



AVK



ORBINOX



CYL

MEMBERS OF THE AVR GROUP

KNIFE GATE VALVE SOLUTIONS

Expect... **AVR**



THE AVK GROUP

The AVK Group is a privately owned group currently comprising +100 companies worldwide. We develop and produce valves, hydrants and accessories for water supply and wastewater treatment, sewage treatment, mining and industrial applications.

Over its years of operation, AVK has acquired a number of internationally recognised product brands, that are now part of the AVK Group. These brands contribute to our product package and solution capabilities to the market.

When dealing with the AVK Group expect quality, reliability, functionality and a long lifetime in service.

OUR PRODUCT BRANDS



Orbinox have +50 years of experience within designing and manufacturing knife gate valves, penstocks, dampers, and valves for hydraulic work. They think globally, whilst applying their expertise locally in +70 countries. Offering technical expert advice and guidance is one of their important strengths.



Founded in 1990, CYL Knife Valves is today a well-known company with 25 years of experience designing, manufacturing and selling knife gate valves. Thanks to a global network of agents and distributors, CYL products are present in over 50 countries.

THE MARKETS WE SERVE

AVK knife gate valves are designed to meet international standards and are sold worldwide for various applications including:



Wastewater and Sewage Treatment



Mining



Pulp and Paper



Power Plants



Petrochemical



Chemical Production and Distribution

KNIFE GATE VALVES: DESIGNED FOR DEMANDING APPLICATIONS

ACTUATOR

- The reinforced actuator support, manufactured in a single piece, is easily interchangeable and includes open/closed lock-outs as a standard feature for maintenance operations. It is finished with an electrostatically applied EPOXY coating.
- The piston rods of pneumatically or hydraulically actuated valves include bellows (rod boots) as a standard feature to protect against outside contamination and dirt.

PACKING

- Standard braided PTFE impregnated synthetic fibre with EPDM o-ring for better shut off, with an easy access packing gland ensuring a tight seal.

STEM

- The standard stainless-steel stem offers a long corrosion resistant life.

ACTUATORS

- A complete range of actuator solutions, including manual, pneumatic and electric hydraulic actuators

BODY

- One piece integrally cast stainless steel body with reinforced ribs in larger diameters for extra body strength.
- Port design according to MSS-SP-81 and Tappi TIS 405-8.
- Internal design avoids any build-up of solids that could prevent valve from closing

SEAT (RESILIENT)

- The patented, resilient seat is an elastomer sleeve, available in different materials.
- The sleeve which supports, protects and also guides the gate is slotted in the top half to allow gate travel and guarantees full tightness with low friction.
- The sleeve is held by means of two seat rings which support it and also guide the gate

GATE

- AISI 316 stainless steel gate as standard.
- Gate polished and lapped for a greater seal between the gland packing and resilient seat.



KNIFE GATE VALVES

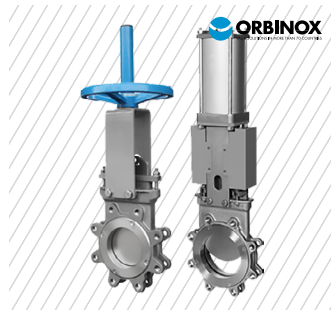


**Uni-directional
ET Model**

DN50-900, PN10 up to DN600
MSS-SP-81, 316 Stainless Steel
body & yoke, SS316L blade

Options:

- Resilient or metal seat
- Various materials, bonnets
and v-ports available
- All types of operations available

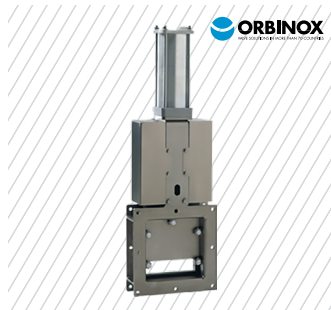


**Bi-directional
BT Model**

DN50-900, PN10 up to DN600
MSS-SP-81, 316 Stainless Steel
body & yoke, SS316L blade, Fully
encapsulated seat sleeve, no cavities

Options:

- Various bonnets and
v-ports available
- All types of operations available



**Square Port
BC Model**

From 150mm x 150mm to
600mm x 600mm

- PN 1 (higher pressures available)
- Carbon Steel body
- 304 Stainless Steel gate
- Optional body and gate materials

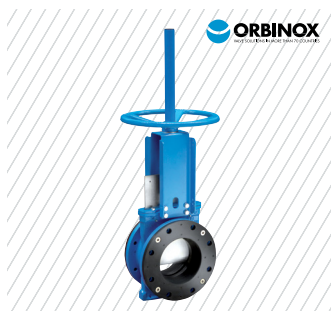


**Slurry Wafer
VG Model**

DN50-900, PN5-10, Ductile Iron body,
FBE coating, 316 Stainless Steel gate,
Natural rubber seat, Wafer or flanged,
Table D/E or ANSI 150#

