

ORBINOX

VALVE SOLUTIONS IN MORE THAN 70 COUNTRIES



PRODUCT RANGE



Anoeta, Spain

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.

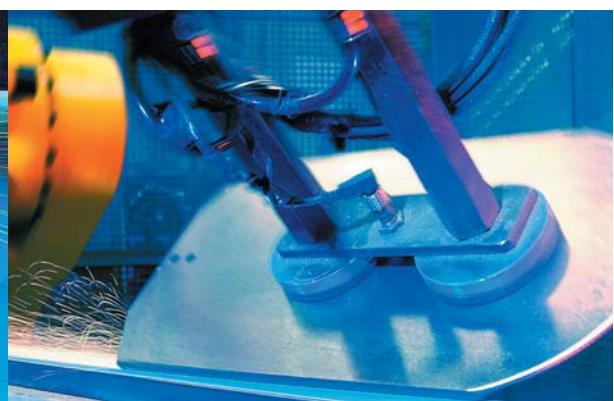
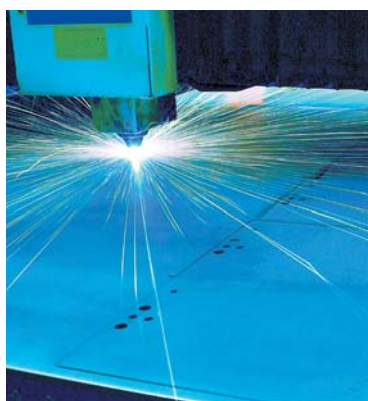


ORBINOX offers a wide range of knife gate valves for handling diverse applications in the water, wastewater, bulk handling, pulp & paper and other process industries. With more than 45 years experience in the industrial market worldwide, we have become a well-known innovative knife gate manufacturer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

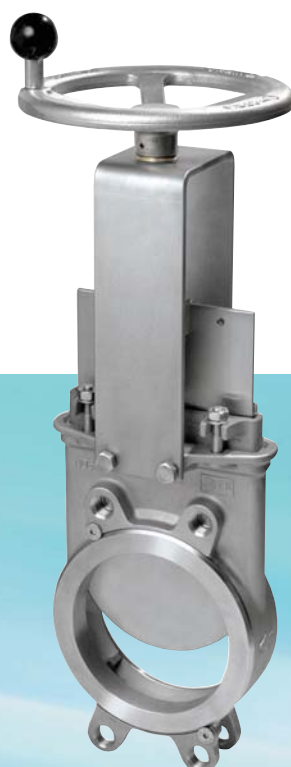
Our mission is to meet the needs of our customers and to continue improving our products and services through teamwork, training and performance. The company's growth is balanced on years of experience from research, design, production and marketing with a firm determination to maintain recognition of 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

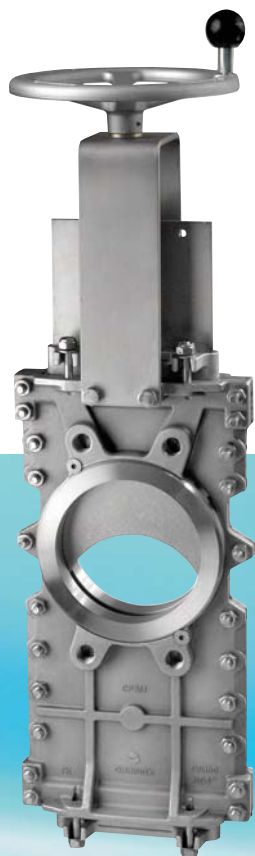


	EX/EK		ET	
APPLICATION	General service (solid loaded fluids): pulp & paper, waste water, solids...		General service (solid loaded fluids): pulp & paper, waste water, solids...	
SIZES	DN 50 to DN 1200 (2" to 48")		DN 50 to DN 900 (2" to 36")	
WORKING PRESSURE	DN 50 - 250 (2"-10")	10 bar	DN 50 - DN 600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



