



ORBINOX



PRODUCT RANGE



Anoeta, Spain



ORBINOX

Company Profile:

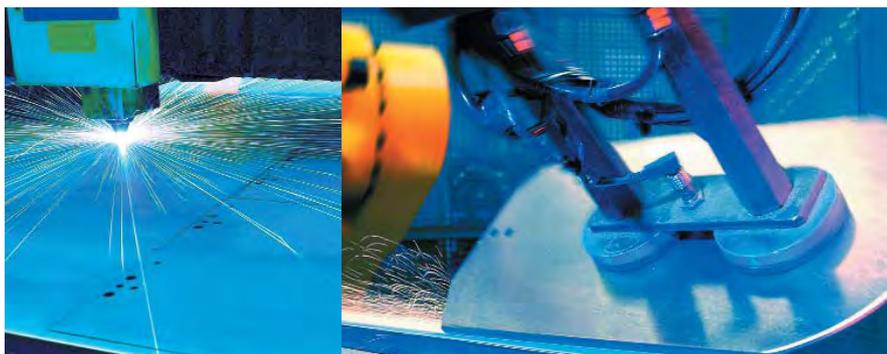
Orbinox was founded in Tolosa (northern Spain) during the late 60's as a manufacturer of knife gate valves servicing the local pulp and paper industry. Recognizing that success is built on understanding customers' processes and by finding innovative solutions for difficult applications, we focused on increasing our engineering capabilities and developed many engineered valves for diverse industrial sectors. In the early 80'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, and India, sales and distribution centers in the USA and the UK with agents worldwide.



ORBINOX offers a wide range of knife gate valves for handling diverse applications in the water, wastewater, bulk handling, pulp & paper and other process industries. With more than 40 years experience in the industrial market worldwide, we have become a well-known innovative knife gate manufacturer responding to new industrial developments.

Our dedicated engineering staff continues to respond to our customers' needs with new and competitive products including custom engineered valves that effectively solve problems in many industrial sectors.

Our state-of-the-art manufacturing facilities and advanced technology assures accuracy, durability, and reliability of our products, which enhances customer profitability and satisfaction. With representation covering the five continents, we are committed to the demanding critical needs of our customers who keep us in the forefront of technology.





Laval, Canada



Coimbatore, India

Quality Management System For Superior Performance:

ORBINOX'S ISO 9001:2000 certification ensures high standards of design and process capability. Thanks to our experienced and dedicated employees' participation in all fields of the organization, we continue to provide a superior quality product and a high performance service.

Our engineering department uses the latest technology of CAD software in the design stage of the product and also analyzes critical components with Infinite Element Analysis software.



ORBINOX production plants utilize modern machining centers and automation technology enabling us to handle large production runs and customized orders. With our international manufacturing and distribution network, we offer quick access to our products worldwide.

Company Philosophy:

Our mission is to meet the needs of our customers and to continue improving our products and services through teamwork, training and performance. The company's growth is balanced on years of experience from research, design, production and marketing with a firm determination to maintain recognition of its quality and service on the market and to remain competitive in the knife gate valve industry.



KNIFE GATE VALVES

EX Wafer knife gate valve

ET Knife gate valve acc. to MSS SP-81



	EX	ET
APPLICATION	General service (solid loaded fluids) pulp & paper, waste water, solids,...	General service (solid loaded fluids) pulp & paper, waste water, solids,...
SIZES	DN 50 to DN 1200 (2" to 48")	DN 50 to DN 750 (2" to 30")
WORKING PRESSURE	DN 50 - 250 (10 bar)/2"-10" (150 psi) DN 300 - 400 (6 bar)/12"-16" (90 psi) DN 450 (5 bar)/18" (75 psi) DN 500-600 (4 bar)/20"-24" (60 psi) DN 700-1200 (2 bar)/28"-48" (30 psi)	DN 50 - DN 600 (10 bar) 2" - 24" (150 psi) DN 750 (7 bar) 30" (100 psi)
FLANGE DRILLING	PN10 ANSI 150 BST D Other on request	PN10 ANSI 150 Other on request



