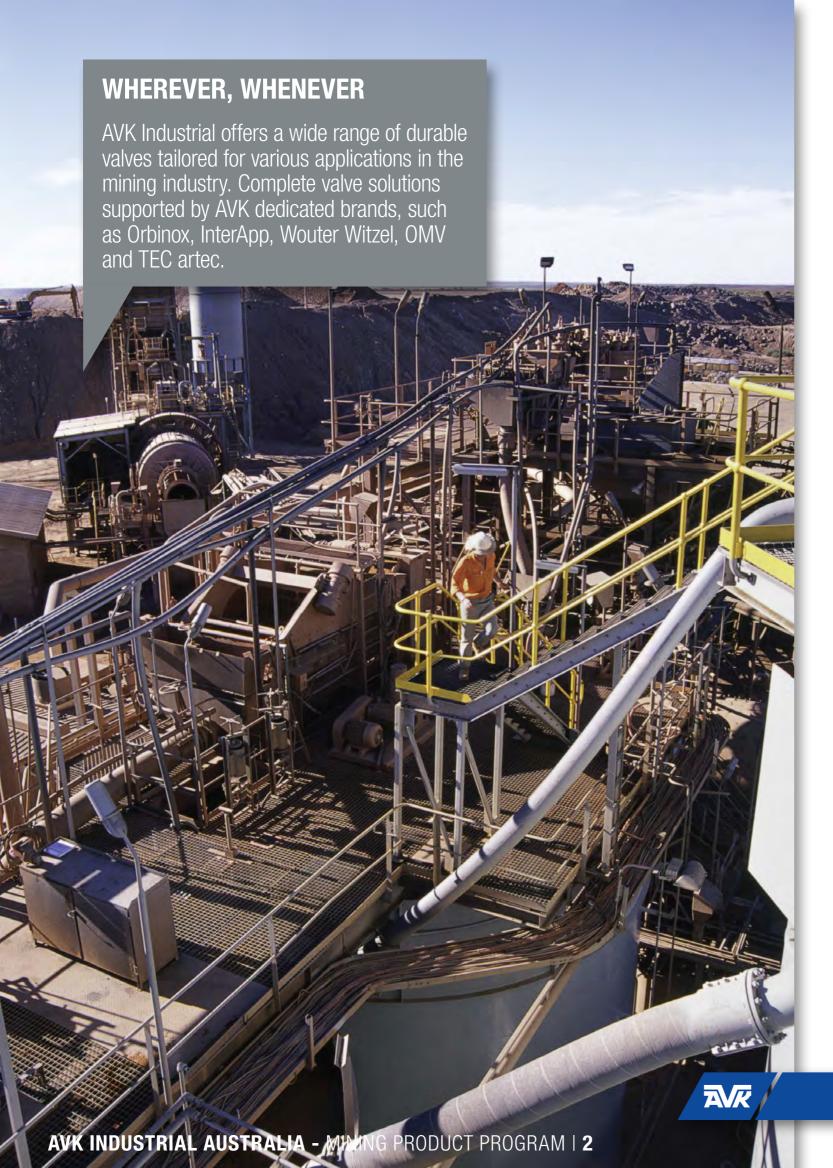




O AVK INDUSTRIAL
AUSTRALIA





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AVK INDUSTRIAL IS YOUR PARTNER OF CHOICE

AVK Industrial Australia is part of the AVK Australia Group and global AVK manufacturing Groups. We pride ourselves on supplying a full range of industrial valves, process controls, and actuation for a diverse range of industrial applications.

We focus on providing quality products to the highest standards with exceptional service and reliability. We supply our customers with complete packaged valve solutions to meet the most demanding applications. AVK Industrial can help you with technical valve selection and provide on-site support.

Our extensive product range covers a wide range of valve types, including, but not limited to, butterfly valves, knife gate valves, gate valves, check valves, air valves, ball valves, needle valves, penstocks, and accessories.





Proven solutions designed for mining

Our product brands, Orbinox, InterApp, Wouter Witzel, OMV and TEC artec, offer reliable and proven valve solutions for concentration, heap, and vat leaching, as well as for pressure acid leaching processes. This ensures maximum plant availability and maximises profitability in the most aggressive and demanding mineral processes.

