

# ORBINOX

VALVE SOLUTIONS IN MORE THAN 70 COUNTRIES



PRODUCT RANGE



Anoeta, Spain



# ORBINOX

VALVE SOLUTIONS IN MORE THAN 70 COUNTRIES

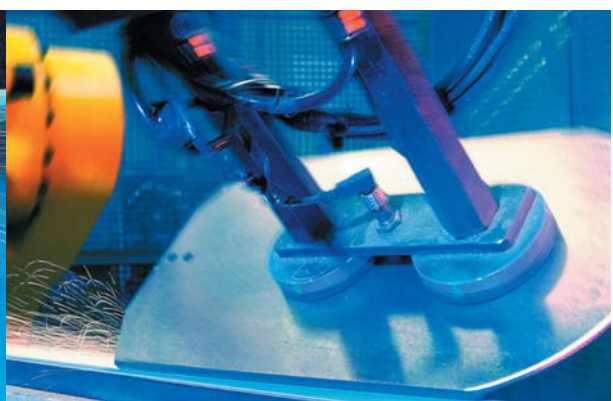
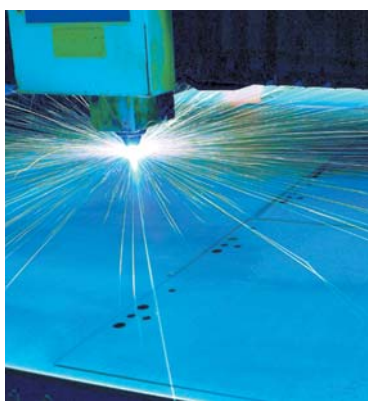
**ORBINOX** was founded in Tolosa (northern Spain) during the late 60's as a manufacturer of knife gate valves servicing the local pulp and paper industry. Recognizing that success is built on understanding customers' processes and by finding innovative solutions for difficult applications, we focused 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, UK, Canada, India and China, complimented by sales distribution centres in the USA, UK, Germany, Spain, France, China, Canada, India, Indonesia and Brazil 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 45 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. ORBINOX ensures high standards of process capability and quality endorsed by the ISO 9001 Quality Management System certification.





Laval, Canada



Coimbatore, India

### **Quality Management System For Superior Performance:**

ORBINOX'S ISO 9001 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 Finite Element Analysis software.



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

### **Company Philosophy:**

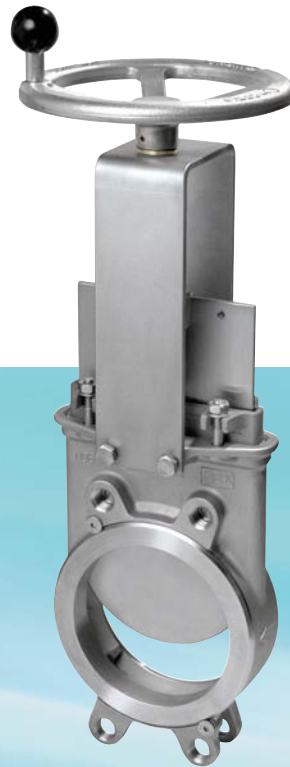
Our mission is to meet the needs of our customers and to continue improving our products and services through teamwork, training and performance. The company's growth is balanced on years of experience from research, design, production and marketing with a firm determination to maintain recognition of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



