

FLOWLINK VALVES & CONTROLS

TANK FARMS & STORAGE SOLUTIONS



FLOWLINK VALVES & CONTROLS: MEETING EVERY NEED IN TANK FARMS WITH PRECISION AND RELIABILITY

INTRODUCTION

Tank farms are critical infrastructures for storing and handling large volumes of liquids including fuels, chemicals, Tallow and crude oil. These operations demand precision, safety, and reliability. At Flowlink, we offer a complete range of valves, tank blanketing products, and protection solutions tailored for tank farms.

VALVE SPECIFICATIONS AND IMPORTANCE IN TANK FARMS

Valves are indispensable in tank farms, ensuring the safe handling and storage of liquids. The valves are designed for durability and precision, adhering to industry standards like API, ANSI, ASME, and ISO.

Key Specifications:

- Materials: Carbon steel, stainless steel (304/316) and specialty alloys for corrosion resistance.
- Size Range: 25mm (1") to 900mm (36").
- Pressure Classes: ANSI Class 150 to 2500.
- Temperature Range: Cryogenic to +400°C.
- End Connections: Flanged, threaded, butt-weld, and socket-weld.

Soft seals, such as Viton AED O-rings, provide chemical resistance, particularly for sensitive aviation fuels, ensuring reliability in critical defense and industrial applications. These valves enhance operational safety, fluid flow control, and corrosion resistance, making them vital for tank farms.



PROVEN EXPERIENCE IN TANK FARM SOLUTIONS

Flowlink has supplied Skin valves, Actuated valves, ball and Butterfly valves on projects to several major customers around Australia

STANDARDS & COMPLIANCE

Flowlink valves conform to globally recognised standards, ensuring consistent quality, safety, and performance in critical applications.



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ISO 9001
ISO 14001
ISO 45001



STORAGE TANK VALVE LAYOUT – FLOW AND CONTROL MAP

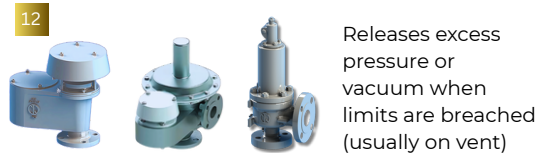
1

UPSTREAM → TANK → DOWN STREAM

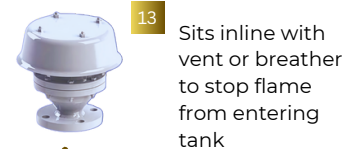
TANK BLANKETING VALVES



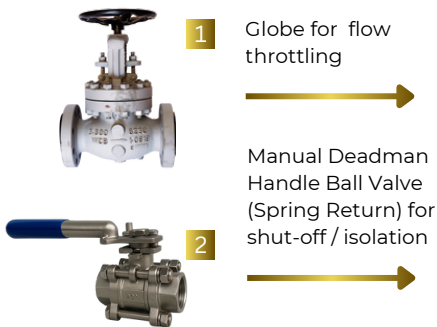
PRESSURE/VACUUM RELIEF VALVE



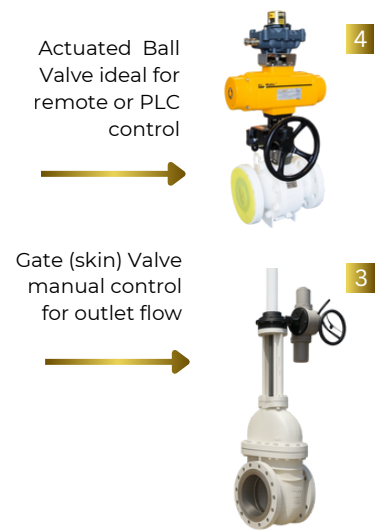
FLAME ARRESTORS



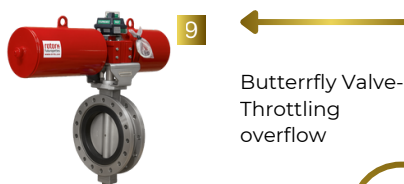
INLET LINE



OUTLET LINE



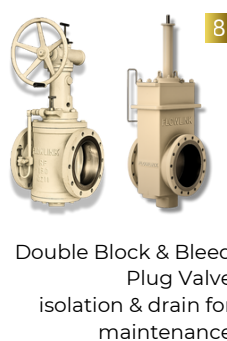
OVERFLOW TO DRAIN



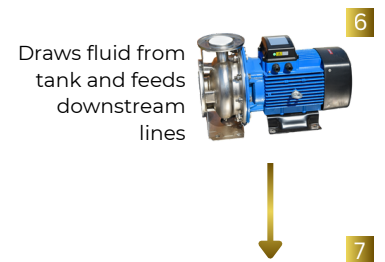
DRAIN



BYPASS / RECIRCULATION



PUMP



DOWNSTREAM

SKIN VALVES FOR TANK FARMS

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GATE VALVES: FOR TIGHT SHUT-OFF IN CRITICAL LINES

Gate valves are used in tank inlet/outlet pipelines, transfer lines, and emergency shut-off applications where tight shut-off is critical. They are often deployed in large-diameter pipelines to ensure effective isolation during maintenance or emergencies.

