 - 600	(4 bar)	
DN 700 - 1000	(2 bar)	

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

Sizes: Any size / Any pressure.

Flange drilling: PN 10, ASME B16.5 (Class 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 nonjamming operation. Available in multiple configurations and sizes, such as gate surface treatments or double gland systems.

Sizes:	DN	100	to	DN 600)	
Working pressure:) (7 bar)) (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: PN 10, ASME B16.5 (Class 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 300 DN 450	- DN 250 - DN 400 - DN 600	(6 bar) (5 bar)

Flange drilling: PN 10, ASME B16.5 (Class 150) (Other on request)

JUNK TRAP





Solutions

The **ORBINOX** Junk Trap solution is conceived for reject removal applications in the Pulp and Paper industry, such as pulpers, high consistency cleaners.

The combination of valves depends on the specific application requirements and the customer's experience.

ORBINOX offers numerous valve combinations to better suit each particular case.

The most common solution is composed of **TK** at the inlet and **CR** at the outlet, with a transition between both valves. Other possible combinations: **CR/SK**, **CR/CR**, **TK/TK**, **EK/TK**, **ET/CR**.

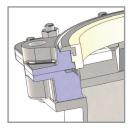
The **CR-SK** combination is the high performance solution for the most severe service conditions.

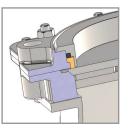
Accessories

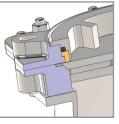
The valves can be fitted with different accessories to make them more durable and better able to withstand the wear caused by rejects. These include bonnets, double packing systems, flush-ports, stainless steel scrapers, as well as different surface hardening treatments of gates and rings.

Seating options

Depending on the service conditions and to improve their performance, the valves can optionally be supplied with different seat configurations; polyurethane, bronze sliders, anti-vortex system, etc.







Polyurethane

Bronze

Bronze + Vortex breaker K-Ring





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