

An aerial photograph of a wastewater treatment plant. The image shows several large circular clarifiers with central mechanical structures, and several long rectangular aeration tanks. The facility is surrounded by green grass and trees in the background. The lighting suggests it's either early morning or late afternoon, with long shadows cast across the tanks.

FLOWLINK VALVES & CONTROLS

# WATER AND WASTEWATER TREATMENT VALVE SOLUTIONS

# EMPOWERING WATER SYSTEMS WORLDWIDE WITH RELIABLE VALVE 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

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

Water treatment facilities require reliable, corrosion-resistant valves to ensure precise control, isolation, and regulation of flow in demanding conditions

Flowlink Valves & Controls offers a comprehensive range of valves engineered for water and wastewater applications — from raw water intake to purification, distribution, and sludge management

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



## OUR COMMITMENT TO EXCELLENCE



**INNOVATION & RELIABILITY**



**GLOBAL STANDARDS COMPLIANCE**



**COMPREHENSIVE PRODUCT RANGE**



# VALVE SELECTION GUIDE FOR WATER TREATMENT SYSTEMS

NEED	RECOMMENDED VALVE TYPES	APPLICATION & KEY POINTS
<b>ISOLATION</b>	Gate, Butterfly, Ball, Plug	System shutdown for maintenance, emergency isolation; select for tight sealing, low pressure drop, compatible with line size/materials
<b>CONTROL</b>	Control, Globe, Diaphragm	Precise regulation of flow or pressure; choose automated variants for remote or dynamic adjustment; essential for process plants and dosing
<b>BACKFLOW PREVENTION</b>	Check, Backflow Preventer	Prevents reverse flow and contamination; install at pump outlets, process inlets; meet drinking water standards where required
<b>AIR MANAGEMENT</b>	Air Release, Vacuum, Combination Air	Removes trapped air, prevents vacuum damage during filling/emptying; special types for surge management in long pipelines
<b>FLOW REGULATION</b>	Flow Regulator, Pressure/Flow Control	Maintains set flow rate regardless of changing pressure; recommended for network balancing, zone control, energy-saving operations

## GLOBALLY CERTIFIED-INDUSTRY COMPLIANT

ISO 9001:2015  
Quality Management System (QMS)

API & ASME  
Standard 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

### STANDARDS & COMPLIANCE



## TRUSTED PARTNERS



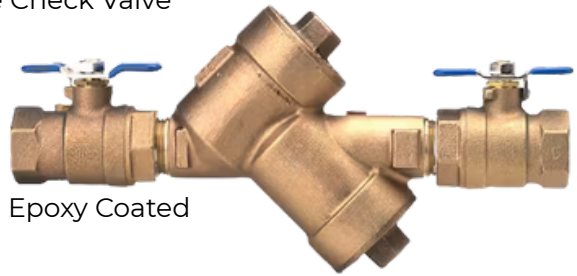
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## BACKFLOW PREVENTERS

Backflow preventers are critical devices that stop contaminated water from flowing back into clean water systems. They ensure safety and compliance in municipal, industrial, and irrigation applications by maintaining the integrity of potable water supplies

- **Types:** Reduced Pressure Zone (RPZ) Assembly, Double Check Valve Assembly (DCVA)
- **Sizes:** 1/2" (15mm) to 10" (250mm)
- **Pressure Classes:** Up to ANSI Class 150
- **Body Materials:** Bronze, Stainless Steel, Fusion Bonded Epoxy Coated Cast Iron
- **Actuation:** Internal spring-loaded check valves and differential pressure relief valve
- **Standards:** ASSE 1013 (RPZ), ASSE 1015 (DCVA), AWWA C511, CSA B64



Prevent Contamination

Irrigation Networks

Industrial Water Systems

## BUTTERFLY VALVES

Butterfly valves are quarter-turn valves used for regulating or isolating flow in water and wastewater systems. They offer compact design, quick operation, and reliable performance for municipal and industrial applications



- **Types:** Concentric (Loose or Bonded Liner), Double Eccentric, Wafer, Lug, Double Flanged (Short/Long body)
- **Sizes:** 1 1/2" (40mm) to 96" (2400mm)
- **Pressure Classes:** ANSI Class 150 to 2500
- **Body Materials:** Ductile Iron, Cast Iron, Carbon Steel, Stainless Steel; Disc in Ductile Iron (Rilsan/Nylon Coated), Stainless Steel (CF8M), Aluminium Bronze
- **Actuation:** Manual (Lever/Gearbox), Electric, Pneumatic, Hydraulic
- **Standards:** BS EN 593, API 609, AWWA C504/C516, ISO 5752, MSS SP-67

Water Distribution

Pumping Stations

Wastewater Systems

## CHECK VALVES

Check valves allow flow in one direction and automatically prevent reverse flow, protecting pumps, pipelines, and equipment in water and wastewater systems. They help maintain system efficiency and reduce maintenance by preventing water hammer and backflow-related damage

