



Orbinox



Glenfield



Premier



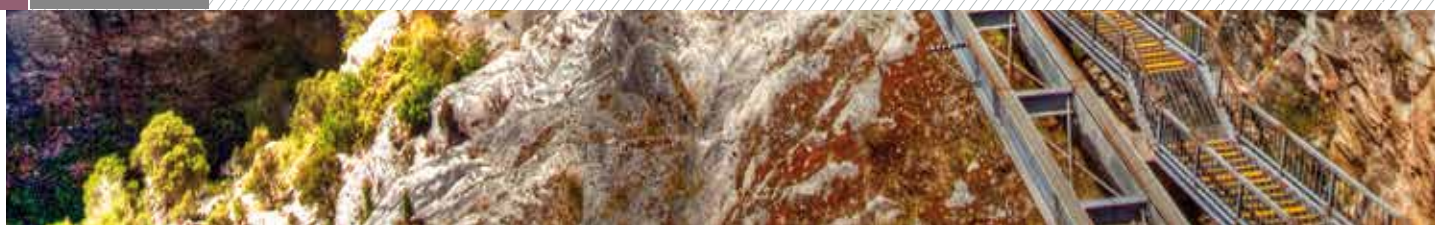
Gunric



ACMO



**DAMS, RESERVOIRS
& HYDROPOWER
SOLUTIONS**





DAMS, RESERVOIRS & HYDROPOWER



DAMS, RESERVOIRS & HYDROPOWER



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EXPECT GLOBAL LEADERSHIP & LOCAL COMMITMENT

WHATEVER YOU MAY NEED, WE CAN PROVIDE

Together, Orbinox Valves International, Glenfield Valves Ltd, Premier Valves, Gunric Valves and ACMO, leading global valve manufacturers and part of the AVK Group, form a combined wealth of experience, expertise and resource to globally develop the AVK Dams, Reservoirs and Hydro Power Sector.

Our common product portfolio comprises a large and comprehensive range of valves, including bonneted gate valves, radial and roller gates, discharge valves, large diameter knife gates valves, butterfly valves, check and recoil valves, gate valves, needle valves, spherical and boving valves, etc. for the Dams, Reservoirs & Hydro Power segments.



WHEREVER YOU ARE, SO ARE WE

Our geographical presence and product range may be global, but our focus is local. We stay close to our customers throughout the entire process. The proximity allows us to better understand our customers' needs and tailor our solutions to fit them.

Being a global player, we are able to provide highly engineered products and service solutions approved to international standards whilst always understanding and adapting to local specifications and project requirements.



EXPECT QUALITY & A LONG-TERM PARTNERSHIP

QUALITY IS ESSENTIAL! WHEN IT COMES TO VALVES, HYDRANTS, FITTINGS AND ACCESSORIES, OUR CUSTOMERS EXPECT LONG LASTING SOLUTIONS



WE BUILD ON AND INVEST IN LONG-TERM PARTNERSHIPS, BECAUSE OUR CUSTOMERS ARE MUCH MORE VALUABLE THAN A SINGLE TRANSACTION



VALVE TYPE

VALVE TYPE

Bottom Outlets
Intake Gate
Guard Valve
Discharge Valve
Intermediate Outlets
Intake Tower
Intake
Intermediate Outlet
Intake Gate
Guard Valve
Control / Discharge Valve
Spillways & Canals
Spillway
Gate
Canal
Gate
Hydro Power & Reverse Pumped Storage
Hydro Power Station
Intake Control
Turbine Protection
Turbine Bypass / Tailrace
Reverse Pumped Storage
Reverse Pumped Storage