TL

Through conduit
knife gate valve



CR

Round & Square port
knife gate valve



DT

Double gate
knife gate valve



	TL	CR	DT
APPLICATION	Solid loaded fluids (concentration > 5%) pulp, rejects, solids,...	Contaminated pulp and difficult conditions (junk traps, cleaners,...)	Contaminated pulp or very high concentration (pulp, rejects,...)
SIZES	DN 50 to DN 800 (2" to 32")	DN 50 to DN 600 (2" to 24")	DN 100 to DN 600 (4" to 24")
WORKING PRESSURE	DN 50 - 250 (10 bar)/2"-10" (150 psi) DN 300 - 400 (6 bar)/12"-16" (90 psi) DN 450 (5 bar)/18" (75 psi) DN 500-600 (4 bar)/20"-24" (60 psi) DN 700-800 (2 bar)/28"-32" (30 psi)	DN 50 - 600 (10 bar)/2"-24" (150 psi)	DN 50 - 250 (10 bar)/2"-10" (150 psi) DN 300 - 400 (6 bar)/12"-16" (90 psi) DN 450 (5 bar)/18" (75 psi) DN 500-600 (4 bar)/20"-24" (60 psi)
FLANGE DRILLING	PN10 ANSI 150 Other on request	PN10 ANSI 150 Other on request	PN10 ANSI 150 Other on request

KNIFE GATE VALVES

EB Bi-directional
knife gate valve

VG Rubber sleeve
knife gate valve



	EB	VG
APPLICATION	General service (solid loaded fluids) waste water, sludges,...	Abrasive slurries (mining, petrochemical,...)
SIZES	DN 50 to DN 1200 (2" to 48")	DN 50 to DN 600 (2" to 24")
WORKING PRESSURE	DN 50 - 250 (10 bar)/2"-10" (150 psi) DN 300 - 400 (6 bar)/12"-16" (90 psi) DN 450 (5 bar)/18" (75 psi) DN 500-600 (4 bar)/20"-24" (60 psi) DN 700-1200 (2 bar)/28"-48" (30 psi)	DN 50 - 150 (6 bar)/2"-6" (90 psi) DN 200-250 (5 bar)/8"-10" (50 psi) DN 300 (4 bar)/12" (60 psi) DN 350-400 (3 bar)/14"-16" (45 psi) DN 450-600 (2,5 bar)/18"-24" (38 psi)
FLANGE DRILLING	PN10 ANSI 150 Other on request	PN10 ANSI 150 Other on request



XC

Hopper shape
knife gate valve



BC

Square port
knife gate valve



	XC	BC
APPLICATION	Bulk handling (powder, pellets,...) silo outlet applications	General service (solid loaded fluids) bulk handling
SIZES	DN 50 to DN 600 (2" to 24")	200x200 to 600x600 (other on request) (8"x8" to 24"x24")
WORKING PRESSURE	Seat opposite pressure DN 50 - 250 (3 bar)/2"-10" (45 psi) DN 300 - 400 (2 bar)/12"-16" (30 psi) DN 450 (1,5 bar)/18" (23 psi) DN 500-600 (1 bar)/20"-24" (15 psi)	200x200 (2,5 bar)/8"x8" (38 psi) 250x250 and 300x300 (2 bar)/10"x10" and 12"x12" (30 psi) 350x350 and 400x400 (1,5 bar)/14"x14" and 16"x16" (23 psi) 450x450 (1,25 bar)/18"x18" (19 psi) 500x500 and 600x600 (1 bar)/20"x20" and 24"x24" (15 psi)
FLANGE DRILLING	PN10 ANSI 150 Other on request	ORBINOX Standard

ACTUATORS

Handwheel
(rising stem)



Handwheel
(non rising stem)