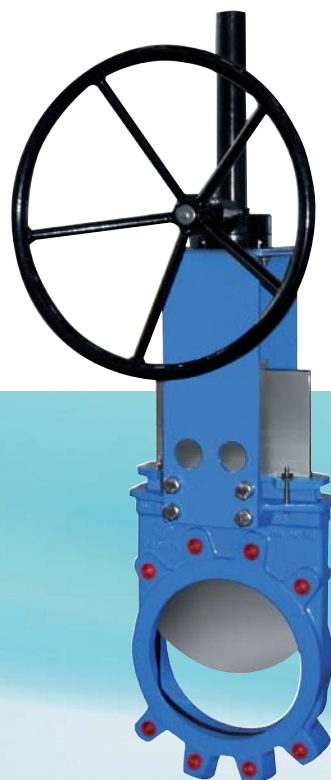
	TL/TK	CR	DT
APPLICATION	Solid loaded fluids (concentration > 5%): pulp, rejects, solids...	Contaminated pulp and difficult conditions (junk traps, cleaners...)	Contaminated pulp or very high concentration (pulp, rejects...)
SIZES	DN 50 to DN 1000 (2" to 40")	DN 100 to DN 600 (4" to 24")	DN 100 to DN 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

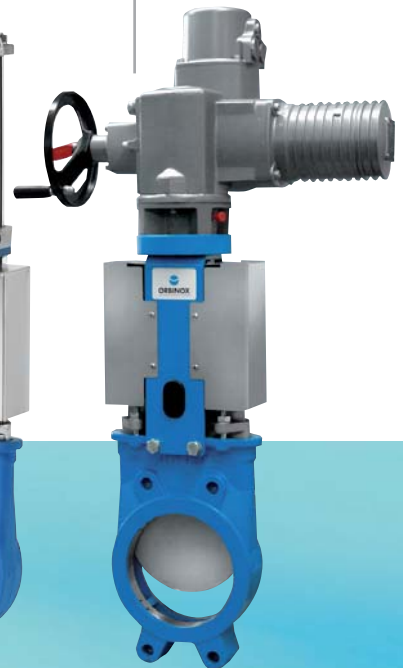


AUTOMATICS

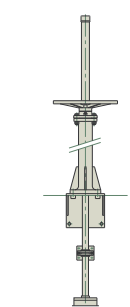
Pneumatic
double-acting



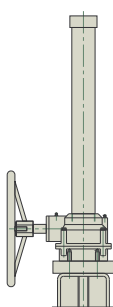
Electric



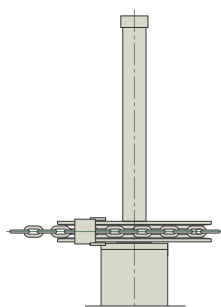
MORE ACTUATORS



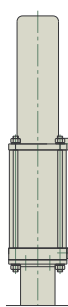
Stem extension
floorstand



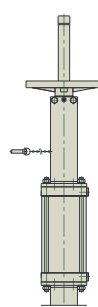
Bevel gear



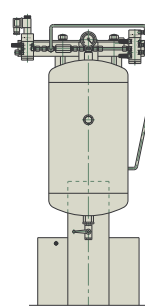
Chainwheel



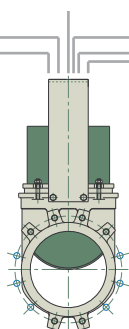
Pneumatic
single acting



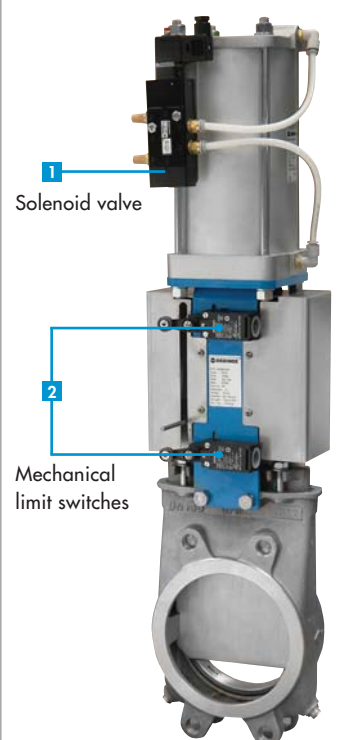
Handwheel
emergency
actuator



Pneum.
emergency
actuator



ACCESSORIES



1
Solenoid valve

2
Mechanical
limit switches



EX/ET/TL

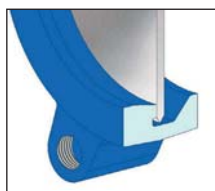
BODY
Cast Iron EN-GJL250
Stainless Steel CF8M