- **Types:** Swing Check, Tilting Disc, Dual Plate (Wafer), Ball Check, Silent (Globe Style), Rubber Flapper, Nozzle Check
- **Sizes:** 1 ¼" (32mm) to 54" (1400mm)
- **Pressure Classes:** ANSI Class 125 to 300
- **Body Materials:** Ductile Iron, Cast Iron, Carbon Steel, Stainless Steel, with Bronze, Gunmetal, or EPDM/NBR seats
- **Actuation:** Self-acting (flow-actuated), options for Lever & Weight/Spring for slam control
- **Standards:** BS EN 1074-3, AWWA C508, API 594



Pumping Systems

Prevent Backflow

Wastewater Lines

## FOOT VALVES

Foot valves are installed at the inlet of pumps to prevent backflow and maintain prime. They protect pumps, ensure smooth operation, and enhance system reliability in water and wastewater applications. They also reduce maintenance needs and help sustain consistent flow in pumping systems



- **Types:** Ball type, Disc type, with integrated strainer basket
- **Sizes:** 1" (25mm) to 24" (600mm)
- **Pressure Classes:** Up to ANSI Class 150
- **Body Materials:** Cast Iron, Ductile Iron, Stainless Steel, PVC, with NBR or EPDM seats
- **Actuation:** Self-acting (opens from pump suction, closes by gravity/back-pressure)
- **Standards:** Manufacturer-specific, designed to meet general check valve principles

Pump Suction Lines

Prevent Backflow

Water Intake Systems

## GATE VALVES

Gate valves provide reliable shut-off in water and wastewater pipelines. They ensure minimal pressure loss when fully open and protect system components by isolating sections for maintenance. Ideal for applications requiring tight sealing and long-term durability. They are suitable for both high and low-pressure systems, offering versatile performance across municipal and industrial networks

- **Types:** Resilient Seated (Wedge), Metal Seated, Rising Stem (OS&Y), Non-Rising Stem (NRS)
- **Sizes:** 2" (50mm) to 100" (2500mm)
- **Pressure Classes:** ANSI Class 150 to 300
- **Body Materials:** Ductile Iron (EN-GJS-500-7), Cast Iron, with EPDM or NBR vulcanised wedge and Gunmetal/Bronze/Stainless Steel seats
- **Actuation:** Manual (Handwheel/Cap Top), Electric, Gearbox (Bevel/Spur)
- **Standards:** BS 5163, BS EN 1074-1/2, AWWA C515, DIN 3352, WIS 4-52-01



Wastewater Pipelines

Pumping Stations

Treatment Plant Sections

## PLUG VALVES

Plug valves provide reliable flow control and shut-off in wastewater systems. Their simple design ensures quick operation, minimal leakage, and long-term durability. Ideal for applications requiring precise flow management and resistance to abrasive or corrosive fluids. They also reduce maintenance requirements and ensure consistent performance in demanding wastewater applications



- **Types:** Eccentric (Round or Rectangular Port), Lubricated, Non-Lubricated
- **Sizes:** 1/2" (15mm) to 36" (900mm)
- **Pressure Classes:** ANSI Class 150 to 300
- **Body Materials:** Cast Iron, Ductile Iron, with welded Nickel seat and rubber-coated plug (EPDM/NBR)
- **Actuation:** Manual (Lever/Gearbox), Electric, Pneumatic, Hydraulic
- **Standards:** AWWA C517, EN 12266

Chemical Dosing Lines

Pumping Stations

Wastewater Pipelines

## AIR RELEASE / VACUUM VALVES

Air Release and Vacuum Valves are essential for maintaining the efficiency and safety of water and wastewater pipelines. They automatically release trapped air during operation and allow air intake during pipeline draining, preventing vacuum conditions that can cause pipeline collapse or flow interruption

- **Types:** Single Orifice (Small), Large Orifice (Kinetic), Double Orifice (Combination), Anti-Slam, Underground, Composite & Ductile Iron
- **Sizes:** 1/2" (15mm) to 12" (300mm)
- **Pressure Classes:** ANSI Class 150 to 300
- **Body Materials:** Reinforced Nylon, Ductile Iron, Cast Iron, Stainless Steel (AISI 316)
- **Actuation:** Self-acting (float-operated)
- **Standards:** BS EN 1074-4, AWWA C512, WIS 4-52-01



Distribution Networks

Pumping Stations

Water Transmission Lines

## KNIFE GATE VALVES

Knife Gate Valves are specifically designed for handling thick, viscous, and abrasive media in wastewater and sludge applications. Their sharp-edged gate easily cuts through solids, ensuring reliable isolation and preventing clogging in pipelines. Ideal for wastewater treatment plants, mining, and industrial slurry systems, these valves provide dependable shut-off and low-maintenance operation even in harsh environments



