

FLOWLINK VALVES & CONTROLS

PETROCHEMICAL INDUSTRY SOLUTIONS



Engineering Flow with Precision

Valve Solutions Tailored for Excellence

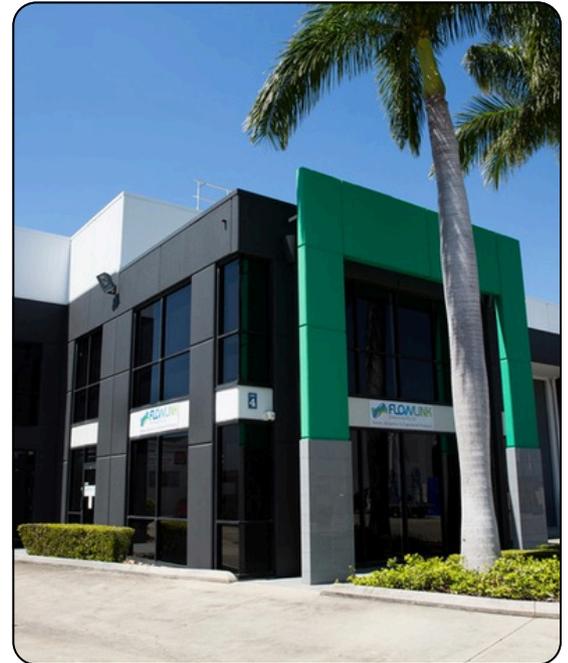
ABOUT FLOWLINK VALVES & CONTROLS

Flowlink Valves & Controls is an Australian owned and operated company incorporated in 2013 with offices in Brisbane and Perth. We are a flow solutions company providing integrated solutions to our customers predominantly in the Oil & Gas, Mining, Petro-Chemical, Power Generation and Water industries.

Our expertise extends across Australia, New Zealand, and the broader Pacific region, serving critical sectors including:

- Oil & Gas
- Petrochemical
- Power Generation
- Water Treatment etc.

With over **150 years** of combined experience, our specialised team delivers **confidence, continuity, and control** through precision engineering and dedicated support.



At **Flowlink**, we strive for operational excellence throughout all our activities. To ensure that we match and exceed your expectations along with industry best practices, we operate under Flowlink's Integrated Management System, which is accredited to ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 for Quality and Environmental Management and Occupational Health and Safety.

GLOBAL PARTNERSHIPS & INDUSTRY EXCELLENCE

Engineered Strength

Specialised in high-performance industrial valves for extreme pressures, temperatures, and corrosive media.

Strategic Partnerships

Collaborating with major resource companies, EPCs, and MRO's across the petrochemical sector.

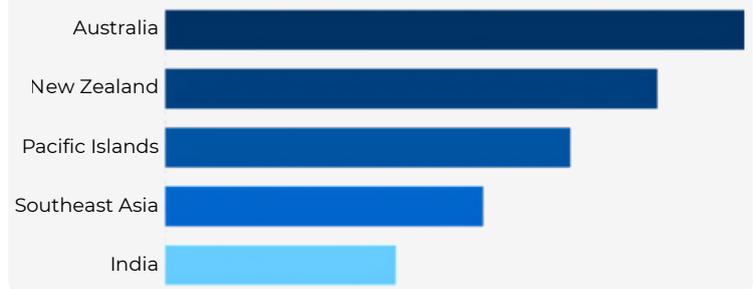
Agile Supply Chain

Regional presence ensures timely delivery and responsive service throughout Australia, New Zealand, and the Pacific.

Expert Technical Support

Over 150 years of combined experience providing precision technical advice and dedicated support.