A/B/C RINGS
CF8M Stainless
CA15
NiHard

GATE
Stainless Steel AISI 304
Stainless Steel AISI 316

Other materials
on request

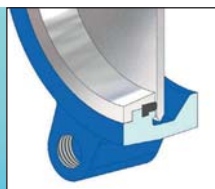
SEATING OPTIONS



Metal to metal



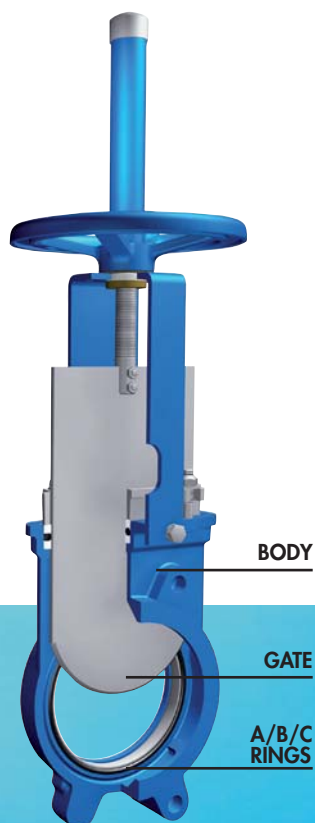
Resilient A type
(standard)



Resilient B type
(reinforced)



