

FLOWLINK VALVES & CONTROLS

AVIATION & JET FUEL SOLUTIONS





ABOUT US

Flowlink Valves & Controls is an Australian owned and operated company incorporated in 2013 with offices in Brisbane, Perth, and India. We are a flow solutions company providing integrated solutions to our customers in the Oil & Gas, Mining, Petrochemical, Defence, Power Generation and Water industries across Australia, New Zealand, PNG, and the broader Pacific region.

At Flowlink, we don't just supply valves - we deliver confidence, continuity, and control



With over 150 years of combined expertise, our specialised team ensures safety, reliability, and efficiency in even the harshest environments. Backed by strong global supply networks and over \$3M in local stock, we guarantee fast delivery and innovative solutions.

We provide engineered strength, expert solutions, and reliable supply for the toughest environments. Partnering with top resource companies, EPC's, and MRO's, we deliver safe, timely, and fully compliant valve solutions. Our Valves meet the highest standards and defence contractor specifications, ensuring reliable, safe, and high-quality performance in critical fuelling operations



OUR COMMITMENT TO EXCELLENCE

Innovation & Reliability

Delivering engineered valve solutions designed for long-term performance, safety, and efficiency in critical applications

Global Standards Compliance

Supplying valves that adhere to stringent international quality, safety, and environmental standards

Comprehensive Product Range

From standard valves to fully customised solutions, meeting diverse requirements across oil & gas, mining, water, and energy sectors

STANDARDS & COMPLIANCE

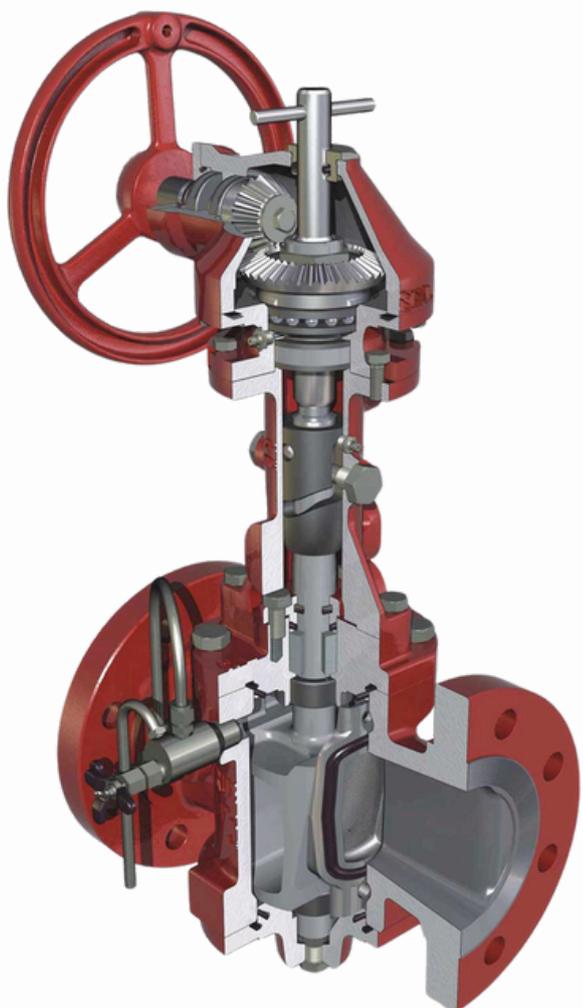


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TECHNICAL EXCELLENCE IN AVIATION VALVES

ENGINEERED SEALING SOLUTIONS FOR MAXIMUM SAFETY AND RELIABILITY IN AVIATION FUELLING SYSTEMS



SPECIAL SEAL DESIGNS FOR AVIATION APPLICATIONS

- Flowlink valves are equipped with advanced seal designs engineered specifically for the aviation and jet fuel industry
- Special consideration is given to elastomer selection, compatibility and long-term durability when exposed to different grades of fuels including specialised additives
- Each seal is developed to withstand extreme temperature variations, pressure cycles, and fuel additives without compromising performance