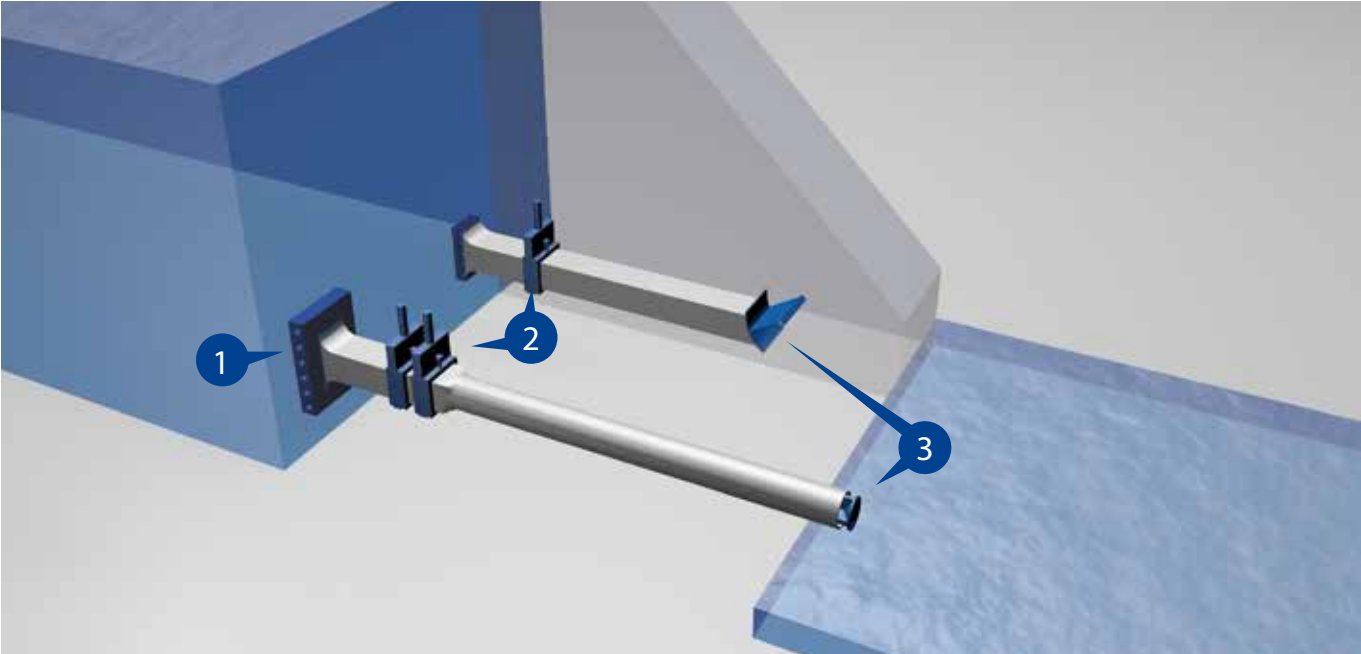
Bonneted Gate	Radial Gate	Roller Gate	Stop Gate	Penstock / Sluice Gate	Free Discharge	Submerged Discharge	Fabricated Butterfly	Butterfly	High Performance Butterfly	Knife Gate	Wedge Gate e	High Performance Gate	Tilting Disc / Butterfly Check	Recoil Check	Slanted Seat Check	Needle Control	Automatic Control	Air	Spherical
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VALVE TYPE