Pneumatic
double acting



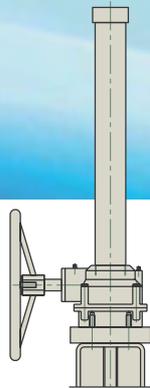
Electric



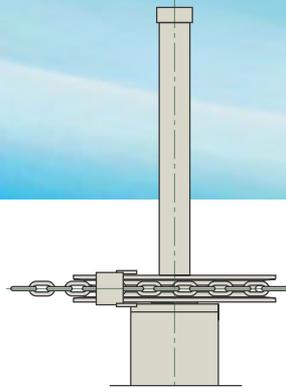
Lever



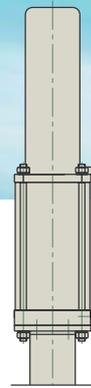
Stem extension
Floorstand



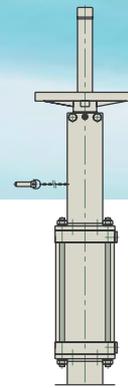
Bevel Gear



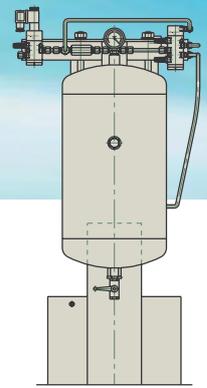
Chainwheel



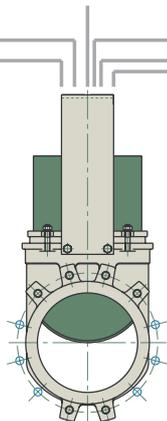
Pneumatic
single acting

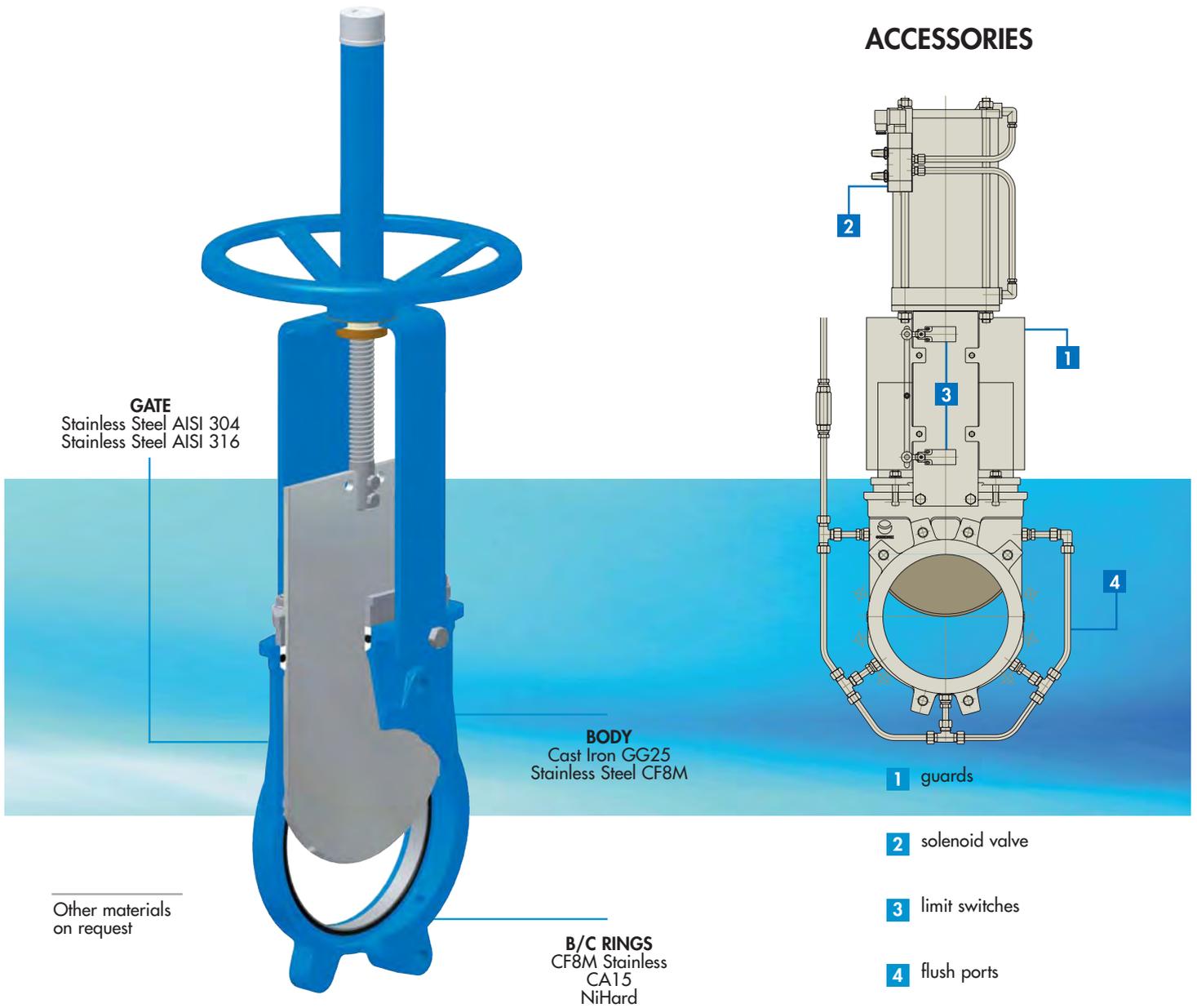


Handwheel emer-
gency actuator

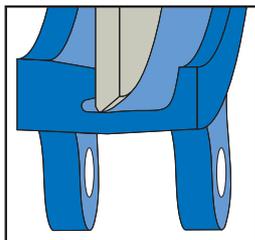


Pneum. emergency
actuator

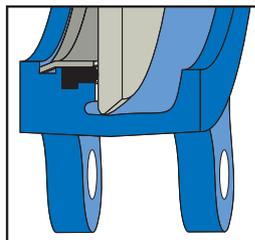




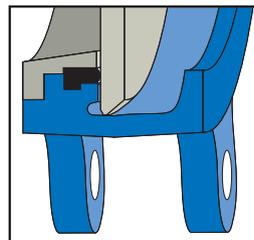
SEATING OPTIONS



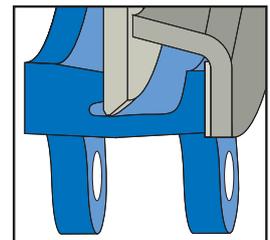
metal to metal



resilient A type (standard)



resilient B type (reinforced)