KEY FEATURES OF OUR SEAL TECHNOLOGY

Resistance to Jet Fuels—Optimised elastomers provide excellent performance in Jet A, Jet A-1, Avgas, and military-grade fuels

Cross-Contamination Protection—Special sealing configurations prevent the risk of graphite seal particles entering the fuel medium

Extended Service Life—Designed for prolonged reliability in demanding aviation fuelling environments

Low Maintenance—Reduced need for frequent replacement, lowering operational downtime and costs

Pressure Cycle Resilience—Designed to withstand frequent pressure variations and maintain seal integrity over thousands of operations

TRUSTED PARTNERS



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ISOLATION & SHUTDOWN VALVES

RELIABLE SHUT-OFF SOLUTIONS FOR CRITICAL FUEL APPLICATIONS

BALL VALVES

Ball valves are a cornerstone of modern fluid control systems, prized for their quick, reliable shut-off capability and robust performance. In the demanding environment of aviation and jet fuel systems, they are used extensively for fuel line shut-off, transfer, and ground refuelling operations where a tight seal and dependable operation are paramount. Their simple quarter-turn action allows for rapid opening and closing, either manually or through automation

Design: Floating or Trunnion-Mounted, Fire-Safe

Sizes: ½" (15 mm) to 4" (100 mm)

Pressure Class: ANSI 150 to 2500

Body Materials: Stainless Steel, Carbon Steel, Aluminium, Brass

Seals: PTFE, Viton (FPM) – jet fuel compatible

Actuation: Manual, Electric, Pneumatic

Standards: API 6D, API 607, ASME B16.34, ISO 17292, and compliant with AS/NZ DFI-DPM, UFGS, UFC, and MIL specifications



GATE VALVES



Gate valves are essential for applications requiring a straight-line, unobstructed flow and positive shut-off. In the aviation and jet fuel industry, they are deployed in fuel storage tank farms, transfer pipelines, and as on-aircraft shut-off valves for fuel transfer, cross-feed, and emergency isolation where a tight seal is critical. When fully open, the gate is lifted completely out of the flow path, resulting in minimal pressure drop

Types: Rising Stem (OS&Y), Non-Rising Stem, Solid Wedge

Sizes: 1/2" (15mm) to 24" (600mm)

Pressure Classes: ANSI 150 to 300

Body Materials: Stainless Steel, Cast Steel, Aluminium

Actuation: Manual Handwheel, Electric, Pneumatic, Hydraulic

Standards: Standards: API 600, API 6D, and designed to meet key defence and aviation standards including AS/NZ DFI-DPM, UFGS 33 52 43.14, UFC, and MIL specifications

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PRECISION VALVES FOR AVIATION SAFETY

SAFE ISOLATION & EFFICIENT FLOW FOR AVIATION FUELING

DOUBLE BLOCK & BLEED PLUG

Double Block and Bleed (DBB) plug valves ensure full isolation in critical systems like aviation fuelling. With two independent seats forming a dual barrier, and a bleed port between them, they allow safe cavity drainage and seal verification. This design prevents contamination and enables reliable seal integrity checks before maintenance—delivering true zero-leakage performance

Design Types: Reduced and Full-Bore Expanding Plug

Sizes: 2" (50mm) to 42" (1050mm)

Pressure Classes: ANSI Class 150 to 900

Body Materials: Carbon Steel, Stainless Steel, Alloy Steel

Seals: Elastomer seals with a secondary metal-to-metal seal

Actuation: Manual, Electric, Pneumatic

Standards: API 609, EN 593, ASME B16.5, and designed for compliance with AS/NZ DFI-DPM, UFGS, UFC, and MIL standards



BUTTERFLY VALVES



Butterfly valves provide reliable shut-off and flow control in aviation fuel systems. Their lightweight, compact design with a rotating disc ensures quick operation, minimal pressure drop, and precise sealing—ideal for refuelling, hydrant lines, and bulk fuel handling

Design Types: Wafer, Lug, Double Flanged, Concentric, Double Offset, Triple Offset

Sizes: 2" (50 mm) to 48" (1200 mm)

Pressure Classes: ANSI 150 to 600

Body Materials: Cast Iron, SG Iron, Carbon Steel, Stainless Steel

Disc & Seat: SS, Al, Bronze, or DI with metal/resilient seats

Actuation: Manual (lever/gear), Electric, Pneumatic, Hydraulic

Standards: API 609, EN 593, ASME B16.5, BS 5155, AWWA C504, API 6D, API 6FA, ASME B16.34, ISO 15848-1, and meets requirements for AS/NZ DFI-DPM, UFGS, UFC, and MIL applications

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HYDRANT & DRAIN VALVES FOR SAFE FUELLING

RELIABLE FLOW CONTROL AND SAFE SYSTEM DRAINAGE.