Different types of valves are chosen based on their unique benefits and specific criteria such as flow control requirements, operating pressures, and the nature of the fluid being managed.

Endurance: Mining valves are specially crafted using robust materials engineered to endure the abrasive and corrosive conditions prevalent in the mining environment. These materials typically involve the use of advanced alloys and coatings meticulously designed to provide exceptional resistance against wear and tear, ensuring prolonged durability and reliability in highly demanding mining applications.

Pressure and temperature resistance:

Mining operations frequently encounter demanding high-pressure and high-temperature conditions.

The industrial valves used in mining are specifically engineered to manage these challenging circumstances effectively, guaranteeing dependable and secure operation.

Abrasion resistance: Industrial valves used in mining are equipped with hardened trim components or wear-resistant coatings to withstand erosive effects, preventing premature wear and maintaining optimal performance over time.

Safety features: Industrial valves utilised in the mining sector are equipped with various safety features to mitigate the risk of accidents and uncontrolled flow. These safety mechanisms include fail-safe systems, which are designed to activate in the event of a failure, emergency shut-off capabilities for immediate action in critical situations, and lockout features to prevent unauthorised operation and ensure safe maintenance procedures. These safety measures are essential for maintaining a secure and efficient working environment within mining operations.

Whether for new constructions or maintenance requirements, our readily available valves can be configured to your specific applications.