APPLICATIONS

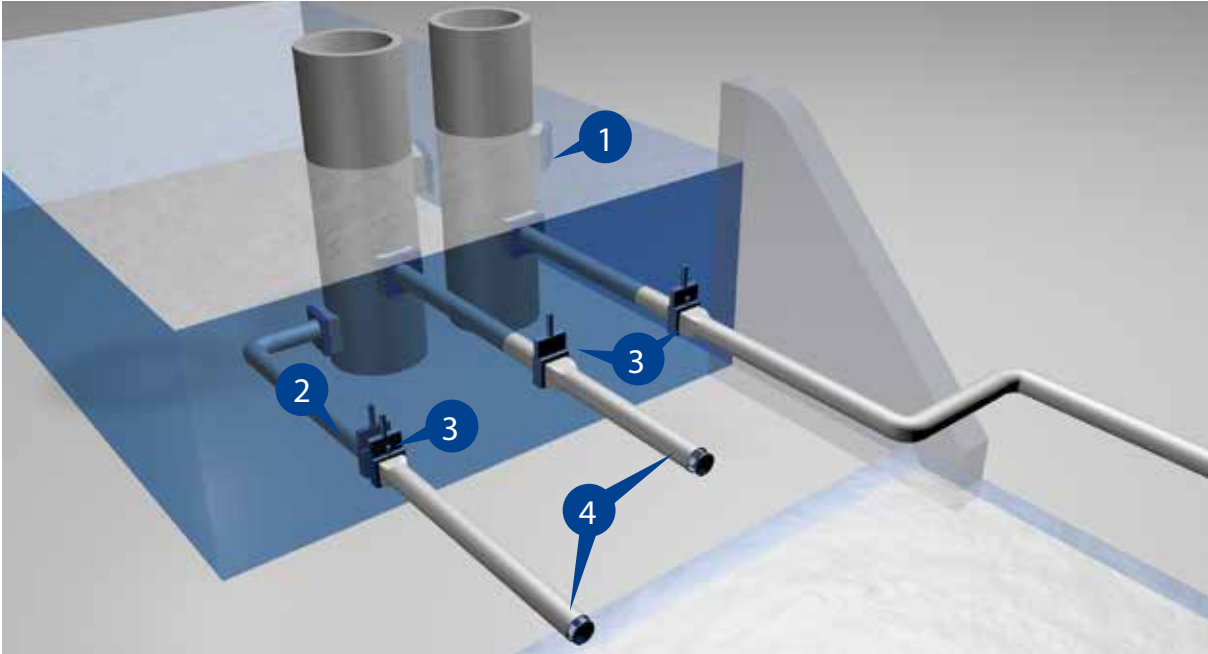


BOTTOM OUTLETS

	Bonneted Gate	Radial Gate	Roller Gate	Free Discharge	Submerged Discharge	High Performance Butterfly	Knife Gate	Wedge Gate	Needle Control	Automatic Control	Air
1 Intake Gate											
2 Guard Valve		    									
3 Discharge Valve											



APPLICATIONS

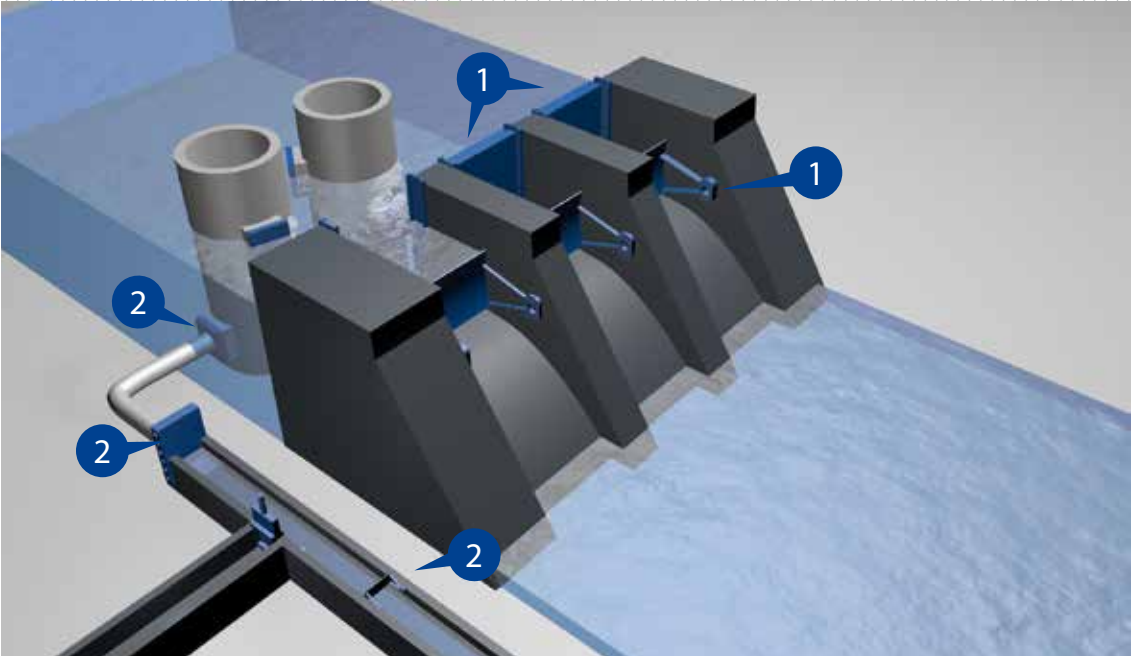


INTERMEDIATE OUTLETS

	Bonneted Gate	Radial Gate	Roller Gate	Free Discharge	Submerged Discharge	Butterfly	High Performance Butterfly	Knife Gate	Wedge Gate	High Performance Gate Valve	Needle Control	Automatic Control	Air Valve
Intake Tower													
1 Intake Gate													
Intermediate Outlet													
2 Intake Gate													
3 Guard Valve		     											
4 Control / Discharge Valve													