Types: Rising/Non-Rising Stem, Wedge, Parallel Gate Valves
Sizes: 15mm (1/2") to 1200mm (48")
Pressure Classes: ANSI 150 to 2500
Standards: API 6A/6D, API 600/602/603, EN 14723, EN 1984, DIN



DTR GATE VALVE: BYPASS / RECIRCULATION

Used for isolating and directing flow in bypass or recirculation loops around pumps or outlets. Its full-port design ensures unobstructed flow, even in viscous or solid-laden fluids.



Valve Type: DTR Gate Valve (Double Through Rising Stem)
Size Range: 15mm (1/2") to 400mm (16")
Pressure Classes: ANSI 150 to 2500
Seat Type: Metal-seated or Resilient (EPDM/NBR)
Actuation: Handwheel / Gearbox (Manual), Pneumatic or Electric Actuator (ISO 5211 compatible)

KNIFE GATE VALVE – TANK DRAINAGE & SLUDGE HANDLING

Knife Gate Valves are designed for on/off service in tank drain and overflow lines, particularly where slurries, sludge, or viscous fluids are present. Their sharp-edged gate cuts through thick flow media, making them ideal for bottom or side outlet tank applications.

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



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BUTTERFLY VALVES – RELIABLE FLOW CONTROL SOLUTIONS

Butterfly valves are one of the most widely used solutions for isolation and regulation in tank farm operations. With a compact design, low weight, and cost-effectiveness, they are ideal for handling a wide range of applications.

CONCENTRIC, DOUBLE & TRIPLE OFFSET DESIGNS

Types: Concentric, Double Offset, Triple Offset, Resilient Seated
Size Range: 50mm (2") to 1800mm (72")
Pressure Classes: ANSI 125 to 900, BSTD-J, DIN 10-40
Standards: API 609, BS 5155, DIN, EN 593, ISO 13095 / 10631



LUGGED TYPE BUTTERFLY VALVES

Designed for easy installation and dismantling, even when one side of the piping is disconnected. Suitable for dead-end service and frequent maintenance operations.



Types: Wafer Lugged, High-Performance
Size Range: 50mm (2") to 1200mm (48")
Pressure Classes: ANSI 125 to 600, PN10-PN25
Standards: API 609, BS 5155, EN 593, ISO 10631
Body Materials: Cast Iron, Ductile Iron, WCB, CF8M, Duplex, Lined options

DOUBLE FLANGED BUTTERFLY VALVES

Provide extra strength and durability for larger pipelines and higher pressure applications. Ensures leak-tight performance with a wide range of lining options.

Types: Double Flanged
Size Range: 80mm (3") to 2000mm (80")
Pressure Classes: ANSI 125 to 900, PN10-PN40
Standards: API 609, BS 5155, EN 593, ISO 10631
Seat Materials: EPDM, NBR, PTFE, Viton, High-Performance Elastomers



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PRECISION VALVES FOR ISOLATION, CONTROL & BACKFLOW PREVENTION

LONG PATTERN BUTTERFLY VALVES

Specially designed for applications requiring extended face-to-face dimensions. Offers greater stability and reliability in tank farm installations.

Types: Long Pattern, High-Performance Double/Triple Offset
Size Range: 80mm (3") to 1600mm (64")
Pressure Classes: ANSI 125 to 600, PN10–PN25
Standards: API 609, BS 5155, EN 593, ISO 10631
Seat Materials: EPDM, NBR, PTFE, Viton



GLOBE VALVES: PRECISION FLOW CONTROL

Globe valves are widely used in tank farms for precise flow control. They are commonly found in feed lines, discharge lines, and bypass lines. Their design, with a circular disc that moves up and down, allows for fine-tuning of flow rates.



Configurations: Straight Pattern, Angle Pattern, Y-Pattern
Size Range: 15mm (1/2") to 400mm (16")
Pressure Classes: ANSI 150 to 2500
Standards: API 600/602/603/623, BS 1873, DIN
Trim Options: Various choices for different fluids and pressures

CHECK VALVES: PREVENTING BACKFLOW IN KEY SYSTEMS

Check valves deployed in pump discharge lines, vapor recovery systems, and safety-critical pipelines and prevent backflow to protect pumps and equipment.