# KNIFE GATE VALVES

**EX/EK** Wafer knife gate valve

**ET** Knife gate valve acc. to MSS SP-81

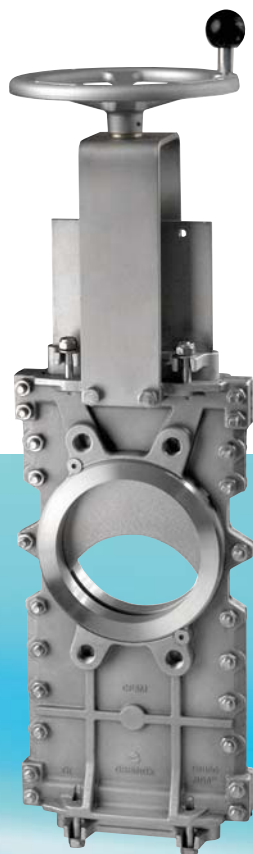


	EX/EK	ET
APPLICATION	General service (solid loaded fluids): pulp & paper, waste water, solids...	General service (solid loaded fluids): pulp & paper, waste water, solids...
SIZES	DN 50 to DN 1200 (2" to 48")	DN 50 to DN 900 (2" to 36")
WORKING PRESSURE	DN 50 - 250 (2"-10") 10 bar DN 300 - 400 (12"-16") 6 bar DN 450 (18") 5 bar DN 500 - 600 (20"-24") 4 bar DN 700 - 1200 (28"-48") 2 bar	DN 50 - DN 600 (2"-24") 10 bar (150 psi) DN 750 (30") 7 bar (100 psi) DN 900 (36") 7 bar (100 psi)
FLANGE DRILLING	PN10 ANSI 150; BST "D" Other on request	PN10 ANSI 150 Other on request



# TL/TK

Through conduit knife gate valve



# CR

Round & Square port knife gate valve



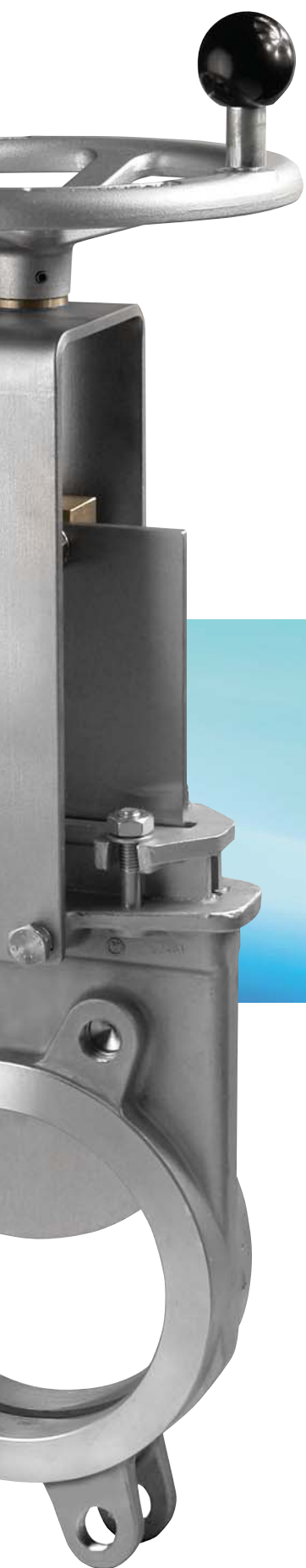
# DT

Double gate knife gate valve



	TL/TK	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 1000 (2" to 40")	DN 100 to DN 600 (4" to 24")	DN 100 to DN 600 (4" to 24")
WORKING PRESSURE	DN 50-125 (2"-5") 10 bar DN 150-250 (6"-10") 8 bar DN 300-400 (12"-16") 6 bar DN 450 (18") 5 bar DN 500-600 (20"-24") 4 bar DN 700-1000 (28"-40") 2 bar	DN 100 - 400 (4"-16") 7 bar DN 500 - 600 (20"-24") 4 bar	DN 100 - 250 (4"-10") 10 bar DN 300 - 400 (12"-16") 6 bar DN 450 (18") 5 bar DN 500 - 600 (20"-24") 4 bar
FLANGE DRILLING	PN10 ANSI 150 Other on request	PN10 ANSI 150 Other on request	PN10 ANSI 150 Other on request