PROCESS / APPLICATION TABLE

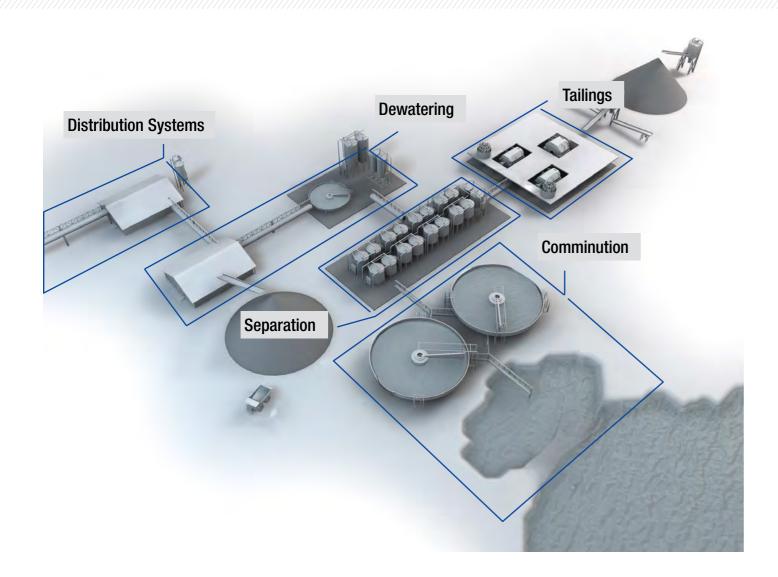


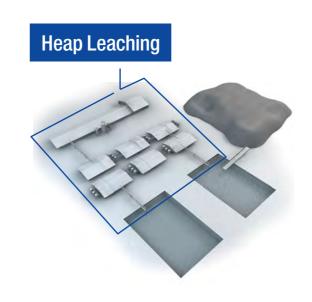
				CONCENTRATION													L		EAP CHII							Li	V/ EAC	AT HIN	T HING								PRESSURE ACID LEACHING														
			·	СОМ	OMMINUTION SEPARATION			D	EWAT	; 	DISTRIBUTION SYSTEMS			TAILINGS			LEACHING			COMMINUTION, THICKENING, LEACHING, TAILINGS			VG, G,	1	TAIL	INGS	ļ	COMMINUTION, THICKENING, AUTOCLAVE, CCD, NEUTRALISATION						TA	TAILINGS			SOLVENT Extraction				ELECTROWIN									
			SUMP/MILL DISCHARGE	HYCROCYCLONE	SCREENIG	PUMP ISOLATION SERVICES & DRAINS	TANK CONDITIONED	FLOTATION	GRAVITY SEPARATION	MAGNETIC SEPARATION	DESLIMING	THINGS	FILTER PRESSES	SERVICES & DRAINS		STORAGE TANKS LOW PRESSURE	HIGH PRESSURE	SERVICES & DRAINS	STORAGE TANKS	LOW PRESSURE	HIGH PRESSURE	SERVICES & DRAINS	DILUTE ACID	AERATION AIR	PLS	SERVICES & DRAINS	COMMINUTION	THICKENING	TANK CONDITIONERS	TANK LEACHING	NEUTRALISATION TAILINGS THINGS	NEUTRALISATION	FILTER PRESSE	SERVICE & DRAINS COMMINITION	SULUCION DE LA COMPANION DE LA	TANK CONDITIONER	AUTOCLAVES	FLASH TANKS	CCD	FLOCCULANTS	TAILINGS THICKENING	NEUTRALISATION	SERVICES & DRAINS	RAFFINATE	LOADED ORGANIC	STRIPPED ORGANIC	KENDSONE COMPENTE ATER A CID	SERVICES & DRAINS	ENRICHED ELECTROLYTE	DEPLETED ELECTROLYTE	SERVICES & DRAINS
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ORBINOX	WG	KNIFE GATE VALVE	•	•	•	• •	•	•	•	•	•	•	•	•		• •		•	•	•		•					•	•	•	•	•	•	•	• •	•	•		•		•	•	•	•								
ORBINOX	HG	KNIFE GATE VALVE	•	•	•	• •				•		•	•			•	•				•												•																		
ORBINOX	ET	KNIFE GATE VALVE					•	•						•		•		•		•		•	•		•	•				-	•													•	•	•	•	•	•	•	•
ORBINOX	ВТ	KNIFE GATE VALVE						•						•									•		•	•				-	•													•	•	•	•	•	•	•	•
ORBINOX	НВ	KNIFE GATE VALVE	•	•	•	• •	•	•	•	•	•	•	•	•		• •	•	•	•	•	•	•					•	•	•	•	• •	•	•	• •	•	•		•		•	•	•	•								
ORBINOX	EP	KNIFE GATE VALVE		•			1	•	•	•	•	•		•		• •		•	•	•		•	•		•	•		•	•	•	• •	•		•	•	•			•		•	•	•								
ORBINOX	PA	PINCH VALVE	•	•	•	• •						1	•			• •			•	•		•	•		•	•	•	•	•	•	•	•	•								•										
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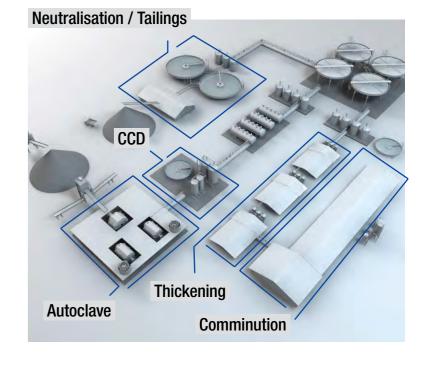
CONCENTRATION PROCESSES

HYDROMETALLURGICAL PROCESSES





Pressure Acid Leaching







KNIFE GATE VALVES

DESIGNED FOR DEMANDING APPLICATIONS



Wafer Style Slurry Knife Gate Valve

Ductile iron or stainless steel body, stainless steel gate, two rubber sleeves and various actuation solutions (manual, pneumatic, electric).

Specifics

Size: Up to DN1200

- Pressure:
- 16 Bar (≤ DN300) • 12 Bar (≤ DN 600)
- 10 Bar (≤ DN 900)

• 5 Bar (≤ DN 1200) Temperature:

-10° C to +150°C



Heavy Duty Slurry

Ductile iron or stainless steel body. stainless steel gate, two rubber sleeves and various actuation solutions (manual, pneumatic, electric).

Specifics

Size: Up to DN900 Pressure:

16 Bar (≤ DN600) 10 Bar (≤ DN900)

5 Bar (≤ DN1000) Temperature: -10° C to +150°C



Heavy Duty High Pressure Slurry Knife Gate Valve

Ductile iron or stainless steel body. stainless steel gate, two rubber sleeves and various actuation solutions (manual, pneumatic, electric).

Specifics

Size: Up to DN900 Pressure: 50 Bar (≤ DN600) (20 Bar (≤ DN900) Temperature:

-10° C to +150°C



Uni-directional MSS SP-81 Knife Gate Valve

Stainless steel monoblock body and gate, different seat materials (metal, EPDM) and various actuation solutions (manual, pneumatic, electric).