Global Presence



STANDARDS & COMPLIANCE



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Built for the Process

Precision Valve Solutions at Every Critical Stage

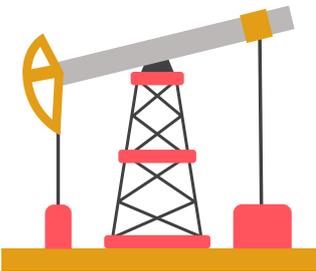
Flowlink's valve solutions are tailored for each critical stage of petrochemical processing, ensuring optimal performance, safety, and reliability.



UPSTREAM FEEDSTOCK PROCESSING

Crude oil distillation, natural gas cracking

High-Performance Butterfly Valves API 600 Gate Valves



INTERMEDIATE CHEMICAL SYNTHESIS

Reactors, separators, and purification columns

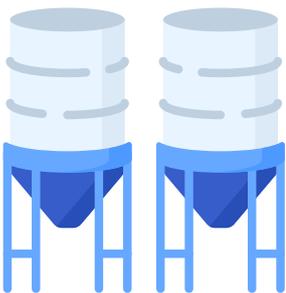
GGC Valves Diaphragm Valves PTFE-Lined Ball Valves



POLYMER & PLASTICS PRODUCTION

Polymerisation reactors and extrusion lines

Metal-Seated Ball Valves Severe Service Valves



DOWNSTREAM STORAGE & DISTRIBUTION

Finished product storage tanks and loading terminals

API 6D Ball Valves Check Valves



UTILITIES & SUPPORT SYSTEMS

Steam, cooling water, and flare systems

Butterfly Valves Pressure Relief Valves

ISOLATION & SHUTDOWN VALVES

HIGH-INTEGRITY SOLUTIONS FOR CRITICAL PETROCHEMICAL SERVICES

BALL VALVES

Ball valves ensure tight shut-off, durability, and corrosion resistance for high-pressure fluid control. Ideal for pure and chemical services, available in 304, 316, and 316L grades.

Specifications

Type: SS, Alloy Type, Floating & Trunnion Mounted

Size: DN15–DN900 (½"–36")

Class: ANSI 150 to 2500

Materials: WCB, CF8M, HAST, Duplex, Super Duplex, Monel

Configurations: 2-piece, 3-piece, multi-port



Feedstock Isolation

Chemical Dosing

Emergency Shutdown

High-Pressure Service

GATE VALVES



Gate valves provide reliable isolation with full-bore, unobstructed flow. Ideal for petrochemical pipelines and utilities, they ensure tight shut-off under high pressure, temperature, and corrosive conditions.

Specifications

Type: Solid & Flexible Wedge, Parallel Slide, Slab Gate

Size: DN50–DN1200 (2"–48")

Class: ANSI 150 to 2500

Materials: WCB, CF8M, Duplex, Super Duplex, Monel

End Connections: Flanged (RF, RTJ), Butt & Socket Weld

Process Isolation

On-Off Service

Full Bore Flow

System Integrity

FLOW REGULATION & SYSTEM INTEGRITY

FOR PRECISE THROTTLING AND BACKFLOW PREVENTION

GLOBE VALVES

Engineered for precise throttling and flow regulation. Their design is perfect for controlling the flow of chemicals, steam, and other fluids where accurate modulation is critical for process efficiency and safety.

Specifications

Type: Bolted Bonnet, Y-Pattern

Size: DN15–DN400 (½"–16")

Class: ANSI 150 to 2500

Materials: WCB, CF8M, Alloy 20, Duplex, Super Duplex

End Connections: Flanged, threaded, and welded



Flow Regulation

Chemical Control

Steam Systems

Precise Throttling

CHECK VALVES



Automatically prevent reverse flow, protecting critical equipment like pumps and compressors during shutdowns or pressure surges. Essential for maintaining process integrity and safety.