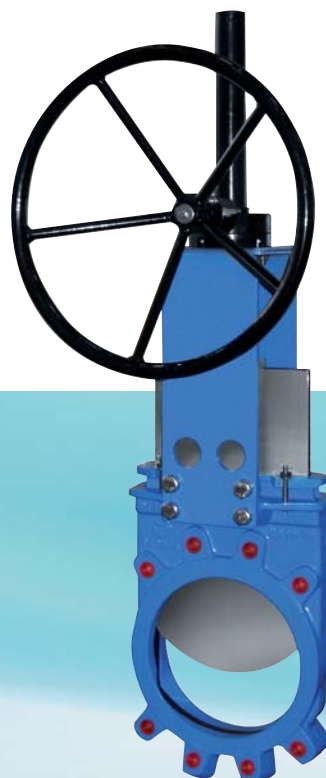
# KNIFE GATE VALVES



**EB** Bi-directional knife gate valve



**HB** Bi-directional high pressure knife gate valve



	EB	HB
APPLICATION	General service (solid loaded fluids) waste water, sludges...	General service (solid loaded fluids) waste water, sludges...
SIZES	DN 50 to DN 1200 (2" to 48")	DN 50 to DN 300 (2" to 12")
WORKING PRESSURE	Monoblock DN 50 - 250 (2"-10") 10 bar DN 300 - 400 (12"-16") 6 bar DN 450 (18") 5 bar DN 500 (20") 4 bar Split body DN 600 (24") 4 bar DN 700-1200 (28"-48") 2 bar	DN 50 - 300 (2"-12") 16 bar
FLANGE DRILLING	PN10; ANSI 150 Other on request	PN16 Other on request



# VG

Rubber sleeve  
knife gate valve



# XC

Hopper shape  
knife gate valve



# BC

Square port  
knife gate valve



	VG	XC	BC
APPLICATION	Abrasive slurries (mining, petrochemical...)	Bulk handling (powder, pellets...) silo outlet applications	General service (solid loaded fluids) bulk handling
SIZES	DN 50 to DN 900 (2" to 36") other on request	DN 50 to DN 600 (2" to 24")	150x150 to 600x600 (6"x 6" to 24"x 24") other on request
WORKING PRESSURE	DN 50-400 (10 bar) 2"-16" (150 psi) DN 450- 600 (6 bar or 10 bar) 18"-24" (90 psi or 150 psi) DN 700-900 (5 bar) 28"-36" (75 psi) Other on request	Off seat pressure DN 50-250 (2"-10") 3 bar DN 300-400 (12"-16") 2 bar DN 450 (18") 1,5 bar DN 500-600 (20"-24") 1 bar	Off seat pressure 150x150 (6"x 6")- 600x600 (24"x 24") 1 bar
FLANGE DRILLING	PN10; ANSI 150 Other on request	PN10; ANSI 150 Other on request	ORBINOX Standard

# ACTUATORS

## MANUALS

Handwheel  
(rising stem)



Handwheel  
(non-rising stem)