Configurations: Swing, Tilting Disc, Dual-Plate, Piston, Lift, Axial Flow
Size Range: 15mm (1/2") to 900mm (36")
Pressure Classes: ANSI 150 to 2500
Standards: API 594/6D, APS 600/602/603, BS, EN 1868, DIN



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SKIN VALVES FOR TANK FARMS

DEADMAN HANDLE BALL VALVE

Ensures temporary, manual flow control with automatic spring return to shut-off position — enhancing safety during loading/unloading operations.

Type: Deadman Handle Ball Valve (Spring Return Type)
 Body Material: SS316, WCB, Brass (optional PTFE-lined or exotic alloys)
 Ball Type: Full Port / Reduced Port
 Pressure Class: ANSI 150 / PN16 / 2000 PSI (threaded)
 End Connections: Threaded (BSP/NPT), Flanged, Socket Weld



BALL VALVES: FOR QUICK ISOLATION AND CONTROL

Ball valves used in tank farm manifold systems, vapour recovery units, and drain lines where fast and reliable on-off control is needed suitable for low-pressure drop and flow control in fuel distribution networks.



Types: Trunnion-Mounted, Floating, Cryogenic, High-Temperature
 Size Range: 15mm (½") to 900mm (36")
 Pressure Classes: ANSI 150 to 2500
 End Connections: Flanged, Socket Weld, Butt Weld, Threaded
 Certification: Fire-safe to API standards for critical tank farm safety

STRAINERS: PROTECTING EQUIPMENT FROM CONTAMINANTS

Strainers are critical in tank farms to protect pumps, valves, and metering systems by filtering debris from pump suction lines and fuel transfer pipelines. They ensure smooth operations and maintain product quality during liquid storage and transfer.

Design: Cast and Forged Construction
 Pressure Classes: ANSI 150 to 4500
 Media Compatibility: Steam, Gas, Air, Oil, Chemicals
 Perforated plate screens with custom filtration options available upon request,
 Corrosion-resistant body with large screen area for efficient >3:1 filtration,



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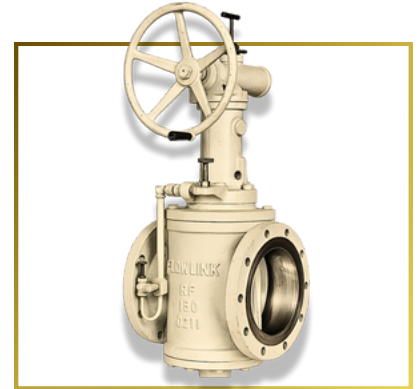
DOUBLE BLOCK & BLEED PLUG & GATE VALVES

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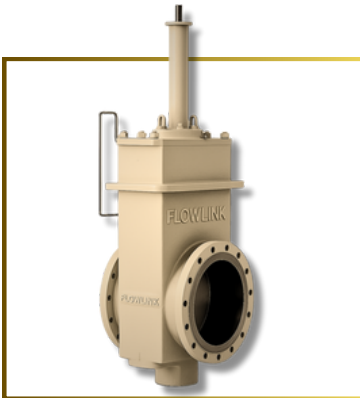
DB&B Plug and Gate Valves play a vital role in tank farms, ensuring reliable isolation during fuel handling. All our valves are fire safe with secondary elastomer sealing to prevent media contamination, using graphite packing or gaskets ideal for all fuel applications.

DOUBLE BLOCK BLEED PLUG VALVE

Double Block & Bleed Plug Valve designed for critical isolation in tank farms and fuel terminals, DB&B plug valves provide reliable sealing with dual barriers and a bleed port for safe maintenance. These bi-directional, fire-safe valves eliminate the need for external sealants and are ideal for custody transfer, loading systems, and high-integrity isolation. Available with automation and corrosion-resistant options.



SYMMETRICAL EXPANDING GATE VALVE



Engineered for full isolation in pipeline and terminal service, expanding gate valves provide a tight mechanical seal with upstream and downstream separation. Ideal for tank farms, these bi-directional valves ensure zero-leakage shutoff and are commonly used in custody transfer and critical isolation points. Fire-safe and API 6D compliant.

4-WAY DIVERTER VALVES

Designed for multi-product systems, 4-way diverter valves allow safe and efficient flow direction in loading racks and tank farm manifolds. These valves support smooth switching between product lines, with features like multi-turn operation, in-line maintenance, and optional automation. Built to ASME and API standards for high reliability.