Option:

- Electric or Pneumatic Actuation



**Slurry
Bi-directional
WG Model**

DN50-900, Up to PN10, Full flanged,
Two metal reinforced rubber sleeves

Option:

- Larger diameters with
high pressures available



**Slurry
Bi-directional
HG Model**

DN80-600, PN20, Heavy duty slurry,
Metal reinforced, Rubber sleeves,
Lock outs

Options:

- Various gate materials available
- Bottom splash guards
- Flush ports
- All types of operations available

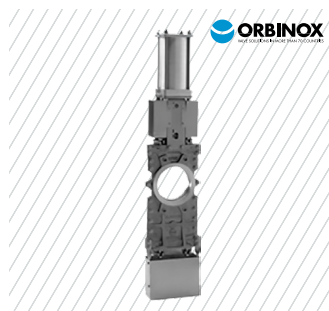


**Special
Engineered
Single Wedge**

DN80-2400, Up to PN64, Rugged cast
body and bonnet, High performance in
terms of seals and working pressures

Options:

- Handwheel, Pneumatic,
Electric or Hydraulic Actuators
- Flanges available



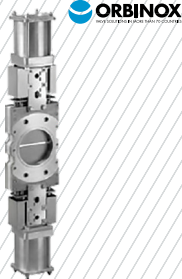
**O-Port
TL Model**

DN50-1000, PN2-10, Stainless
Steel body, 316 Stainless Steel
gate, Metal seat

Options:

- Flush ports
- Square port
- Special alloys
- Diamond port for control
- Bonneted design

KNIFE GATE VALVES

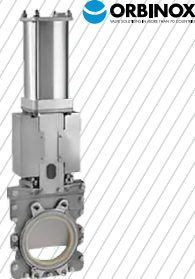


**Double Gate
DT Model**

DN100-600, Up to PN10,
Stainless Steel body, Cast or
fabricated two-part bolted body

Option:

- Larger diameters available



**Round and Square Port
CR Model**

DN100-600, Up to PN10,
Stainless Steel body, Heavy duty design

Option:

- Larger diameters available



**Hopper Shape
XC Model**

DN50-600, Up to PN10

Options:

- Larger diameters available
- Various flange connections available



**Bi-directional
XD-PRE
Series 702**

DN50-600, Ductile Iron Body, PN10 to
DN300, Reduced pressure in, larger
sizes from DN350-600, Protected
reinforced, seat with no cavities

Options:

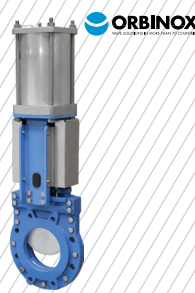
- Various gate materials available
- Over DN600
- EPDM or NBR seat
- All types of operations available



**Lineal Electric Actuated
Knife Gate Valves**

DN50 - DN400

- 24volt Lineal Electric Actuators
- 12v, 24v or 36v DC
- IP66/ IP69k ingress rating
- End stop signal
- 4-20mA control and feedback or on/off Profibus and Hart Override and Built in feedback
- compatible to PLC systems, or remote control unit.
- Easy to instal, plug and play, safe and low operating costs.

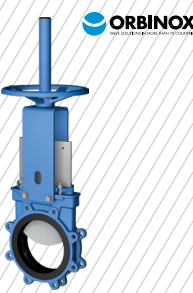


**HB
Bi-directional
High Pressure
Shear Knife Gate Valve**

Ductile Iron body, full bore. Optional
Tungsten carbide coating and wear rings.
Gate stainless steel.

Options:

- Size: DN80 to DN600
- Pressure: 20 Bar (DN600)
- Temperature: -20° C to +200°C



**EP
Bi-directional
Polyurethane-lined
Knife Gate Valve**

Ductile iron monoblock body with
polyurethane lining, stainless steel gate
and various actuation solutions (manual,
pneumatic, electric).

Options:

- Size: Up to DN600
- Pressure: 10 Bar (DN600)
- Temperature: -10° C to +100°C



**PA
Heavy Duty Slurry Pinch
Valve**

Ductile iron cast split body, full bore
rubber sleeve with single and double
pinch operating design and various
actuation solutions (manual and
pneumatic).

Options:

- Size: From DN25 to DN300
- Pressure: 10 Bar (DN150) / 8, 5 (DN200) / 7 Bar (DN250) / 6 Bar (DN300)
- Temperature: -10° C to +150°C



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