Lever



## AUTOMATICS

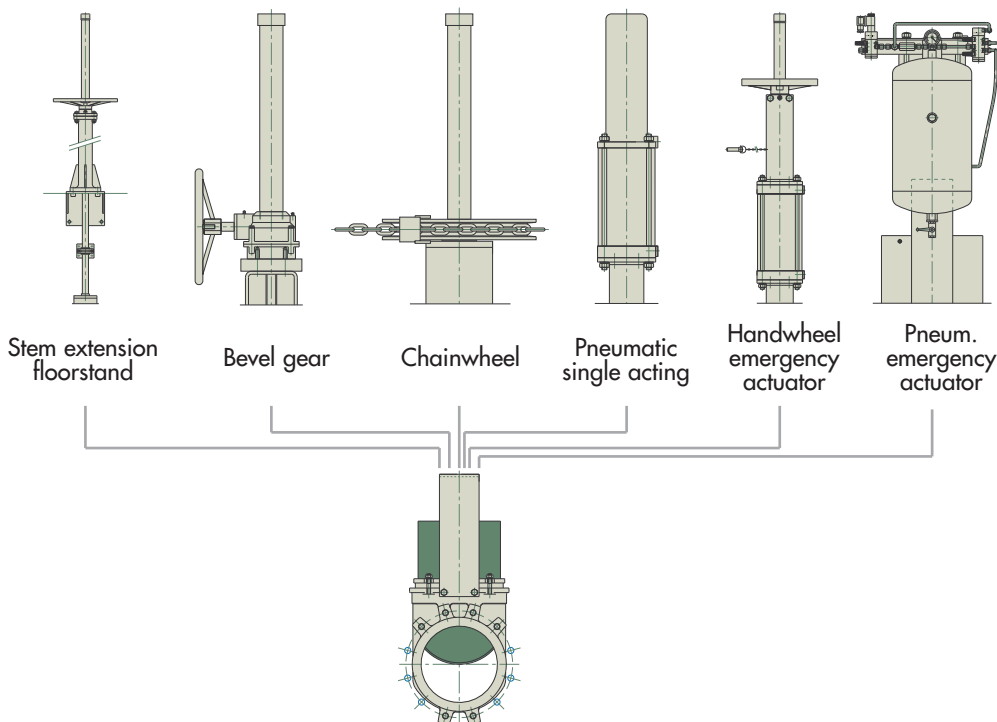
Pneumatic  
double-acting



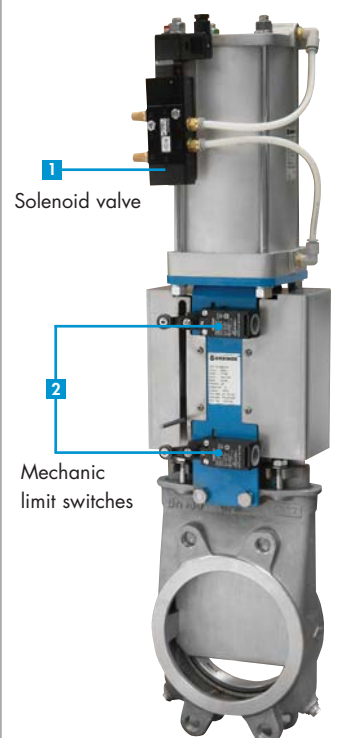
Electric



## MORE ACTUATORS



## ACCESSORIES







## EX/ET/TL

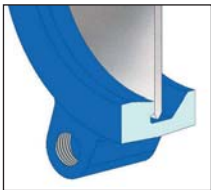
**BODY**  
Cast Iron GG25  
Stainless Steel CF8M

**A/B/C RINGS**  
CF8M Stainless  
CA15  
NiHard

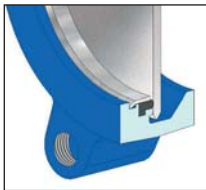
**GATE**  
Stainless Steel AISI 304  
Stainless Steel AISI 316

Other materials  
on request

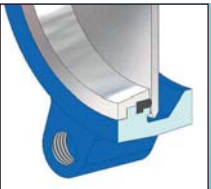
### SEATING OPTIONS



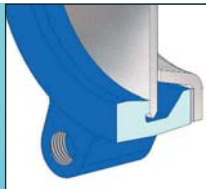
Metal to metal



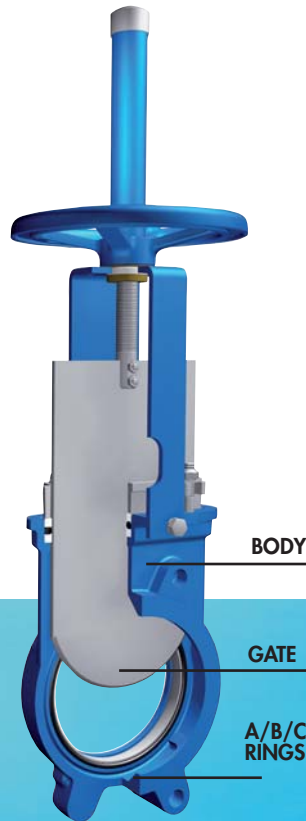
Resilient A type  
(standard)



Resilient B type  
(reinforced)



