



Waterworks Solutions

Water Control Products for Waterworks.



Zurn Waterworks Solutions



Zurn Engineered Water Solutions® is a recognized leader in commercial, municipal, and industrial markets, delivering sustainable building solutions for new construction and retrofit applications.

At Zurn we are committed to providing smart solutions that save both time and money. Our goal is serving the customer through innovation, continuous improvement, and assurance behind every installation.

Choose Zurn for a reliable, recognized manufacturer to supply your entire installation, from behind the wall rough-in, to finish trim product and fixture systems.

- 3** Value Proposition
- 5** Total Waterworks Solutions
- 6** Pressure Reducing Stations
- 8** Pump Stations
- 10** Water Distribution Systems
- 12** Water Storage
- 14** Water Treatment
- 16** Reclaimed Water Treatment and Systems
- 18** Additional Products



Zurn products may be used strategically to assist in the overall and comprehensive plan to achieve LEED® credit. For additional assistance on Zurn products for LEED/Green projects, please email us at zurn-info@zurn.com

Water Supplier

- Low maintenance / easy to clean
- Ease of repair and low-cost repair kits
- Superior low life-cycle cost
- Industry leading customer and technical support
- Theft deterrent product options
- Simple product designs supported by superior value proposition
- 100% compliance with Lead-free law

Civil/Consulting Engineer

- Products comply with all standards and specifications
- Products designed for installation in tight spaces
- CAD and BIM drawings available on www.zurn.com
- Low-pressure drop as documented by FCCCHR@USC's approval documents
- Complete line of control valves, backflow preventers, and pressure regulating valves for water distribution systems
- Large breadth of drainage products

Underground/Site Utility Contractor

- Simple and easy installations save time
- Superior field technical support
- Multiple configurations providing installation versatility
- Industry leading on-time delivery and availability
- Low maintenance / easy to clean
- Ease of repair and low-cost repair kits
- Superior product bundle under one accountable brand

Distribution Partner

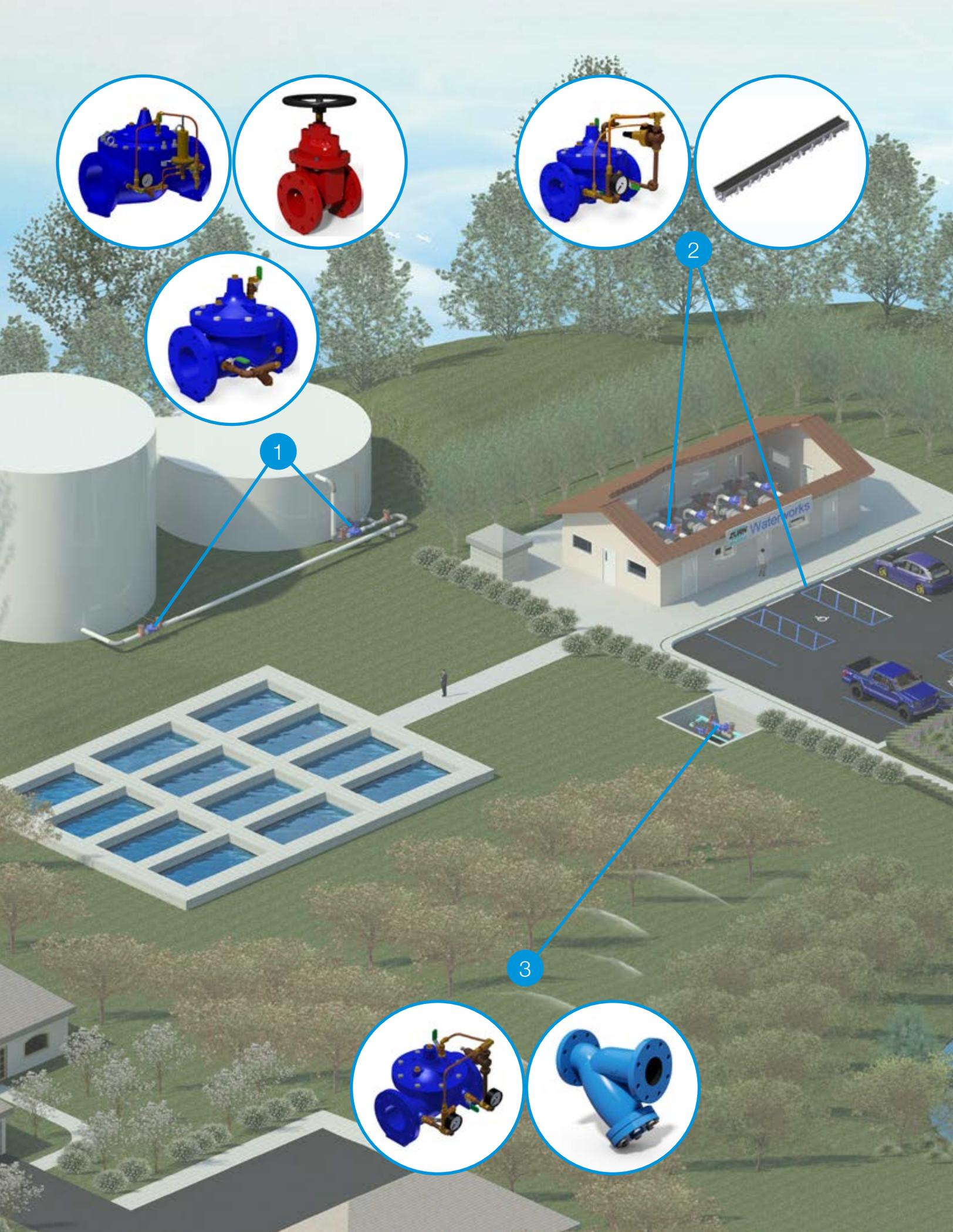
- Superior product bundle under one brand for ease of ordering and logistics management
- Satisfy customers with products that meet their needs
- Industry leading on-time delivery and availability
- Superior field sales support
- Large breadth of drainage products