APPLICATIONS

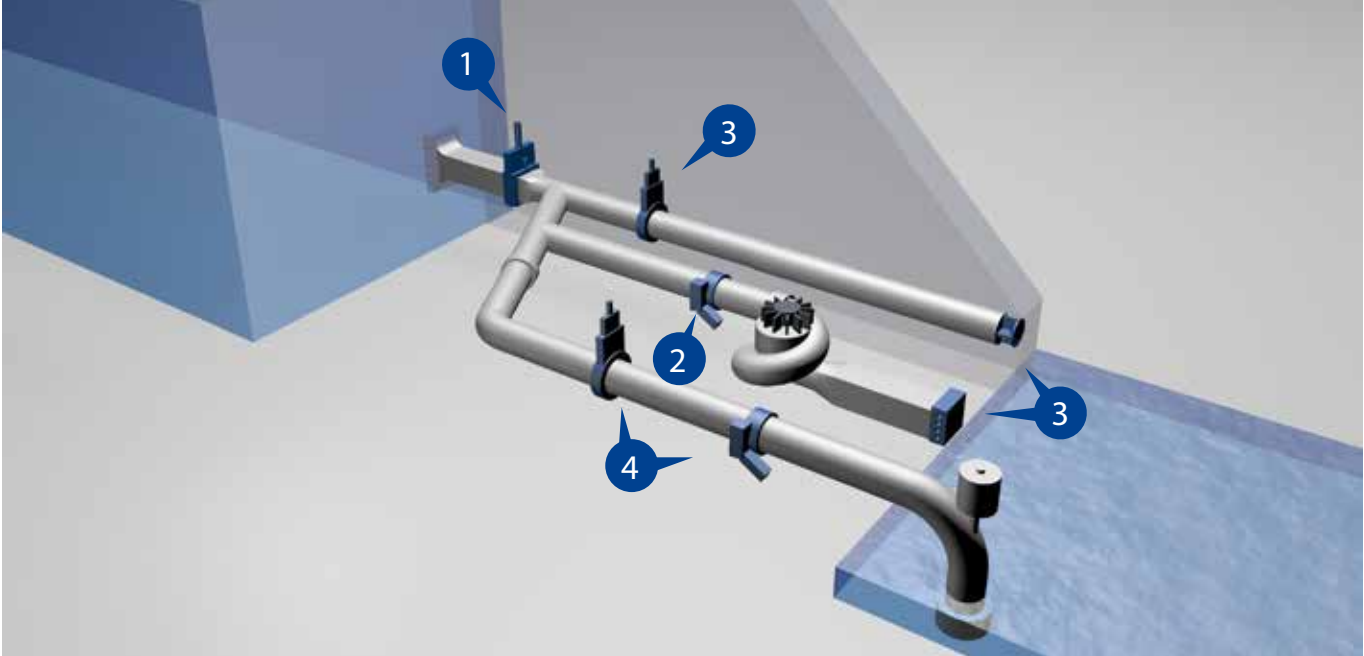


SPILLWAYS & CANALS

	Radial Gate	Roller Gate	Stop Gate	Penstock / Sluice Gate
Spillways & Canals				
1, 2 Gate				



APPLICATIONS



HYDROPOWER STATIONS AND REVERSE PUMPED STORAGE

	Bonneted Gate	Radial Gate	Roller Gate	Penstock / Sluice Gate	Free Discharge	Submerged Discharge	Fabricated Butterfly	Butterfly	High Performance Butterfly	Knife Gate	Wedge Gate	Tilting Disc / Butterfly Check	Recoil Check	Slanted Seat Check	Needle Control	Automatic Control	Air Valve	Spherical
Hydro Power Station																		
1 Intake Control																		
2 Turbine Protection																		
3 Turbine Bypass / Tailrace																		
Reverse Pumped Storage																		
4 Reverse Pumped Storage																		



PRODUCT RANGE



Bonneted Gate

Radial Gate

Roller Gate

Stop Gate

Penstock / Sluice Gate

Carbon or stainless steel fabricated body and gate, bronze seat and hydraulic or electric actuation.