deflecting cone C type

OTHER STANDARD VALVES

RM Tilting disc check valve



AT Split body knife gate valve



VP Split body bi-directional knife gate valve



3/4V 3 / 4 way valve

TP Sampling valve

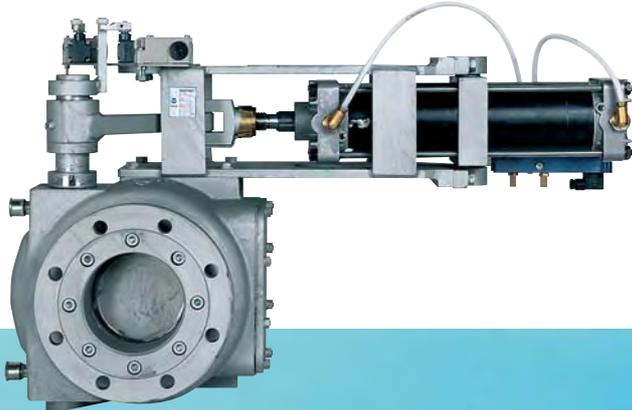


	RM	3/4V	AT	VP	TP
APPLICATION	Solid loaded fluids pulp & paper, waste water	Pulp & paper	Demanding applications pulp & paper, food industry,...	Demanding applications bi-directional	Pulp & paper
SIZES	DN 40 to DN 900 (1 1/2" to 36")	DN 80 to DN 300 (3" to 12")	DN 50 to DN 1000 (2" to 40")	DN 50 to DN 600 (2" to 24")	DN 40 (1 1/2")
WORKING PRESSURE	Up to 25 bar (375 psi) depending on size	10 bar (150 psi)	Up to 10 bar (150 psi) depending on size	Up to 10 bar (150 psi) depending on size	10 bar (150 psi)