1

2

3



Total Waterworks Solutions

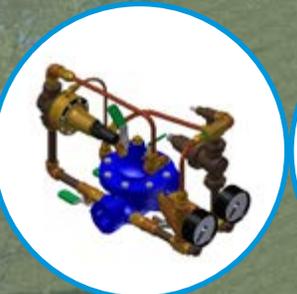
- 1 Potable Storage**
 ZW222 Altitude Control Valve
 48 NRS Gate Valve
 ZW204 Float Control Valve
- 2 Potable Pump Station**
 ZW205 Pressure Relief/Pressure Sustaining Control Valve
 Z886 Linear Trench Drain
- 3 Potable Pressure Reducing Station**
 ZW209 Pressure Reducing Control Valve
 FSC Flanged Cast Iron Strainer
- 4 Fire Protection System**
 ZW209FP Pressure Reducing Control Valve for Fire Protection Systems
 350ASTDA Stainless Steel Double Check Detector Assembly
- 5 Potable Distribution System**
 ZW209E Pressure Reducing Valve with Solenoid Shut-off
 375AST Stainless Steel Reduced Pressure Principle Assembly
 ZW206 Threaded Solenoid Control Valve
 375XLB Theft Prevention Reduced Pressure Principle Assembly
- 6 Reclaimed Water System**
 ZW209QTH Threaded Pressure Reducing Valve with Downstream Surge Protection
 975XL2P Reduced Pressure Principle Assembly Backflow Preventer for Reclaimed Water Systems
 Z415BZ Floor Drain



4

5

6



Pressure Reducing Stations

Pressure reducing stations are required in a municipal water system to manage water pressures and deliver long-term benefits. Proper pressure reduction ensures a longer system lifecycle by reducing system stress and premature component failure or damage, as well as conserving water waste from pipeline leaks.

Zurn offers the ZW209 Series of Automatic Control Valves for pressuring reducing applications. Additional products include the ZW205 relief valve, linear trench drains, slotted drains, floor drains, strainers to remove potentially hazardous dirt and debris from the water system, and shut-off valves to isolate system components.