Specifics

Size: DN50 to DN900 Pressure: 10 Bar (DN600) 7 Bar (DN900)

-20° C to +250°C

Temperature:



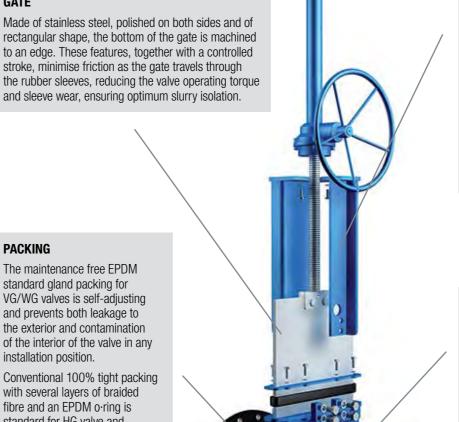
The maintenance free EPDM standard gland packing for VG/WG valves is self-adjusting and prevents both leakage to the exterior and contamination of the interior of the valve in any

installation position.

PACKING

GATE

Conventional 100% tight packing with several layers of braided fibre and an EPDM o-ring is standard for HG valve and available or VG/WG valves.



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 on 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.

BODY

Wafer style VG and wide face-to-face distance WG/HG available. The body is a single cast/fabricated part (mono-block) design and maintenance free. The open design of the lower part of the valve allows the discharge of the slurry that has entered the body when closing or opening the valve, assuring a full gate closure. Splash guards can be optionally provided to convey this slurry media to a drain line. Flushing ports can also be added to improve the evacuation of this slurry media from the body.



Bi-directional MSS SP-81 Knife Gate Valve

Stainless steel body and gate, different seat materials (metal, EPDM) and various actuation solutions (manual pneumatic, electric).

Specifics

Size: DN50 to DN900 Pressure: 10 Bar (DN600) 7 Bar (DN900) Temperature: -20° C to +250°C



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

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

Specifics

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



Bi-directional Knife Gate Valve

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

Specifics

Size: Up to DN600 Pressure: 10 Bar (DN600) Temperature:

-10° C to +100°C



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).

Specifics

Size: From DN25 to DN300 10 Bar (DN150) / 8, 5 (DN200) / 7 Bar (DN250) / 6 Bar (DN300) Temperature:

-10° C to +150°C



SEAT/SLEEVES

Robust 1 piece design, the chemical composition and the vulcanizing process used in their production assures maximum flexibility and the absence of cavities where solids can accumulate.



BUTTERFLY VALVES

WHERE SAFETY IS ESSSENTIAL



Butterfly Valve

Fluoroplastic lined for shut-off and control service for aggressive or corrosive fluid applications. Wafer, lugged and U flanged body.

Specifics

Size: DN32 to DN900

- Pressure:
- 16 Bar (≤ DN300) • 10 Bar (≤ DN 600)
- 6 Bar (≤ DN 900)

Temperature: -20°C to +200°C



Desponia Centric Butterfly Valve

Elastomer liner. Wafer, lugged and U flanged body. Ductile iron body and stainless steel available, bonded liner - option.

Specifics

Size: DN25 to DN1600

Pressure:

- 16 Bar (≤ DN1200)
- 10 Bar (≤ DN1600)
- 20 Bar (≤ DN600 on request) Temperature: -40°C to +200°C



Double Eccentric Butterfly Valve

High performance HP butterfly valve, lugged, wafer and double flanged.

Specifics

Size: DN50 to DN600 Pressure:

· CI150 -300

Temperature: -200°C to +260°C



Triple Offset Butterfly Valve

Triple eccentric, metal seated butterfly valve, flanged, lugged, wafer and double flanged, BW.

Specifics

Size: DN80 to DN 600

Pressure:

· CI150 -600

Temperature: -200°C to +815°C



Butterfly Valve

High performance HP butterfly valve, lugged and wafer.'

Specifics

Size: DN50 to DN600

Pressure:

· CI150 -300

Temperature: -10°C to +400°C



EV Centric **Butterfly Valve**

Vulcanised elastomer liner. Wafer, lugged abd U flanged body and double flanged body. Ductile iron body.