Deflecting cone C  
type



**BODY**

**GATE**

**A/B/C RINGS**

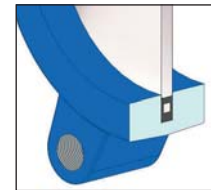
## EB

**BODY**  
Cast Iron GG25  
Stainless Steel CF8M

**GATE**  
Stainless Steel AISI 304  
Stainless Steel AISI 316

Other materials  
on request

### SEAT

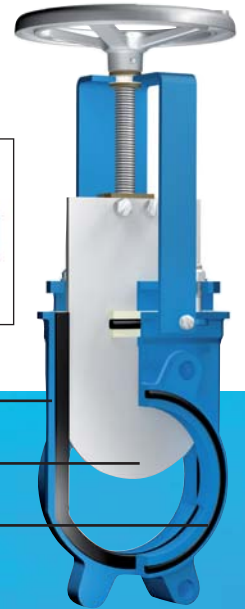


Resilient seat (EB)

**BODY**

**GATE**

**O-RING**



## EK/TK/CR

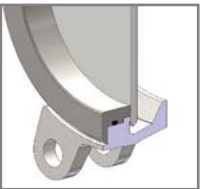
**BODY**  
Stainless Steel CF8M

**K RINGS**  
CF8M Stainless

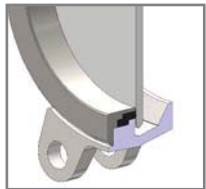
**GATE**  
Stainless Steel AISI 316

Other materials  
on request

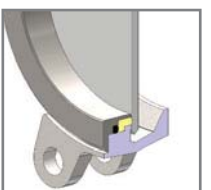
### SEATING OPTIONS



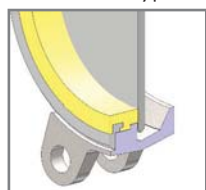
Metal to Metal



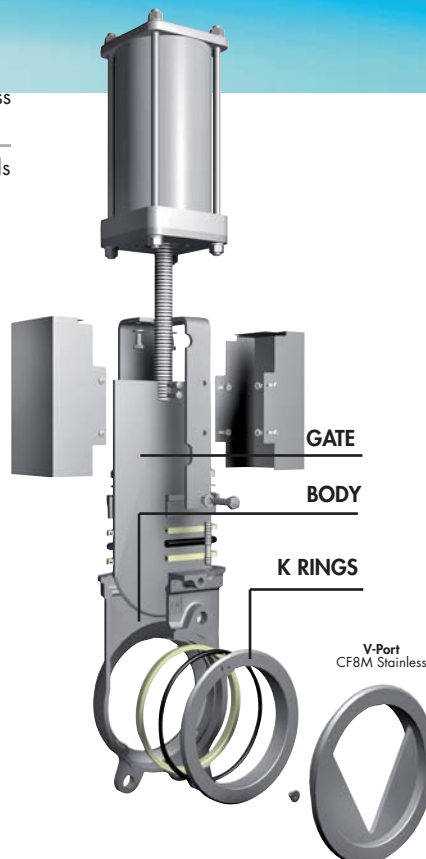
Resilient K type



PTFE K type



Poliurethane seat  
K type



**GATE**

**BODY**

**K RINGS**

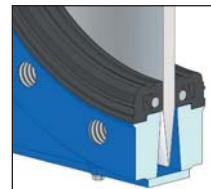
V-Port  
CF8M Stainless

## VG

**BODY**  
Ductile iron A536  
(60-40-18)  
GJS400

**GATE**  
Stainless Steel AISI 304  
Stainless Steel AISI 630  
Duplex

### SEAT

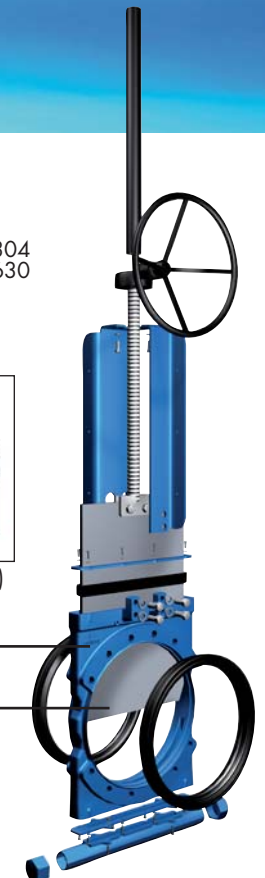


Rubber sleeves (VG)