Model ZW209
Pressure Reducing Automatic Control Valve



Model ZW209R
Pressure Reducing Automatic Control Valve, Reduced Port Body



Model ZW205
Pressure Relief/Pressure Sustaining Automatic Control Valve



Model ZW209E
Pressure Reducing with Solenoid Shut-off Automatic Control Valve



Model ZW209H
Pressure Reducing / Pressure Sustaining Automatic Control Valve



Model ZW209Q
Pressure Reducing Automatic Control Valve with Downstream Surge Protection



Model ZW209A
Pressure Reducing Automatic Control Valve, Angle Body



Model FSC
Cast Iron Flanged Wye Type Strainer



Z886 Perma-Trench® System
6" [152 mm] wide grate seat area, 4" throat, pre-sloped trench drainage system



Z163
15" Diameter Combination Main Roof and Overflow Drain with Silhouette Domes and Double Top-Set® Deck Plate



Z415BZ
Leveling Floor Drain



Model 48 Gate Valve
Available with flanged, grooved, or flanged x grooved end connections

ZW200 Automatic Control Valve Series

Zurn Wilkins is a recognized and trusted leader in waterworks and backflow products for commercial, municipal, and industrial markets, delivering innovative solutions with the lowest total cost of ownership. Zurn Wilkins has been serving ACV application for over 20 years, providing key insight to features which have been engineered into our own ACV product offering.

Zurn Wilkins ACV series utilizes all the best features of the valves in the industry, along with our own design enhancements centered on customer value and ease of service. Our goal is serving the customer through innovation, continuous improvement, and assurance behind every installation.

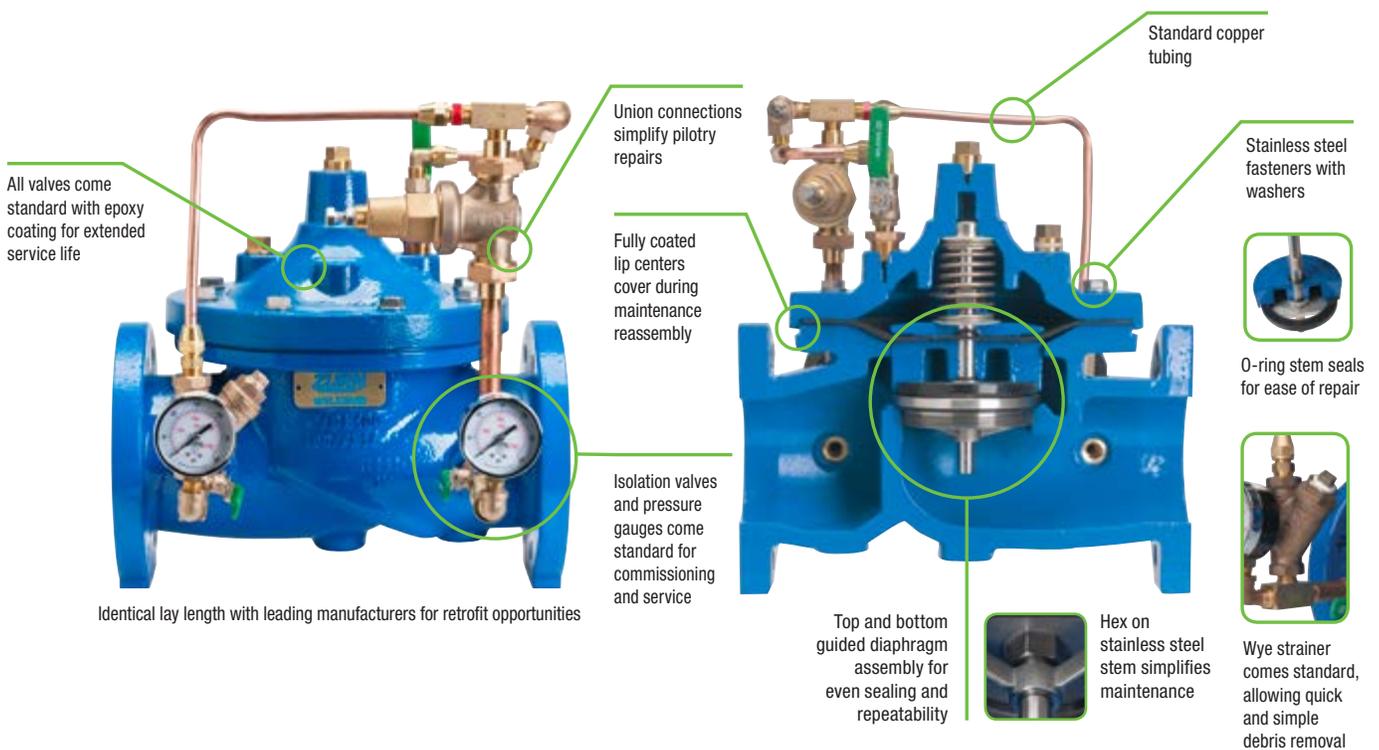
- Valve design focused on simplifying maintenance and repair
 - Isolation valves allow for service and maintenance without shutting down the system
 - Union connections simplify pilotry repairs
 - Wye strainer can be cleaned in-line without system shut-down
 - Hex on main valve stem allows for use of standard tools
- Standard valve features enhance total cost of ownership
 - Pressure gauges allow for constant system monitoring
 - Epoxy coating lengthens the service life of the valve
 - Stainless steel hardware resists corrosion over time
 - Simplified maintenance with readily available repair kits
- 48 hour lead time speeds delivery, maximizes up-time
- Equivalent lay length to leading manufactures for ease of retrofit
- ZurnSpecSM specification tools available on Zurn.com