Deflection cone C
type



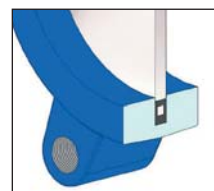
EB

BODY
Cast Iron EN-GJL250
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

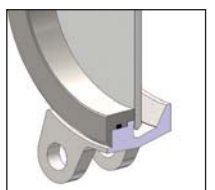
BODY
Stainless Steel CF8M

K RINGS
CF8M Stainless

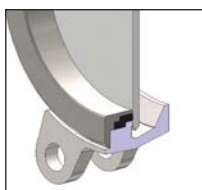
GATE
Stainless Steel AISI 316

Other materials
on request

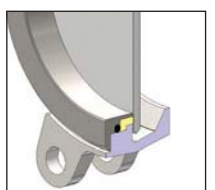
SEATING OPTIONS



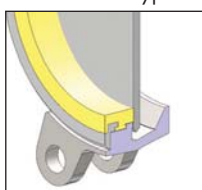
Metal to metal



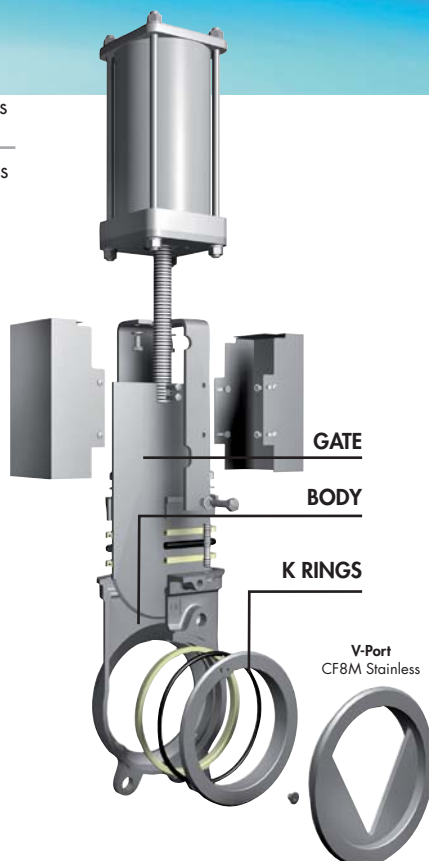
Resilient K type



PTFE K type



Poliurethane seat
K type

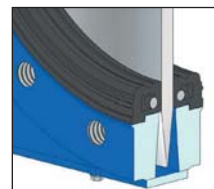


VG

BODY
Ductile iron (60-40-18)
EN-GJS400-18

GATE
Stainless Steel AISI 304
Stainless Steel AISI 630
Duplex

SEAT

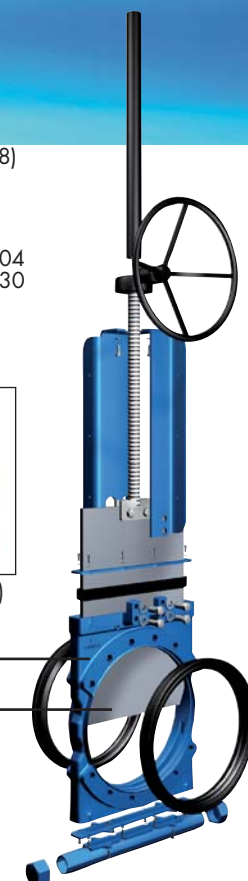


Rubber sleeves (VG)

BODY

GATE

Other materials
on request



OTHER STANDARD VALVES

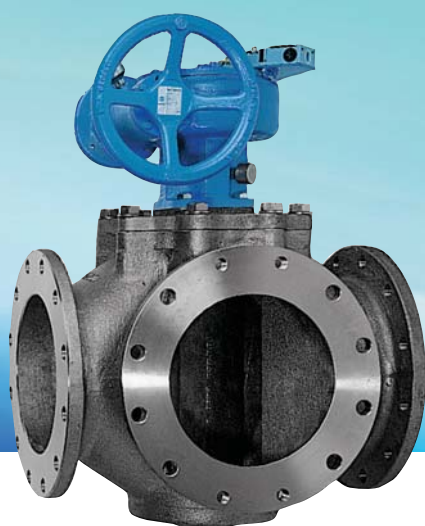
RM Tilting disc check valve



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



SPECIAL ENGINEERED VALVES

CW Single wedge knife gate valve



WS Fabricated single wedge knife gate valve

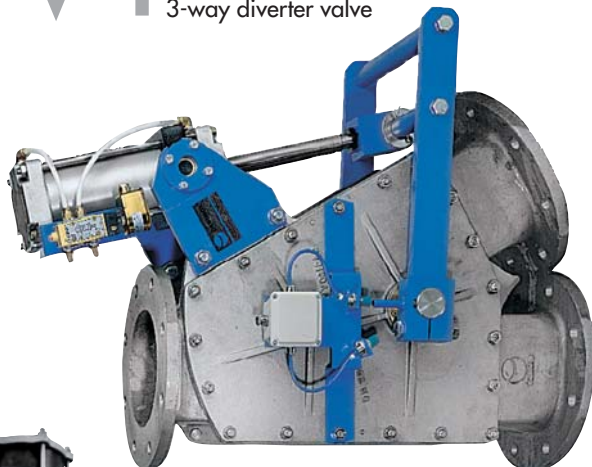


	CW	WS
APPLICATION	Solid loaded / hazardous fluids high pressure	Solid loaded / hazardous fluids high pressure
SIZES	DN 80 to DN 900 (3" to 36")	Up to DN 2400 (96")
WORKING PRESSURE	Up to 100 bar depending on size	Up to 40 bar depending on size

