

FLOWLINK VALVES & CONTROLS

MINING SOLUTIONS



Engineering Flow with Precision

Valve Solutions Tailored for Mining Excellence

ABOUT FLOWLINK VALVES & CONTROLS

FLOWLINK Valves & Controls: An Australian-owned company established in 2013, we stand as a trusted name in precision flow management. With offices in Brisbane and Perth, our reach spans across Australia, New Zealand, PNG, Fiji, New Caledonia, Tahiti, and the broader Pacific region—serving critical sectors such as mining, oil & gas, petrochemical, power, and water treatment.

We bring deep engineering expertise and an unwavering commitment to excellence, specializing in robust, high-performance industrial valves engineered for the world's harshest environments—particularly the demanding realities of modern mining. With over 150 years of combined experience in the resources sector, our highly specialized team delivers precision technical advice and dedicated support, ensuring optimal plant performance and safety at every stage.

At FLOWLINK, we don't just supply valves—we deliver confidence, continuity, and control.



ENDURING PERFORMANCE-GLOBAL PARTNERSHIPS

FLOWLINK delivers engineered strength, tailored expertise, and reliable supply for the world's most demanding environments. We partner with major resource companies, EPC's, and MRO's, providing safe, timely, and compliant solutions. Our regional presence and agile supply chain make us the preferred valve partner across critical industries.

GLOBALLY CERTIFIED-INDUSTRY COMPLIANT

ISO 9001:2015
Quality Management System
(QMS)

API & ASME
Standard Compliance

STANDARDS & COMPLIANCE



ISO 14001:2015
Occupational Health and
Safety Management System

NACE MR0175
Sour- Service



ISO 45001:2018
Environmental Management
System (EMS)

Firesafe & Fugitive Emission
Options Available



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BUILT FOR THE PROCESS

FLOWLINK'S PRECISION VALVE SOLUTIONS AT EVERY CRITICAL STAGE

1

Matching the Right Valve to Every Mining Stage

1

Ore Extraction & Primary Crushing

Large boulders are blasted and fed into crushers.



Knife Gate Valves

Heavy-Duty Manual Isolation Valves

Handles large particulates with full-bore flow and no clogging. Rugged shut-off, easy field maintenance in dusty conditions.

2

Grinding & Milling

Ore mixed with water → fine, abrasive slurry.



Slurry Knife Gate Valves Pinch Valves

Elastomer-lined internals resist erosion; full-bore design prevents build-up. Seat or sleeve only wear for fast replacement.

3

Slurry Transportation

Slurry pumped through pipelines to processing plants.



High-Pressure Slurry Valves PTFE-Lined Butterfly Valves

Thick-walled, turbulence-optimised bodies for long service life. Liners shield metal from abrasion and solids impact.

4

Leaching / Flotation / Separation

Chemical reagents separate valuable minerals.



PTFE-Lined Ball Valves Automated Control Valves

Corrosion-proof liners for acid and cyanide. Precise modulation for optimum reagent dosing and recovery.

5

Tailings & Waste Handling

Post-processing waste directed to tailings dams.



Large-Bore Knife Gate Valves Resilient-Seated Butterfly Valves

Wide-opening knives for high-volume solids. Elastomer seats resist erosion and abrasion in chunky, corrosive slurries.

6

Water Supply & Recovery

Clean & dirty water flows for treatment, reuse, or discharge.



General Service Butterfly Valves Check Valves

Low-torque, high-flow bodies for bulk water service. Backflow prevention protects pumps and filters during shutdowns.

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Products Built to Last

The FLOWLINK Mining Valve Lineup

Beyond flow isolation and throttling, mining operations rely on precise regulation, pressure relief, and backflow prevention. This next set of valves supports overall system stability and safety. Whether it's modulating pressure, managing return lines, or isolating auxiliary systems, these valves are essential for dependable plant performance.

Ball Valves

Offers tight shutoff and low-pressure drop in both clean and abrasive services. Full-port design ensures uninterrupted flow, making them ideal for slurry isolation, chemical dosing, and water systems in mining operations.

Specifications

Type: 2-Piece / 3-Piece, Full-Bore, Floating or Trunnion

Size Range: DN15–DN600 (½"–24")

Pressure Class: PN10–PN100, ANSI 150/300/600

Material Options: CF8M, WCB, Duplex SS, PTFE/PFA

Lined, Alloy 20

Standards: API 6D, ASME B16.34, ISO 5211, AS/NZS 4794



Knife Gate Valves

Designed for heavy-duty slurry isolation. The gate's sharp edge cuts through thick, abrasive slurries and dry bulk material. Ideal for tailings lines, underflow tanks, and mineral processing isolation.

Specifications

Type: Uni-directional / Bi-directional, Slurry & General Duty

Size Range: DN50–DN1200 (2"–48")

Pressure Class: PN10–PN25

Material Options: CF8M, WCB, 2205 Duplex, Rubber-Lined, Ni-Hard

Standards: MSS-SP-81, AS 4795, ISO 9001:2015

Butterfly Valves

A versatile solution for on/off and modulating service in large-diameter water, slurry, or air systems. Compact, cost-effective, and available with a wide range of disc/seat material combinations.