Specifications

Type: Swing, Piston, Axial, Dual Plate

Size: DN50–DN1200 (2"–48")

Class: ANSI 150 to 2500

Materials: WCB, CF8M, Duplex, Super Duplex

End Connections: Flanged, threaded, welded and wafer

Backflow Prevention

Pump Protection

Compressor Lines

System Integrity

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CORROSION-RESISTANT LINED VALVES

SUPERIOR CHEMICAL RESISTANCE FOR AGGRESSIVE MEDIA

PTFE LINED BUTTERFLY VALVES

PTFE (Polytetrafluoroethylene) lined butterfly valves are designed for highly corrosive and abrasive industrial environments. The robust PTFE lining offers exceptional chemical resistance, non-stick properties, and low friction, significantly extending valve life and ensuring reliable performance.

Specifications

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

Class: Up to ANSI Class 150, some for full vacuum

Temperature Range: -20°C to 200°C (-4°F to 392°F)

Materials: DI / CS / SS (Epoxy Coated)

Body Patterns: Wafer, Lug

Design: Bubble-tight, heavy-duty liner resists cracking



High-Purity Systems

Water Treatment

Viscous/Abrasive Flows

Hazardous Media

PTFE LINED PLUG VALVES



PTFE lined plug valves are engineered for demanding applications with highly corrosive, abrasive, or toxic fluids. Featuring a PTFE/PFA encapsulated plug rotating within a fully lined body, they ensure non-stick, low-friction operation without lubrication, providing exceptional chemical resistance.

Specifications

Size: DN15-DN250 (½"-10")

Class: Up to ASME 300, some handle full vacuum

Temperature Range: -20°C to 200°C (-4°F to 400°F)

Materials: Lined DI / CS / SS

Lining Material: PTFE or PFA

Design: Lined body, non-lube, low-emission seal

Lubrication-free

Oil & Gas Piping

Non - Abrasive Flows

Vacuum Services

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HIGH-PERFORMANCE & SAFETY VALVES

FOR CRITICAL ISOLATION AND OVERPRESSURE PROTECTION

BUTTERFLY VALVES

A versatile, lightweight, and cost-effective solution for on/off and modulating service. High-performance and triple-offset designs provide zero-leakage shut-off in critical applications, including hydrocarbon processing.

Specifications

Type: Double Offset, Triple Offset

Size: DN80–DN1500 (3"–60")

Class: ANSI 150 to 600

Materials: WCB, CF8M, Duplex, Super Duplex

End Connections: Wafer, Lugged, Flanged



Modulating Service

Tight Spaces

Large Diameter Lines

Hydrocarbon Processing

PRESSURE RELIEF VALVES



The ultimate safety device for plant protection. PRVs automatically release overpressure in vessels and pipelines, preventing catastrophic failures and ensuring compliance with safety regulations.

Specifications

Type: Spring-Loaded, Pilot-Operated

Size: DN25–DN300 (1"–12")

Class: Threaded, ANSI 150 to 2500

Materials: Carbon Steel, Stainless Steel

End Connections: Flanged, threaded, welded

Overpressure Protection

Vessel Safety

Pipeline Protection

Regulatory Compliance

CONTROL SYSTEMS

PRECISION AND RELIABILITY FOR PROCESS CONTROL

CONTROL VALVES

Flowlink Valves & Controls offers a comprehensive range of high-performance control valves, engineered for demanding petrochemical and process applications.

KEY ADVANTAGES

Engineered for Severe Service: Our control valves are designed to withstand extreme temperatures, high pressures, and corrosive media, built with high-grade materials like LCC, WCB, WC9, CF8M (SST), Monel, and Hastelloy.

Precise Flow Control: We provide valves that offer accurate throttling and on/off service for liquids, gases, and steam, with advanced trim options including noise abatement and anti-cavitation.

Interchangeability with Fisher™ Control Valves: A compelling advantage of many of our control valve offerings is their direct interchangeability with Fisher™ control valve components. This provides significant benefits by reducing inventory costs, simplifying maintenance, and offering a cost-effective alternative for existing Fisher™ installations without compromising performance.