**BODY**

**GATE**

Other materials  
on request



# OTHER STANDARD VALVES

**RM** Tilting disc check valve



**VP** Split body bi-directional knife gate valve



**TP** Sampling valve



**3/4V** 3 / 4 way valve



**KP** Transmitter isolation valve



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

## BONNETED VALVES

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

up to DN 600 (24")

Up to 10 bar  
depending on size



**CW** Single wedge knife gate valve

**WS** Fabricated single wedge knife gate valve

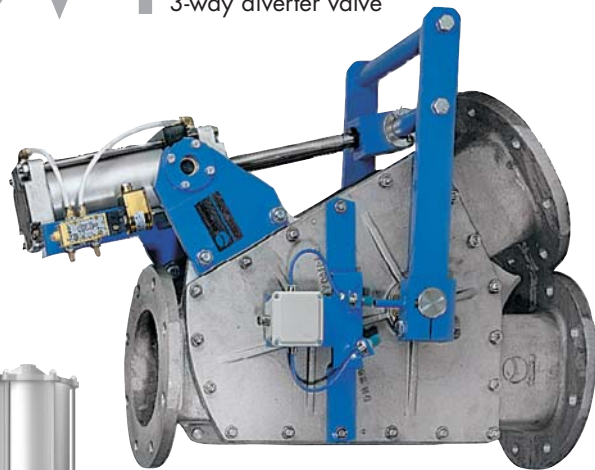


	CW	WS
APPLICATION	Solid loaded / hazardous fluids high pressure	Solid loaded / hazardous fluids high pressure
SIZES	DN 80 to DN 900 (3" to 36")	up to DN 2400 (96")
WORKING PRESSURE	Up to 100 bar depending on size	Up to 40 bar depending on size

# SPECIAL ENGINEERED VALVES

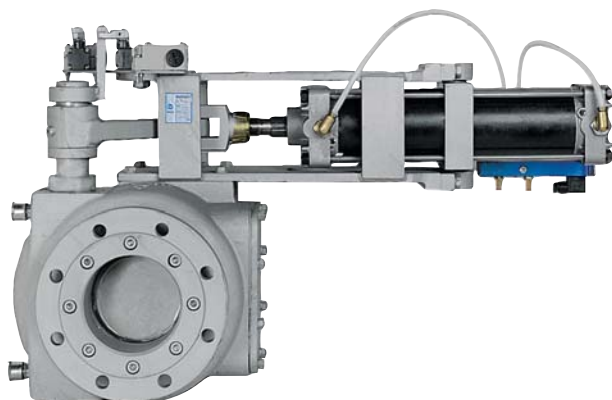
## 3VY

3-way diverter valve



## SD

Swing disc valve



## BX

Coal burner isolation  
(ATEX Cat.1)  
acc. DIN EN 14460



## CX

Burner shut-off  
acc. NFPA-85

	SD	3VY	BX	CX
APPLICATION	Bulk handling abrasive services (fly ash, etc.)	Bulk handling	Coal feeding systems	Burner shut-off
SIZES	DN 100 to DN 300 (4" to 12")	DN 50 to DN 250 (2" to 10")	DN 700 to DN 1000 (28" to 40")	DN 50 to DN 1200 (2" to 48")
WORKING PRESSURE	Up to 3 bar	Up to 3 bar	DN 700 - 1000 (28"-40") 3 bar	DN 50 - 250 (2"-10") 10 bar DN 300 - 400 (12"-16") 6 bar DN 450 (18") 5 bar DN 500 - 600 (20"-24") 4 bar DN 700 - 1200 (28"-48") 2 bar