Specifications

Type: Wafer, Lugged, Double / Triple Offset

Size Range: DN50–DN2000 (2"–80")

Pressure Class: PN10–PN40, ANSI 150

Material Options: Ductile Iron, CF8M, Rubber, PTFE, Inconel Seated

Standards: API 609, EN593, AS 4795



Slurry / Severe Service Valves

Engineered to withstand erosive, high-pressure slurry flows. Internal wear protection, full-bore paths, and robust seats ensure uptime in mineral transport, flotation cells, and underflow applications.

Specifications

Type: Specialty Gate, Ball, or Plug Designs

Size Range: DN80–DN1000 (3"–40")

Pressure Class: PN10–PN100

Material Options: Hardened Alloys, Ni-Hard, Rubber / Ceramic Linings

Standards: ASME B16.34, NACE MR0175, ISO 9001

Gate Valves

Traditional isolation valves for clean fluid service and water management. Full-bore design provides minimal flow restriction, suitable for low solids and less abrasive lines.

Specifications

Type: OS&Y, Wedge, Resilient-Seated

Size Range: DN50–DN600 (2"–24")

Pressure Class: PN10–PN40, ANSI 150

Material Options: WCB, Ductile Iron, CF8M, EPDM

Standards: AS 2638, BS 5163, API 600



Supportive Valves for Auxiliary Control

Beyond the main flow control points, these valves are vital in maintaining system integrity, safety, and precise regulation in mining plants. From preventing reverse flow to releasing excess pressure, they're the quiet workhorses of your operation.

Check Valves

Preventing reverse flow in pipelines, check valves ensure process integrity and protect pumps and equipment during sudden shutdowns or flow reversal. Designed for minimal pressure loss and rugged operation.

Specifications

- Type:** Swing, Dual-plate, Tilting Disc
- Size Range:** DN50–DN1200 (2"-48")
- Pressure Class:** PN10 to PN40, ANSI 150/300
- Materials:** Ductile Iron, WCB, CF8M
- Standards:** API 6D, ASME B16.34, EN 12334



Globe Valves



Ideal for throttling flow with precision, globe valves provide excellent control in mining utilities and auxiliary services. Their linear motion disc mechanism allows stable, modulating flow — crucial for chemical dosing and water treatment circuits.

Specifications

- Type:** Bolted Bonnet, Y-pattern & T-pattern
- Size Range:** DN15–DN400 (½"-16")
- Pressure Class:** PN10 to PN100, ANSI 150 to 600
- Materials:** WCB, CF8M, Duplex, Alloy 20
- Standards:** ASME B16.34, EN 13709, API 623

Pressure Relief Valves (PRV's)



Critical for plant protection, PRVs and PSVs automatically release overpressure to maintain system safety. They're vital on pipelines, tanks, and process equipment exposed to variable loading in mining operations.

Specifications

- Type:** Spring-loaded / Pilot-operated
- Size Range:** DN15–DN200 (½"-8")
- Pressure Class:** Up to 250 bar
- Materials:** Stainless Steel, Bronze, C.S
- Standards:** ASME VIII, API 526, ISO 4126

Actuation & Control Solutions for Mining Environments

From isolating a slurry line to modulating reagent flow, automation ensures repeatability, safety, and precision. FLOWLINK's actuator range covers electric, pneumatic, and hydraulic actuation, paired with smart accessories for control, feedback, and diagnostics—tailored for rugged mining environments.

Actuation Systems

Electric Actuators

Robust, weatherproof design ideal for remote mining sites. Torque range from 50 Nm to 20,000 Nm. IP67/IP68 rated.

Pneumatic Actuators

Rack & pinion / scotch yoke options. Fast, fail-safe operation in dusty, explosive environments.

Hydraulic Actuators

Heavy-duty actuators for large valves and high-pressure service. Ideal for tailings and slurry pipelines.



Manual Overrides

Handwheel and declutchable gear overrides available for safety-critical valves in power-loss scenarios.



Control Panels & Enclosures

Stainless steel or GRP panels with full integration for actuators, sensors, and emergency controls. Customizable per site.

Control & Accessories

Positioners

Electro-pneumatic or smart digital models. Accurate modulating control with feedback signals (4-20mA, HART).

Limit Switches

Mechanical or proximity-type for open/close feedback. Available with ATEX/IECEx certification.

Solenoid Valves

Compact, fast-acting. Supports fail-safe logic and remote actuation.

Specifications

Torque Range: 50 Nm – 20,000 Nm

IP Ratings: IP67 / IP68 / Explosion-proof (ATEX)

Pressure Rating: Up to 250 bar (hydraulic)

Certifications: ISO 5211 mounting, IECEx/ATEX for hazardous area

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Specialty Flow Control Valves

These valves are designed for niche yet critical flow challenges in mining—handling abrasive slurries, corrosive chemicals, and precise dosing. Built for specialised conditions, they deliver high reliability where standard valves fall short.