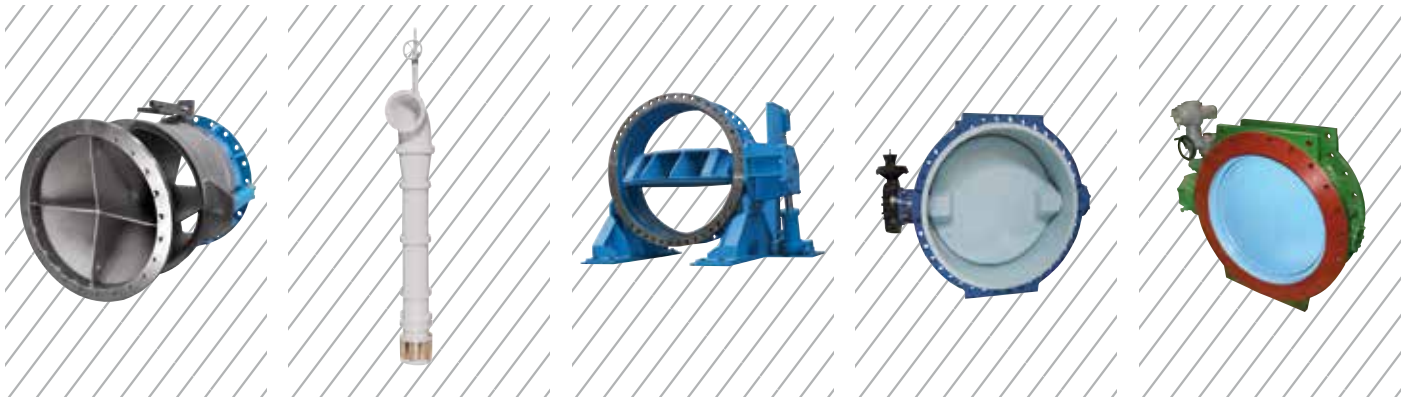
Carbon or stainless steel fabricated gate, three or four side sealing with elastomer seals and hydraulic or electric actuation.

Carbon steel fabricated gate, roller system for guiding purposes, elastomer seals and hydraulic or electric actuation.

Carbon steel fabricated gate, elastomer seals, normally operated with auxiliary lifting equipment / crane.

Three and four side sealing. Stainless steel full frame and gate, EPDM seals, HMWPE guides and various actuation solutions (manual, pneumatic, electric...etc).

Specifics:	Specifics:	Specifics:	Specifics:	Specifics:
Size: Up to 2500 x 3500 mm	Size: Up to 20000 x 7000 mm	Size: Up to 6000 x 8000 mm	Size: Up to 20000 x 7000 mm	Size: Up to 4000 x 4000 mm
Pressure: Up to 20 bar	Pressure: Gate height	Pressure: Up to 10 bar	Pressure: Gate height	Pressure: 4-side: 1 bar on / 0,6 bar off 3-side: Gate height



Free Discharge Valve

Submerged Discharge Valve

Fabricated Butterfly Valve

Butterfly Valve

High Performance Butterfly Valve

Cast body or carbon steel / stainless steel fabricated body, elastomer seat and hydraulic or electric actuator.

Terminal discharge valve providing submerged energy dissipation and flow control. Type – End of line single flanged.