Specifics

Size: DN50 to DN2400 Pressure:

- 16 Bar (≤DN2400)
- 25 Bar (≤DN1200)

Temperature: -20°C to +200°C



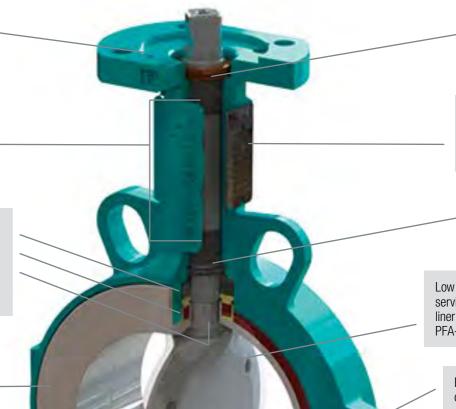
ISO top flange for modular actuator mounting.

High-performance self-lubracting and maintenance-free bushing.



- Safety shaft sealing
- High liner collar
- · Shaft PFA overmolded.

Increased service life thanks to the chambered liner which prevents cold flow at the flange sealing surface.



External shaft sealing to protect the valve neck hole.

Stainless steel valve label according to EN 19 for full traceability

> Optional TA-luft packing.

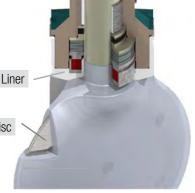
Low friction and extended service life thanks to PTFE liner in combination with PFA-overmolded disc.

> Minimum deformation of the liner due to the elastomer backliner embedded in the body.

> > Blow-out proof shaft and excellent Kv values based on the one piece disc/shaft.

Centering holes covering multiple flange ratings.

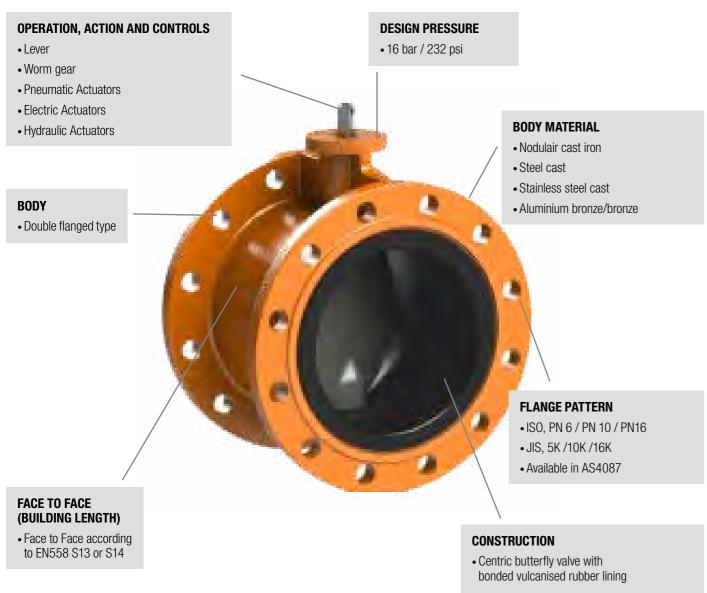






HIGHEST QUALITY FOR TOUGH ENVIRONMENTS

BALL VALVES







VariTec **Control and Shut**

3-piece forged, trunnion mounted metal to metal or soft seated. Ball/ Seat Hard facing: tungsten carbide, plasmanitrated (metal-tometal), nickel plated (soft seated) soft sealing inlay (PTFE, PEEK, others).

Specifics

Size: DN25 - DN800 Pressure: · CI150 - 2500

Temperature: -196°C - +600°C



Robust heavy duty design with multiple stem and ball sealing systems, forged solid ball, API6D. Wafer, flanged, threaded end connections.

Specifics

Size: DN8 to DN200 Pressure: · CL150 - 1500

Temperature: -29° C to +200°C



VariTec Ceramic

Control and Shut Off. Trunnion mounted, forged body made from A105, 316 titanium, 321 stainless steel, duplex, super duplex, full or reduced bore. Lever, gearbox, electric, pneumatic or hydraulic operation.

Specifics

Size: 25mm to 300mm

Pressure:

•< CL150 ·< PN25

Temperature: Max 610°C









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