HYDRANT VALVES

Hydrant valves are key to airport fuelling systems, providing a safe, reliable link between the underground hydrant network and aircraft refuelling equipment. Designed for continuous use, they enable quick fuelling with minimal spillage, while safety interlocks and deadman controls ensure compliance and prevent contamination

Design Types: Deadman Hydrant, Inline Hydrant, Pit Valves

Sizes: 4" (100mm) to 8" (200mm)

Pressure Classes: ANSI 150 to 600

Body Materials: Aluminium Alloy, Stainless Steel, Ductile Iron

Seat: Viton AED, NBR, PTFE – aviation fuel compatible

Actuation: Manual Deadman, Electric or Pneumatic actuations

Standards: API 1584, EI 1584, ICAO & IATA fuelling standards and designed for compliance with AS/NZ DFI-DPM, UFGS, UFC, and MIL specifications



DRAIN VALVES / LOW POINT DRAIN VALVES



Drain valves, or low-point drain valves, remove accumulated condensate and debris from pipelines. Installed at the lowest points, they prevent fluid build-up and corrosion, ensuring smooth operation, system integrity, and longer equipment life

Design Types: Globe Type, Needle Type, Ball Type Drain Valves

Sizes: ½" (15mm) to 2" (50mm)

Pressure Classes: ANSI 150 to 2500

Body Materials: Carbon Steel, Stainless Steel, Alloy Steel

Seat: PTFE, Graphite, Metal-to-Metal – aviation fuel compatible

Actuation: Manual Handwheel / Lever, Optional Pneumatic or Electric Actuation

Standards: ASME B16.34, API 602, API 598 (Testing), NACE MR0175 (for sour service) and designed for compliance with AS/NZ DFI-DPM, UFGS, UFC, and MIL specifications



FLOW & PRESSURE CONTROL VALVES

ENGINEERED NEEDLE VALVES AND AUTOMATED CONTROL VALVES FOR ACCURATE, RELIABLE FUEL HANDLING

NEEDLE VALVES

Needle valves are engineered for fine control of fluid flow in aviation fuelling and sampling applications. Their slender, tapered needle allows for delicate regulation at low flow rates—ideal for metering, test points, and drain lines where accuracy and reliability are critical. Compact and robust, they minimise leakage risks while offering optimal performance in pressurised environments

Design Types: Integral Bonnet, Multi-Turn Needle, Bleed Port

Sizes: ¼" (6 mm) to 1" (25 mm)

Pressure Classes: Up to 15,000 PSI, F/F and M/F ends

Body Materials: Stainless Steel, Carbon Steel

Seat: Metal-to-Metal, PTFE

Actuation: Manual Handwheel, Lever

Standards: ASME B16.34, API 602, API 598, and compliant with aviation/defence specifications



CONTROL VALVES



These valves provide automated, precise control of flow and pressure in aviation fuelling systems. They ensure safe fuel handling, minimise pressure surges, and maintain stable flow during fuelling and defuelling, offering reliable, efficient, and durable performance

Design Types: Pressure Control Valves, Flow Control Valves, Back pressure Valves

Sizes: 1" (25 mm) to 12" (300 mm)

Pressure Classes: ANSI 150 to 600

Body Materials: Stainless Steel, Aluminium Alloy, Carbon Steel

Seat: Viton (FKM), NBR, PTFE – aviation fuel compatible

Actuation: Pneumatic, Electric, Hydraulic

Standards: API 609, ASME B16.34, EI & IATA fuelling standards and designed for compliance with AS/NZ DFI-DPM, UFGS, UFC, and MIL specifications