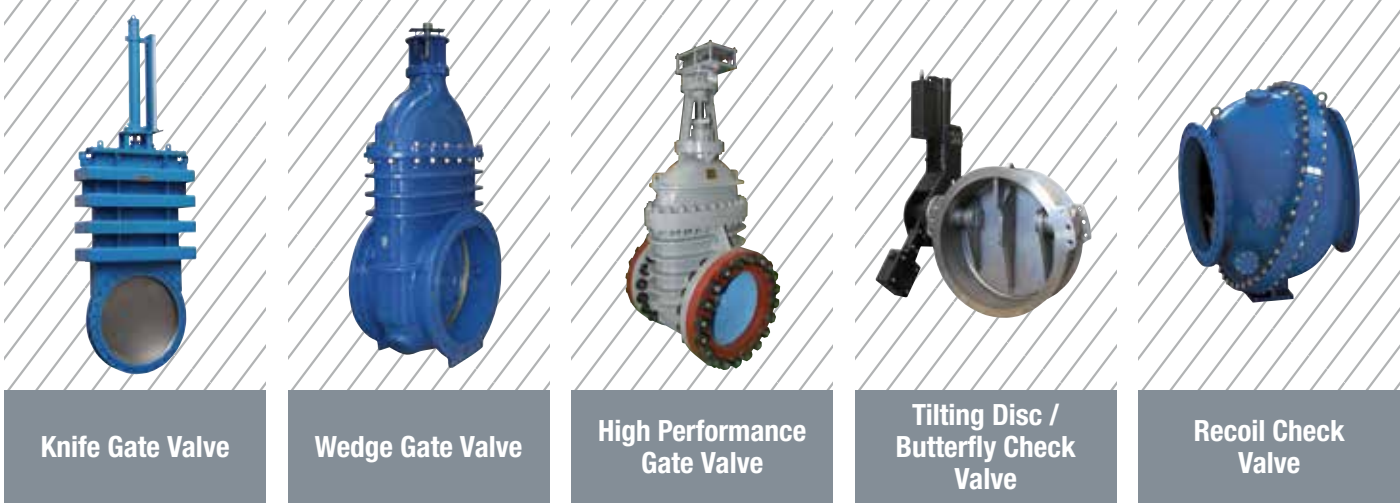
Carbon or stainless steel fabricated body and disc, elastomer seal and hydraulic or electric actuator.

Double eccentric butterfly valve with seal on disc design. Fully bi-directional with drop tight shut off and double flanged connection.

Boving type double eccentric resilient seal on disk and stainless steel body seat. Drop tight shut-off in preferred direction and double flanged connection.

Specifics:	Specifics:	Specifics:	Specifics:	Specifics:
Size: Up to DN3000	Size: DN200 – 1800	Size: Up to DN3500	Size: DN200 – 2800	Size: DN100 – 3000
Pressure: Up to 20 bar	Pressure: 10 & 16 bar	Pressure: Up to 10 bar (DN3500) Up to 16 bar (DN2000) Up to 25 bar (DN1000)	Pressure: PN10, 16 & 25 bar	Pressure: PN10, 16, 25 & 40 bar

PRODUCT RANGE



Knife Gate Valve

Wedge Gate Valve

High Performance Gate Valve

Tilting Disc / Butterfly Check Valve

Recoil Check Valve

Bonneted valve, carbon or stainless steel fabricated body bonnet and gate, elastomer or bronze seat and hydraulic or electric actuation.

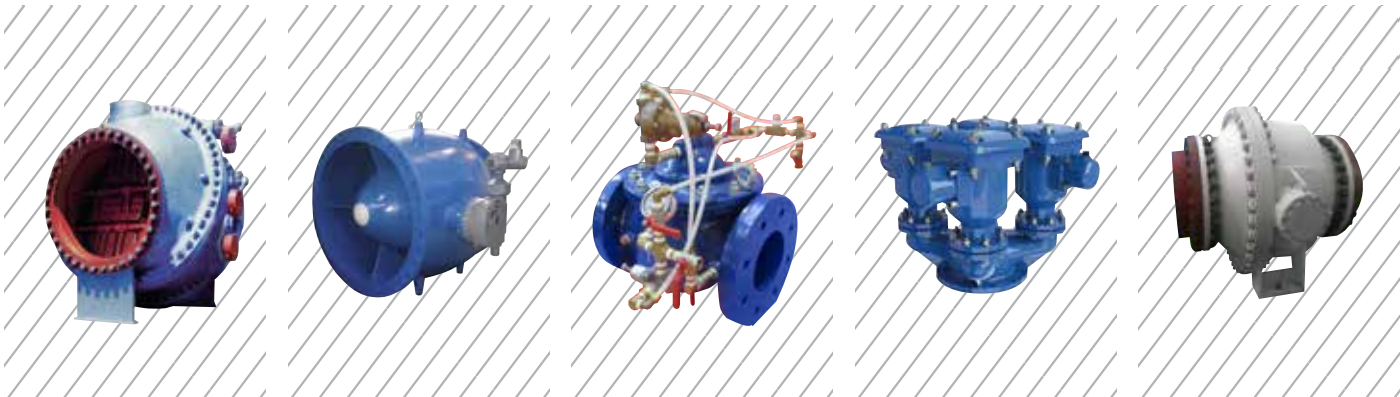
Metal seated gate valve for isolation. Double Flanged (PN 25 available in certain sizes).