# WALL & CHANNEL PENSTOCKS

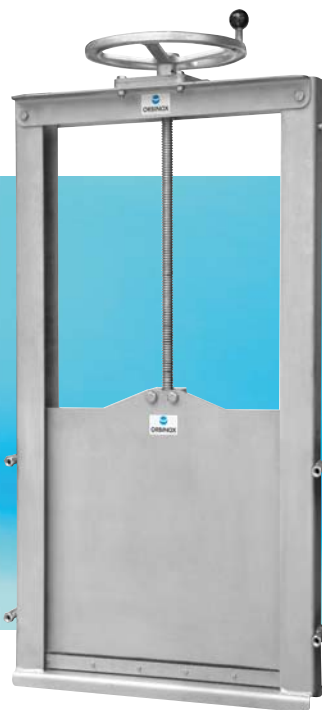
MU Wall Penstocks (4-side sealing), CC Channel Gates (3-side sealing), RB Weir Gates (4-side and 3-side sealing), RR Round and RC Square Flap Gates, AG Stop Gates, SL Stainless Steel Stop Logs and SA Aluminum Stop Stations. Mainly used in waste water treatment plants, irrigation, hydro power stations, ...

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

MU Wall Penstock



CC Channel Penstock



RB Weir Gate



RR/RC Round and Rectangular Flap Gate



AG Stop Gate



SA Aluminum Stop Log



# SPECIAL FABRICATED VALVES AND DAMPERS

Special fabricated valves such as the three-lever MP valve with pneumatic actuator used in air separation plants and the GF Goggle Valve with hydraulic actuator used in the exhaust and gas systems of steel plants.

Light-construction fabricated dampers for low pressure and high temperature gas/air flow diverting, isolation or regulation. Wide variety of different designs (ML butterfly damper, PE louver damper, DI/DV diverter dampers, DG guillotine damper, ST stack damper, etc.), with multiple construction materials and for diverse applications such as power generation systems, gas cleaning systems, cement plants, stack isolation, etc.

Available with pneumatic, electric, hydraulic or manual actuators.

**GF**  
Goggle valve damper



**MP**  
Three lever valve



**ML**  
Butterfly damper



**PE**  
Louver damper



**DI**  
Multiple diverter damper



# 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 actuators.

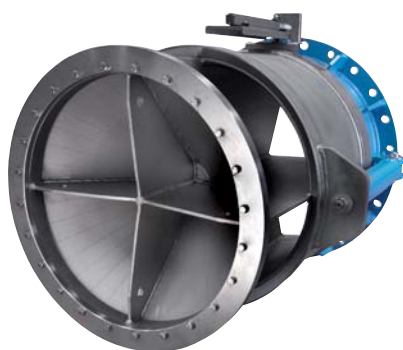
**BU** Bonneted gates



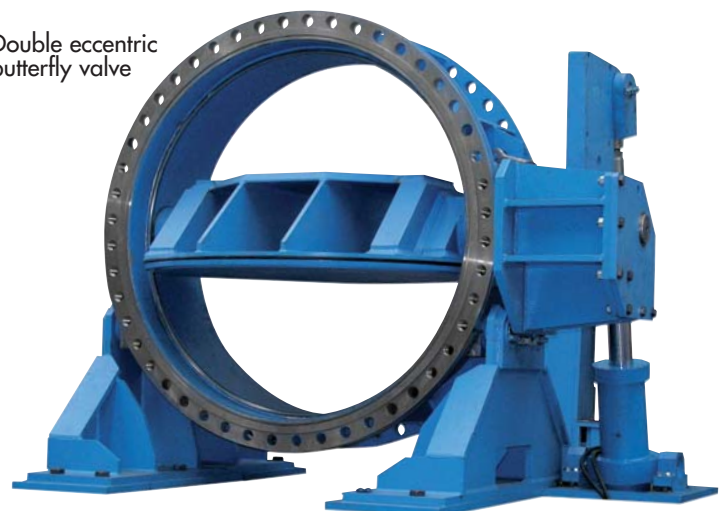
**CT** Radial gates



**CH** Fixed cone valve



**MB** Double eccentric butterfly valve





# ORBINOX

VALVE SOLUTIONS IN MORE THAN 70 COUNTRIES

MEMBER OF THE **AVK** GROUP

## ORBINOX VALVES INTERNATIONAL

Parque Tecnológico de San Sebastián  
Pº Mikeletegui, 56-planta 3ª  
20009 DONOSTIA-SAN SEBASTIÁN-SPAIN  
Tel. + 34 943 69 80 30  
Fax: + 34 943 30 92 83  
e-mail: ovi@orbinox.com