OUR CONTROL VALVE PRODUCT RANGE OVERVIEW

Globe Style Control Valves: A wide range of globe valves (e.g., Series EZ, EW, EU, E/EA, H900/H1500/H2500, HPX/HPAX, DBQ/DBAQ, D/DA) designed for precise flow control and throttling in various pressure classes (ANSI 150 to 2500) and sizes (DN15-DN900).



Specialised Valves: Features three-way cage-guided valves (Series YD/YS), inline choke valves (Series BTE) for oil & gas, and high-performance quarter-turn butterfly valves (Series BFH-200/BFH-400) with PTFE seat material.

Rotary Control Valves: Includes the Series V500 (for erosive/coking fluids) and Series V100 (ball valve design for throttling and on-off service).



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ACTUATION & CONTROL SOLUTIONS

AUTOMATION FOR PRECISION, SAFETY, AND REPEATABILITY

From isolating hazardous materials to modulating critical reactions, automation ensures precision and safety. **FLOWLINK's** actuator range covers electric, pneumatic, and hydraulic options, paired with smart accessories for advanced control, feedback, and diagnostics.

ACTUATION SYSTEMS

Electric Actuators

Robust, weatherproof design (IP68) with explosion-proof options (ATEX/IECEX). Ideal for remote and critical ESD applications.

Pneumatic Actuators

Fast-acting rack & pinion or scotch yoke designs. Fail-safe operation for critical shutdown and control.

Hydraulic Actuators

High-torque output for large valves in high-pressure service.



CONTROL & ACCESSORIES



Smart Positioners

Electro-pneumatic or digital models for precise modulating control with HART or Fieldbus communication.

Limit Switches

Proximity or mechanical switches for open/close feedback, certified for hazardous areas.

Solenoid Valves

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

SPECIFICATIONS & CERTIFICATIONS



Torque Range: 50 Nm – 500,000 Nm



SIL Certification



IECEX/ATEX for Hazardous Areas



ISO 5211 Mounting Standard

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VALVE SELECTION GUIDE

Selecting the appropriate valve for a specific petrochemical application is critical for safety, efficiency, and long-term costs. Given the diverse and extreme conditions, a systematic approach is essential. This guide outlines key considerations for choosing the right valve type and material.



KEY FACTORS IN VALVE SELECTION

Fluid Characteristics

- **Corrosivity:** Drives material selection (PTFE lining, Hastelloy, Monel).
- **Temperature:** Affects body and sealing material choices.
- **Pressure:** Determines valve class and construction.
- **Viscosity/Solids Content:** Influences valve type (full port, non-clogging) and seat material.
- **Toxicity/Hazardous Nature:** Requires tight shut-off, low-emission designs, robust materials.

Application Function

- **On/Off Isolation:** (e.g., gate valves, ball valves).
- **Throttling/Regulation:** (e.g., globe valves, some butterfly valves).
- **Backflow Prevention:** (e.g., check valves).
- **Safety/Overpressure Protection:** (e.g., pressure relief valves).

Operating Conditions

- **Frequency of Operation:** Affects actuator selection and durability.
- **Actuation Method:** Manual, pneumatic, electric, or hydraulic.
- **Environmental Conditions:** External corrosion, extreme temperatures, hazardous atmospheres.

Industry Standards & Regulations

- Compliance with API, ASME, AWWA, ISO and other relevant standards.

Conclusion

Effective valve selection requires understanding process requirements and valve capabilities. By evaluating fluid characteristics, function, operating conditions, and standards, petrochemical facilities can select valves for optimal performance, safety, and reliability.



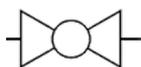
VALVE INVENTORY READY FOR DELIVERY

EXTENSIVE VALVE INVENTORY FOR IMMEDIATE DELIVERY

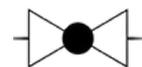


At Flowlink, our extensive stock includes a comprehensive range of valves, ensuring you find exactly what you need:

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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FLOWLINK

Valves & Controls

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