Heavy duty ductile iron or steel cast valve, with weld deposit seats, extruded dovetail channel guides and shoes, and thrust bearings.

Carbon or stainless steel fabricated body and disc, metal or elastomer seat and optional hydraulic damper and counterweight.

Metal seated high performance, fast acting, non slam check valve.

Specifics:	Specifics:	Specifics:	Specifics:	Specifics:
Size: Up to DN3500	Size: DN50 – 2400	Size: DN80 – 1800	Size: Up to DN2000	Size: DN50 - 1400
Pressure: Up to 20 bar	Pressure: 10 & 16 bar	Pressure: PN10, 15, 25, 40 & 64 bar	Pressure: Up to 16 bar	Pressure: PN10, 16 & 25 bar



Slanted Seat Check Valve

Needle Control Valve

Automatic Control Valve

Air Valve

Spherical Valve

Three piece design with replaceable central section, with multiple doors for rapid closing times without slamming and high pressure flushing for cleaning.

Flow, level and pressure control valve used for in-line and terminal applications.

Ductile iron body/bonnet and stainless steel body seat globe/ diaphragm type valve. Large passageways for higher flow rates and greater cavitation resistance.

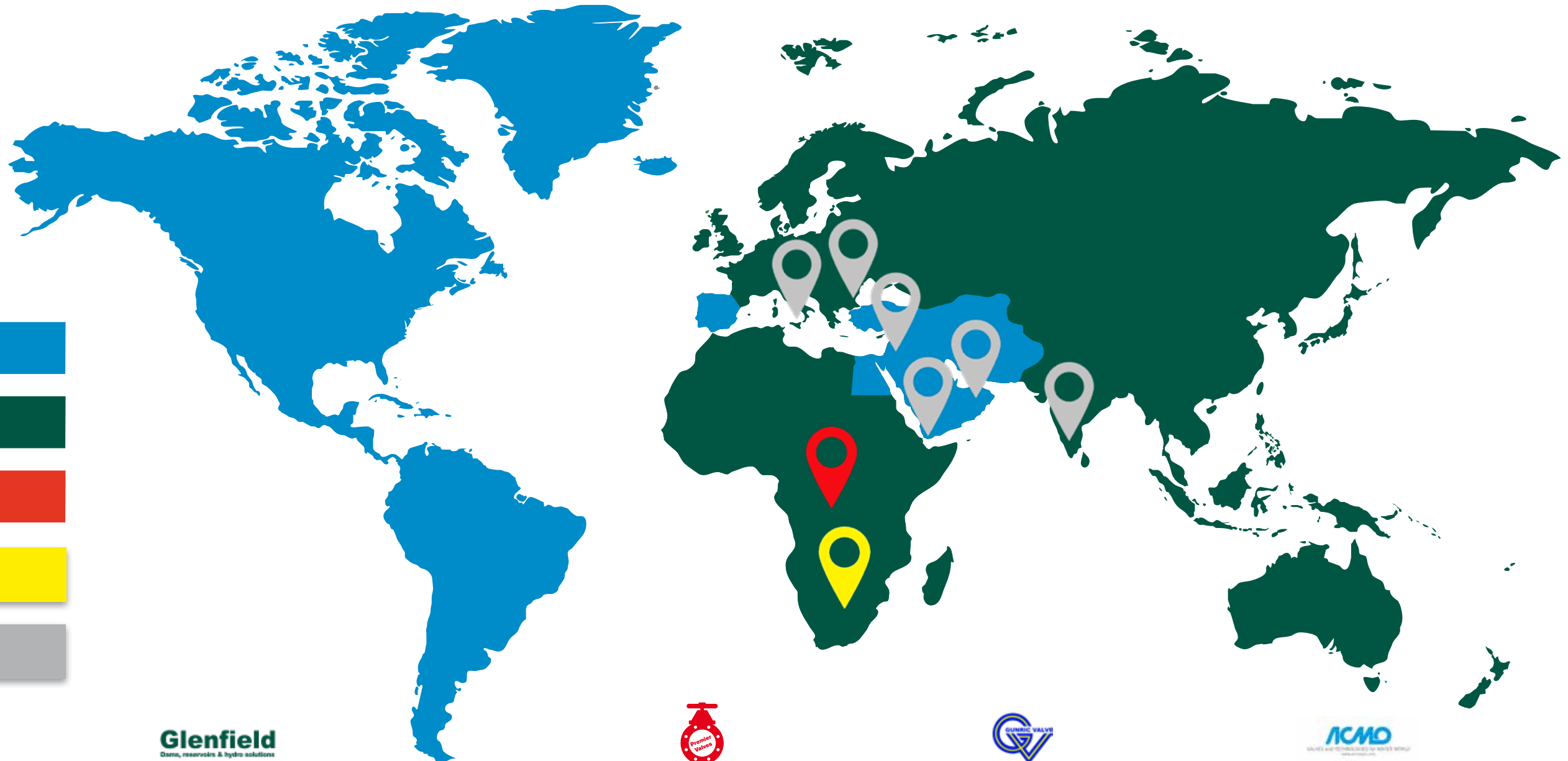
Triple function ventilation air valves with aerokinetic performance. Large discharge capacities and drop tight shut off for full pressure range.