## AVK INTERNATIONAL A/S

Bizonvej 1, Skovby  
8464 Galten  
Denmark  
www.avkvalves.com  
Tel. +45 8754 2100  
Fax: +45 8754 2120

## ORBINOX S.A.

Pol. Industrial s/n  
20270 ANOETA - SPAIN  
Tel. +34 943 69 80 30  
Fax +34 943 65 30 66  
e-mail: orbinox@orbinox.com

## ORBINOX COMERCIAL

Pol. Industrial Beotibar s/n  
20491 BELAUNTA - SPAIN  
Tel. +34 943 69 80 33  
Fax +34 943 65 30 22  
e-mail: comercial@orbinox.com

## ORBINOX, CANADA

2050 Dagenais Blvd. West  
LAVAL, QUEBEC H7L 5W2  
Tel. +1 450 622 87 75  
Fax +1 450 622 68 31  
e-mail: canada@orbinox.com

## ORBINOX, UK

Units 6-7 Clock Park  
Shripney Road - Bognor Regis  
WEST SUSSEX-PO22 9NH  
Tel. +44 (0) 1243 810240  
Fax +44 (0) 1243 870040  
e-mail: uk@orbinox.com

## ORBINOX, GERMANY

Kurzer Morgen 3  
D-58239 SCHWERTE  
Tel. +49 230 49 57 05 70  
Fax +49 230 49 57 05 79  
e-mail: germany@orbinox.com

## ORBINOX, USA

311 North Front Street  
AMORY, MISSISSIPPI 38821  
Tel. +1 662 256 2227  
Fax +1 662 256 2119  
e-mail: usa@orbinox.com

## ORBINOX, INDIA

608/3A-2B, 608/3A-1B,  
Eachanari - Chettipalayam Road,  
Eachanari Post, 641021 COIMBATORE  
Tel. +91 422 6691261  
Fax +91 422 6691106  
e-mail: india@orbinox.com

## ORBINOX, FRANCE

22, Rue Jean Rostand  
69740 GENAS  
Tel. +33 478 04 01 25  
Fax. +33 478 04 03 56  
e-mail: france@orbinox.com

## ORBINOX, BRAZIL

Av. Francisca de Paula Pereira nº75  
12908-535 Bairro SÃO LOURENÇO  
BRAGANÇA PAULISTA-SP  
Tel. +55 11 2277 5994/95/96/97  
Fax +55 11 2277 5997  
e-mail: brasil@orbinox.com

## ORBINOX S.E.A

Jl. Pilar Raya No.47, Kedoya Selatan  
JAKARTA BARAT 11520 INDONESIA  
Tel. +62 21 5835 8866  
Fax: +62 21 5835 8668  
e-mail: orbinox.sea@orbinox.com

## ORBINOX, CHINA

Room I, Floor 21  
ZhaoFeng Universal Building  
No.1800, Zhongshan West Rd.  
Xuhui District, SHANGHAI 200233, CHINA  
Tel. +86(21)64400828 / +86(21)64400508  
Fax: +86(21)64400865  
e-mail: china.sales@orbinox.com

## DAMPER TECHNOLOGY LTD

Meadowbank House,  
Meadowbank Court, Eastwood,  
Nottingham -ENGLAND- NG16 3SL  
Tel. +44 115 9324046  
Fax: +44 115 9324047  
e-mail: sales@dampertechnology.com  
web: www.dampertechnology.com

[www.orbinox.com](http://www.orbinox.com)