PRECISION VALVES FOR AVIATION FUEL SYSTEMS

PREVENT BACKFLOW AND PROTECT YOUR FUEL SYSTEM

GLOBE VALVES

Globe valves are specifically engineered for regulating, or "throttling," the flow of liquids and gases. Their internal design features a movable plug-type disc and a stationary seat, which allows for precise control over flow rates. In aviation fuel systems, they are often used as diaphragm-actuated control valves in ground applications like refuelling and hydrant systems to accurately manage pressure and flow

Design Types: T-Pattern, Y-Pattern, Angle-Pattern

Sizes: 1/2" (15mm) to 16" (400mm)

Pressure Classes: ANSI Class 150 to 2500

Body Materials: Carbon Steel, Stainless Steel, Alloy Steel

Disc & Seat: Hardened trim for erosion resistance

Actuation: Manual, Electric, Pneumatic

Standards: API 623, BS 1873, ASME B16.34, and compliant with AS/NZ DFI-DPM, UFGS, UFC, and MIL specifications for defence applications



CHECK VALVES



Check valves, also known as non-return valves, are a critical safety component in any fluid system. They are designed to automatically allow fluid to flow in only one direction, instantly closing to prevent any possibility of reverse flow. In aviation and jet fuel systems, they are essential for protecting pumps, preventing fuel contamination, and maintaining system integrity in both on-aircraft fuel lines and ground fuelling infrastructure

Types: Swing, Piston, Ball, Spring-loaded Poppet

Sizes: 1/4" (8mm) to 3" (80mm) and above

Pressure Classes: ANSI 150 to 1500

Body Materials: Aluminium, Stainless Steel & Carbon Steel

Standards: Fully qualified to military and defence specifications including AS/NZ DFI-DPM, UFGS, UFC, and MIL-V-7899

RELIABLE PROTECTION FOR AVIATION FUELLING

ENSURING SAFE, STABLE, AND EFFICIENT PRESSURE CONTROL

PRESSURE RELIEF VALVES

Pressure Relief Valves (PRVs) safeguard aviation fuel systems from overpressure by automatically releasing excess pressure. They protect pipelines, tanks, and refuelling equipment, ensuring safety, system integrity, and compliance with international standards

Design Types: Spring-Loaded, Pilot-Operated, Thermal Relief

Sizes: 1/2" (15mm) to 12" (300mm)

Pressure Classes: ANSI 150 to 2500, up to 420 barg (special designs)

Body Materials: Carbon Steel, Stainless Steel, Bronze, Exotic Alloys

Seals: Metal-to-Metal, Soft-Seated (Viton, PTFE, other elastomers)

Actuation: Automatic pressure release, manual test lever options

Standards: API 520, API 521, API 526, ASME Section VIII, and compliant with major defence and international standards including AS/NZ DFI-DPM, UFGS, UFC, and MIL



PRESSURE REGULATING VALVES



Pressure Regulating Valves maintain consistent downstream pressure by automatically adjusting to upstream fluctuations. They are vital for steam, gas, and liquid systems—protecting equipment, improving efficiency, and ensuring safety

Design Types: Direct-Acting, Pilot-Operated, Back pressure Combination regulators

Sizes: 1/2" (15mm) to 6" (150mm)

Pressure Classes: ANSI 150 to 900

Body Materials: Carbon Steel, SS, Bronze, Ductile Iron

Seat: PTFE, NBR, Metal-to-Metal

Actuation: Self-Actuated (Spring-Loaded or Pilot-Operated)

Standards: API 526, ASME B16.34, ISO 4126, CSA, ATEX compliant and designed for compliance with AS/NZ DFI-DPM, UFGS, UFC, and MIL specifications



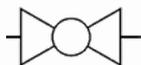
VALVE INVENTORY READY FOR DELIVERY

EXTENSIVE VALVE INVENTORY FOR IMMEDIATE DELIVERY

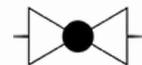


At Flowlink, our extensive stock includes a comprehensive range of valves, ensuring you find exactly what you need:

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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