Cast or fabricated, metallic/ soft designs, with movable service seal. Counterweight/ hydraulically operated with digital instrumentation systems.

Specifics:	Specifics:	Specifics:	Specifics:	Specifics:
Size: DN500 – 2000	Size: DN80 – 2000	Size: DN50 – 500	Size: DN25 – 250	Size: DN300 - 2000
Pressure: PN10, 16, 25 & 40 bar	Pressure: PN10, 16, 25, 40, 64 & 100 bar	Pressure: PN10, 16, 25 & 40 bar	Pressure: PN10, 16 & 25 bar	Pressure: PN10, 16, 25, 40 & 64 bar

SUPPLY SOLUTION PROVIDER

SUPPLY SOLUTION PROVIDER



ORBINOX is present in more than 70 countries with over 50 years of experience designing, manufacturing and marketing knife gate valves, penstocks, dampers and valves for hydraulic works.

Product quality and customer satisfaction are our goals. We have a highly qualified and experienced team providing the best solutions to suit the needs of our customers.

Our global presence enables us to be close to our customers in order to offer technical advice and respond to their requirements. We think globally, whilst applying local expertise.



Glenfield Valves, located in Scotland since 1852 have been designing and manufacturing specialist engineered valves for more than 150 years.

Our products are installed worldwide in dams, reservoir and hydropower applications.

Providing engineered valve solutions ranging from 50mm to 3000mm according to most of the worlds international design standards has made the Glenfield name synonymous with engineering excellence worldwide.

Our team of highly qualified engineers and project managers are available to assist in the design, procurement, installation and planned maintenance of a complete range of AVK Group products.



The **Premier Valves Group (PVG)** is one of Africa's largest and longest established valve suppliers, that specialises in the manufacture of large bore, high pressure, engineered valve products for both bulk water supply & power/ industrial applications.

PVG is based in its own 46,000 sqm factory facility outside Johannesburg, and also offers valve factory repair and refurbishment services, as well as, on site installation, commissioning and preventative maintenance services.



Gunric Valves, is a premium industrial valve supplier, providing customised butterfly and check valves for unique industrial applications.

Gunric is recognised internationally as a leading manufacturer of butterfly and tilting disk check valves.

Built for extreme pressure and temperature applications, products from Gunric are ideally suited for the water, oil, process, mining, power generation, petrochemical, gas, sugar and steel industries.



ACMO designs and manufactures hydraulic equipment for water distribution, water transmission, irrigation and water treatment. The ACMO Group support and develop technologies which combine to make efficient and safe systems for the management of water ecosystems.

ACMO operates across five office locations and over 10 international agencies. Thanks to its acquired know-how in water projects, ACMO provide information and assistance, with specific studies for the update of installed equipment.



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