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TANK BLANKETING & PROTECTION PRODUCTS

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Tank Blanketing is essential in refineries and chemical plants to ensure safety and preserve product quality. By maintaining a low, constant nitrogen pressure in the vapour space, it:

Prevents oxygen ingress and combustion risks

Minimises evaporation and emissions

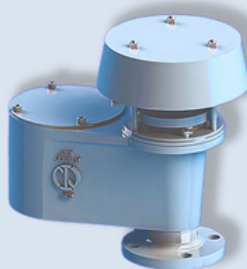
Protects against air and moisture contamination

Maintains chemical integrity by limiting exposure to oxygen and humidity



SELF ACTING & PILOT OPERATED

Size: 25NB (1"), other sizes on request
Inlet Pressure: 1.5 to 13.0 barg
Outlet Pressure: 25 to 3700 mmWCg
Rating: ANSI 150 (higher ratings available)
End Connections: Screwed & Flanged (ASME B16.5)
Application: Pressure regulation in solvent storage tanks and vessels



BREATHER VALVES

PRESSURE & VACUUM RELIEF VALVES

Size Range: 50NB (2") to 300NB (12")
Rating: ANSI 150
End Connections: Flanged
Material Options: Carbon Steel, Stainless Steel
Function: Relieves excess pressure and allows air intake during vacuum conditions
Application: Venting protection for storage tanks under pressure/vacuum fluctuations



BACK PRESSURE RELIEF VALVE

(VAPOUR RECOVERY REGULATOR)

Size Range: 15NB (1/2") to 50NB (2")
Rating: ANSI 150 & 300
End Connections: Flanged or Screwed (NPTF/BSPT)
Materials: Carbon Steel, Stainless Steel
Function: Prevents excess pressure during tank filling; outlet connectable to condenser for vapour recovery
Application: Tank venting and vapour management systems



FLAME ARRESTOR

Size Range: 15NB (1/2") to 300NB (12")
Rating: ANSI 150
End Connections: Flanged
Materials: Carbon Steel, Stainless Steel
Function: Prevents flame entry into tanks or vessels with flammable gases/vapours
Installation: Downstream end of pipelines for effective flame quenching
Application: Safety-critical storage and process systems



PRESSURE & VACUUM RELIEF + FLAME ARRESTOR

Sizes Available: 40NB (1 1/2") to 80NB (3")
Rating: ANSI 150
Pressure Settings:
 • Spring-loaded relief: 100–3000 mmWCg
 • Weight-loaded vacuum: 25–450 mmWCg
 • Weight-loaded creep: 25–2000 mmWCg
Function: Integrated protection system for safe tank venting during pressure and vacuum fluctuations
Application: Solvent and chemical storage tanks



LOW PRESSURE GAS BLANKETING REGULATOR SYSTEM

Size Range: 15NB (1/2") to 200NB (8")
Purpose: Supplies nitrogen to maintain stable low pressure in storage tanks
Models Available:
 D61 Series – Self-actuated, minimal proportional band
 B3 Series – Pilot-operated, high accuracy and capacity
Rating: ANSI 150 & 300
Materials: Carbon Steel, Stainless Steel

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ELECTRIC ACTUATION FOR TANK FARMS

ENHANCING SAFETY, RELIABILITY, AND CONTROL THROUGH AUTOMATION

Electric actuators play a crucial role in modern tank farm operations, delivering precise, safe and efficient valve automation. By enabling remote monitoring and control, they reduce manual intervention, improve safety and ensure reliable performance in critical storage and transfer systems. They are designed to withstand harsh environments with weatherproof and explosion-proof enclosures, while offering flexible ON/OFF, modulating and intelligent control options to suit diverse applications.

ADVANTAGES FOR TANK FARM OPERATORS

- Enhanced safety – remote operation minimises personnel exposure
- Greater efficiency – faster response and reduced downtime
- Improved accuracy – precise flow regulation and valve positioning
- Lower operating costs – reduced manual labour and maintenance
- Seamless integration – compatible with modern automation systems for smarter operations
- Increased reliability – consistent performance even in harsh and hazardous environments

APPLICATIONS IN TANK FARMS

- Torque Range: 10 Nm to 20,000 Nm
- Voltage Options: 24V DC, 110V/250V AC
- Control Types: On/Off, Modulating, Intelligent or Smart
- Enclosures: IP57/IP68, ATEX
- Operating Temp: -30°C to +70°C (special versions for extremes)
- Interface: Modbus, Profibus, HART, Ethernet, or wireless



KEY FEATURES

- Precise ON/OFF and modulating control
- Compact design with high torque capacity
- Integration with SCADA/DCS systems for remote monitoring
- ISO 5211 compliant mounting for universal compatibility
- Available with fail-safe (spring return or battery backup) options
- Weatherproof and explosion-proof enclosures (IP57/IP68, ATEX certified)



VALVE INVENTORY READY FOR DELIVERY

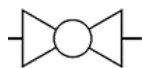
EXTENSIVE VALVE INVENTORY FOR IMMEDIATE DELIVERY



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

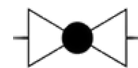
BALL VALVES:

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