SPECIAL ENGINEERED VALVES



SD Swing disc valve



SG Swing knife gate valve



3VY 3 way diverter valve

	SD	SG	3VY
APPLICATION	Bulk handling abrasive services (fly ash,...)	Bulk handling demanding applications	Bulk handling
SIZES	DN 100 to DN 300 (4" to 12")	DN 100 to DN 300 (4" to 12")	DN 50 to DN 250 (2" to 10")
WORKING PRESSURE	up to 3 bar (45 psi)	up to 3 bar (45 psi)	up to 3 bar (45 psi)

SPECIAL ENGINEERED VALVES

CW

Single wedge
knife gate valve

WS

Fabricated Single wedge
knife gate valve



CW

WS

BONNETED VALVES

APPLICATION Solid loaded / hazardous fluids
high pressure

APPLICATION Solid loaded / hazardous fluids
high pressure

APPLICATION Solid loaded / hazardous fluids
available for EX, ET, TL, XC

SIZES DN 80 to DN 900 (3" to 36")

SIZES up to DN 2400 (96")

SIZES up to DN 600 (24")

WORKING PRESSURE Up to 64 bar (960 psi)
depending on size

WORKING PRESSURE Up to 25 bar (375 psi)
depending on size

WORKING PRESSURE Up to 10 bar (150 psi)
depending on size

WALL & CHANNEL SLIDE GATES



Wall (4 side sealing) & Channel (3 side sealing) Slide Gates, Swing check gates with round or rectangular port,... mainly used in waste water treatment plants, irrigation, hydro power stations...

Fabricated in carbon or stainless steel construction, with an elastomer sealing for bubble tight shut-off. Available in a wide range of dimensions and design pressures with either handwheel, pneumatic, electric or hydraulic actuators.

ORBINOX manufactures according to the AWWA C561-04 standard.

CC Channel slide gate



MU Wall slide gate



MC Round wall slide gate



RR Round swing check gate



RC Rectangular swing check gate



DAMPERS

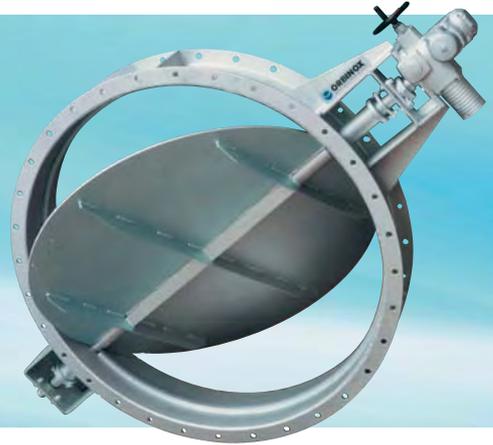
Industrial dampers for regulating, isolating or distributing (3 way) low pressure and high temperature gases for use in cogeneration systems, power plants, steel works,...

Fabricated in a wide variety of different materials of construction and designs (air sealing,...) depending on sizes and working conditions. Available with pneumatic, electric, hydraulic or manual actuator.

DI Multiple diverter damper



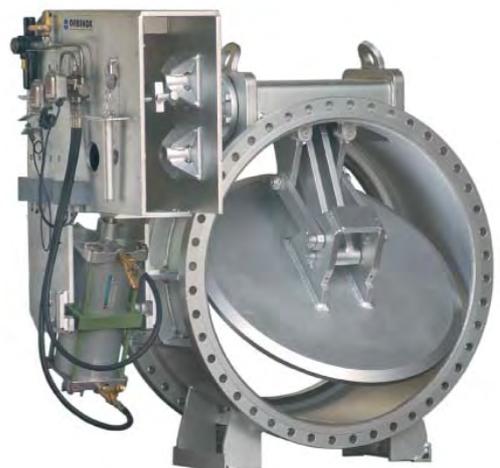
ML Butterfly damper



DV Diverter damper



MP Three lever valve



VALVES FOR HYDRAULIC WORKS



ORBINOX designs and manufactures special valves and gates for regulating and closing flow through the outlet works of dams, and ducts in pumping and hydro power stations.

Rugged fabricated construction, available in a wide range of sizes and special materials to match specific requirements and depending on the head under which the valve will operate.

Available with hydraulic, electric or manual actuator.

BU

Bonneted gates



CT

Radial gates



CV

Roller gates



CH

Howell-bunger valves



MB

Double eccentric butterfly valve