- **Types:** Uni-directional, Bi-directional, Wafer, Lugged, and Flanged
- **Sizes:** 2" (50mm) to 60" (1500mm)
- **Pressure Classes:** Up to ANSI Class 150
- **Body Materials:** Ductile Iron, Cast Iron, Stainless Steel (CF8/CF8M), with replaceable EPDM/NBR seats or metal seats
- **Gate Material:** Stainless Steel (304/316/2205 Duplex)
- **Actuation:** Manual (Handwheel), Pneumatic, Electric, Hydraulic
- **Standards:** MSS SP-81, AWWA C520, BS EN 593, AS 4792

Thickened Sludge Systems

Pump Isolation

Sewage Treatment Works

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# QUARTER TURN BALL VALVES

Quarter Turn Ball Valves allow fast and reliable on/off flow control in water and wastewater systems. Their compact design ensures tight sealing, minimal pressure drop, and long service life. Ideal for applications requiring quick operation, low maintenance, and durability under continuous use. They are suitable for both high and low-pressure networks, ensuring consistent performance across municipal and industrial systems

- **Types:** 2-way, 3-way, Resilient Seated, Metal Seated, Floating Ball, Trunnion Mounted
- **Sizes:** 1/2" (15mm) to 36" (900mm)
- **Pressure Classes:** ANSI Class 150 to 300
- **Body Materials:** PVC-U, PP-H, PVDF, ABS (thermoplastic); Ductile Iron, Stainless Steel (metallic)
- **Actuation:** Manual (Lever), Electric, Pneumatic
- **Standards:** AWWA C507, ISO 17292, API 608

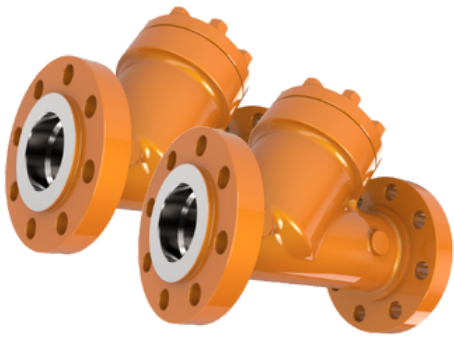


Wastewater Pipelines      Pumping Systems      Chemical Dosing Lines

# STRAINERS

Strainers filter out solids and debris from water and wastewater pipelines, protecting pumps, valves, and other equipment from damage. They ensure smooth operation, reduce maintenance, and enhance system reliability. Essential for maintaining efficiency and preventing blockages in municipal and industrial wastewater networks

- **Types:** Y-Type, Basket Type, T-Type, Duplex
- **Sizes:** 1/2" (15mm) to 24" (600mm)
- **Pressure Classes:** ANSI Class 150 to 300
- **Body Materials:** Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel, Bronze, PVC
- **Actuation:** Manual cleaning (blow-off connection) or automatic backwash systems
- **Standards:** Manufacturer-specific design; flanges comply with EN 1092-2 or ASME B16.5



Remove debris      Protect pumps      Wastewater systems



# AUTOMATIC CONTROL VALVES

Automatic Control Valves regulate flow, pressure, and level in water and wastewater systems without the need for external power. They ensure stable and efficient operation by automatically adjusting to changing system conditions, maintaining optimal performance throughout the process



- **Types:** Pressure Reducing, Pressure Sustaining/Relief, Level Control, Flow Control, Pump Control, Surge Anticipating, Solenoid Control.
- **Sizes:** 2" (50mm) to 36" (900mm)
- **Pressure Classes:** ANSI Class 150 to 300
- **Body Materials:** Ductile Iron, Cast Iron, with Stainless Steel (316) pilot components
- **Actuation:** Pilot-Operated (Hydraulic/Diaphragm), Solenoid Override.
- **Standards:** BS EN 1074-5, WRAS, Reg 31 compliant

Pressure Regulation

Pump Protection

Level Management

# ACTUATION SYSTEMS

Automation ensures smooth operation, precise flow control, and improved safety in wastewater treatment plants. Our range includes electric, pneumatic, and hydraulic actuators, compatible with advanced control systems for efficient monitoring and diagnostics



- **Electric Actuators** – Reliable, precise, and ideal for remote pump stations or in-plant automation. Compatible with SCADA and digital protocols
- **Pneumatic Actuators** – Fast-acting with fail-safe capability, perfect for emergency shutdowns and chemical dosing lines
- **Hydraulic Actuators** – High-torque output for large valves in main process lines, influent channels, and effluent discharge
- **Benefits** – Remote operation, reduced manual intervention, consistent performance, and improved process efficiency

Chemical Dosing

SIL Certification

Automated Valve Control

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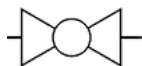
# VALVE INVENTORY READY FOR DELIVERY

## EXTENSIVE VALVE INVENTORY FOR IMMEDIATE DELIVERY

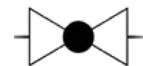


At Flowlink, our extensive stock includes a comprehensive range of valves, ensuring you find exactly what you need:

**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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