Pinch Valves

Pinch valves are ideal for abrasive and corrosive slurry applications. Their full-bore, sleeve-based design eliminates internal metal wear, making them perfect for controlling aggressive fluids without clogging or erosion. They are often used in tailings, dosing systems, and dense slurry lines.

Specifications

Type: Manual or Automated, Full-Bore Elastomer Sleeve

Size Range: DN25–DN600 (1"–24")

Pressure Rating: Up to PN10 / ANSI 150

Body Material: Steel, Ductile Iron, Stainless Steel

Sleeve Options: NR, EPDM, Butyl, Neoprene, Hypalon

Standards: ISO 5208 / MSS SP-99

Applications: Thick slurries, cement, chemical dosing, waste handling



Diaphragm Valves

Diaphragm valves are perfect for corrosive and ultra-pure process streams. Their clean flow path, leak-proof operation, and chemical compatibility make them indispensable in leaching, reagent dosing, and fine chemical separation in mining plants.

Specifications

Type: Weir or Straight-Through Type (Manual or Pneumatic)

Size Range: DN15–DN300 (½"–12")

Pressure Rating: Up to PN16 / ANSI 150

Body Material: Cast Iron, Stainless Steel, Alloy 20

Liner/Diaphragm Options: PTFE, EPDM, NBR, FKM

Standards: EN 13397, ISO 9001 Compliant

Applications: Acid dosing, chemical separation, slurry systems with fine particulates



Flow Accessories: Connecting Critical Infrastructure

Flow accessories like pipes, fittings, and strainers form the backbone of mining systems—ensuring smooth, safe transport of slurries, water, and chemicals across all stages of operation.

Pipes

Industrial-grade pipes provide the primary channels for transporting slurry, water, air, and process chemicals across mining facilities. With a variety of sizes and materials, these pipes are designed to resist abrasion, corrosion, and pressure fluctuations.

Specifications

Type: Seamless, ERW, HDPE, Schedule 40/80

Size Range: DN25-DN1200 (1"-48")

Pressure Class: ANSI 150 to 600 / PN10 to PN40

Material Options: Carbon Steel, Stainless Steel (304/316), HDPE, Alloy Steel



Fittings



Pipe fittings are essential for routing and branching process lines efficiently within mining plants. They accommodate changes in direction, diameter, and elevation with secure, leak-proof connections.

Specifications

Type: Elbows, Tees, Reducers, Couplings, Flanges

Size Range: DN25-DN600 (1"-24")

Pressure Class: Up to ANSI 600 / PN10 to PN40

Material Options: CS, SS (304/316), Duplex, Alloy Steel

Strainers



Strainers safeguard pumps, valves, and instrumentation from damage caused by debris and suspended solids. Their inclusion is critical in systems handling raw water, tailings return, and chemically aggressive flows.

Specifications

Type: Y-Strainer, Basket Strainer, T-Type

Size Range: DN50-DN600 (2"-24")

Pressure Class: ANSI 150 to 300 / PN16 to PN25

Material Options: Cast Iron, WCB, CF8M, Bronze (on request)



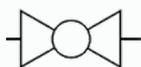
VALVE INVENTORY READY FOR DELIVERY

EXTENSIVE VALVE INVENTORY FOR IMMEDIATE DELIVERY

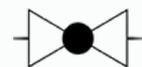


At Flowlink, our extensive stock includes a comprehensive range of valves, ensuring you find exactly what you need:

BALL VALVES:
 Sizes: 15mm to 200mm
 Pressure Classes: 150 to 1500



GLOBE VALVES:
 Sizes: 15mm to 200mm
 Pressure Classes: 150 to 900



GATE VALVES:
 Sizes: 15mm to 400mm
 Pressure Classes: 150 to 900

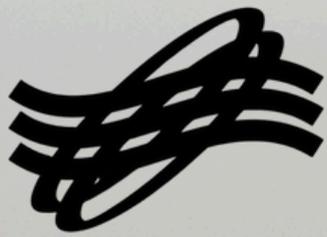


CHECK VALVES:
 Sizes: 15mm to 300mm
 Pressure Classes: 150 to 600



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CONTACT US

SALES, OPERATIONS & WAREHOUSING, BRISBANE, QLD

UNIT 4, 783 KINGSFORD SMITH DRIVE
EAGLE FARM
QUEENSLAND 4009
AUSTRALIA

FINANCE & ADMINISTRATION, PERTH, WA

UNIT 4, 63 SHEPPERTON ROAD
VICTORIA PARK
WESTERN AUSTRALIA 6100
AUSTRALIA

INTERNATIONAL OPERATIONS

NO.7-213/5 (SF) JP ROAD VENKATA RAJU NAGAR
CHINAMIRAM BHIMAVARAM-534204
W.G.DISTRICT, A.P.
INDIA.

 1300 086 499 (Within Australia)
+61 7 3160 3391 (From Overseas)

 sales@flowlinkepl.com.au

 www.flowlinkepl.com.au

 www.Linkedin.com/company/flowlink-enterprises-pty-ltd