SPECIAL ENGINEERED VALVES

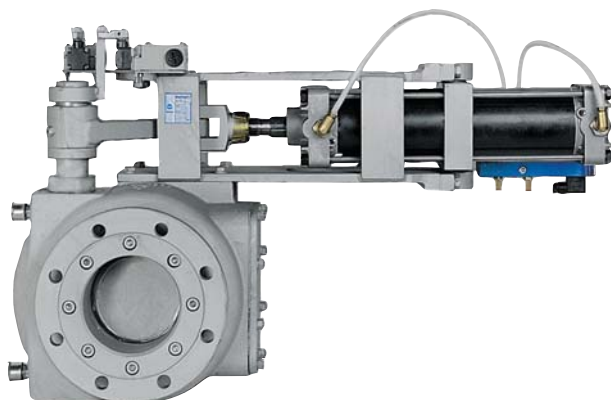
3VY

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

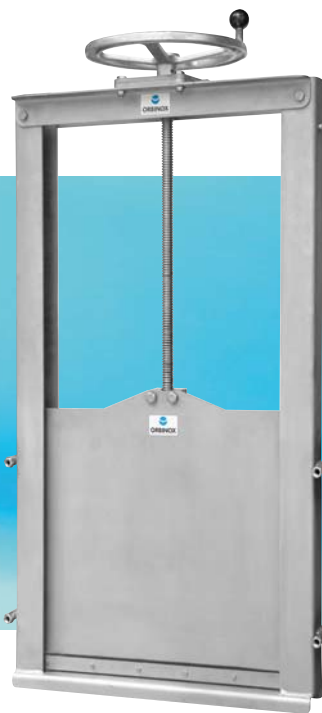
MU Wall Penstocks (4-side sealing), CC Channel Gates (3-side sealing), RB Weir Gates (4-side and 3-side sealing), RR Round and RC Square Flap Gates, AG Stop Gates, SL Stainless Steel Stop Logs and SA Aluminum Stop Logs. Mainly used in waste water treatment plants, irrigation, hydro power stations, ...

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.

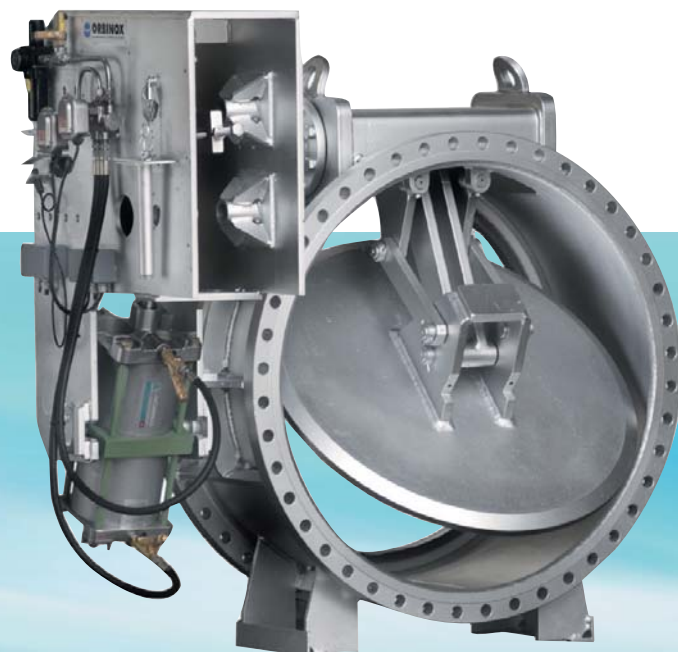
Light-construction fabricated dampers for low pressure and high temperature gas/air flow diverting, isolation or regulation. Wide variety of different designs (ML butterfly damper, PE louver damper, DI/DV diverter dampers, DG guillotine damper, ST stack damper, etc.), with multiple construction materials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



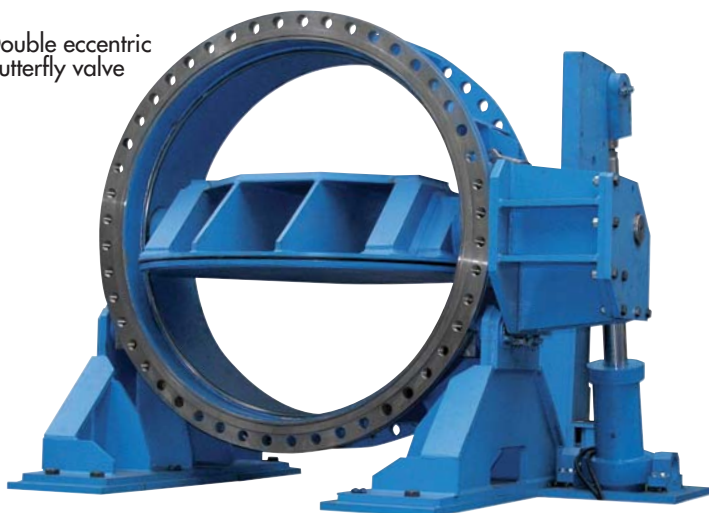
CH

Fixed cone valve



MB

Double eccentric butterfly valve



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