ZW209SH, with stainless braided hose option



ZW209SP, with stainless steel pilotry option



Pump Stations

Pump stations boost pressure to move water through a system to the point of use. Changes in terrain and demand for water necessitate pump stations.

Traditional pump stations require automatic control valves to manage pump opening, closing, and operations. Pumps by nature can create challenges within a water system, which are resolved with pressure relief and sustaining ACV's (ZW205) and check valves (ZW218). Safe drainage systems, such as linear trench drains, slotted drains, or floor drains protect your equipment when installed within a structure and provide containment around outdoor equipment. Zurn also offers complimentary products that assure reliability and performance of the pumping equipment.



Model ZW205
Pressure Relief/Pressure Sustaining Automatic Control Valve



Model ZW209Q
Pressure Reducing Automatic Control Valve with Downstream Surge Protection



Model ZW218
Check Automatic Control Valve



Model 375AST
Reduced Pressure Principle Assembly with Stainless Steel Body



Model 350XL
Double Check Valve Assembly



Model SXL
Bronze Wye Type Strainer



Z882 Perma-Trench System
12" [305 mm] wide grate seat area, 9.25" wide throat, pre-sloped trench drainage system



Z886 Perma-Trench System
6" [152 mm] wide grate seat area, 4" throat, pre-sloped trench drainage system



Z888 Hi-Cap® Slotted Drainage System with Heavy-duty Frame
12"-18" Slot drain with 1.75" wide throat



Z1800 Fabricated Stainless Steel Floor Drain
Anti-tilt, extra heavy and special duty perimeter grating



Z415BZ Leveling Floor Drain
Combination invertible membrane clamp and adjustable collar with seepage slots and "Type BZ" polished nickel bronze leveling strainer



Model 48 Gate Valve
Available with flanged, grooved, or flanged x grooved end connections

Zurn Wilkins Backflow Preventers, 2-1/2" – 12"

Zurn Wilkins is recognized as the market leader in backflow products for commercial, municipal, and industrial markets, delivering innovative solutions with the lowest total cost of ownership. Zurn Wilkins offers both the 300 series ductile iron legacy product line, as well as the new 300 series stainless steel product line.

Approvals

- UL®, C-UL®, FM®, FCCCHR@USC®, CSA®, ASSE® approved, AWWA compliant, and lead-free law compliant

Features and Benefits

- Extremely low pressure losses documented by FCCCHR@USC approval data assures accurate and reliable data and verified performance
- Patented, revolutionary new Compound Check™ module provides reliable and secure check closure and low head loss
 - Provides a mechanical “assist,” resulting in very low pressure loss
 - Center stem guided to ensure no backflow
 - Maintainable in-line with cost effective repair kits
- Easy installation due to short lay length and light weight body
 - Ideal for new, retrofit, or replacement installation
 - Small footprint “n” and “z” shape assemblies available
- Lowest cost of ownership with easier and faster repair and maintenance
 - Checks are easily accessible for removal and reinstallation
 - Simple check design allows quick replacement of seal disks and o-rings
 - Value priced repair kits readily available
- OSY, Butterfly, and Post Indicator shut-off options available
- Assemblies available in flange X flange, flange X groove, and groove X groove end OS&Y, post indicator, or butterfly configurations



Zurn Wilkins Resilient Seated Shut-Off Valves

Zurn Wilkins manufactures a line of lead-free resilient seated gate valves in compliance with AWWA C-509 and C-550. Included in the mix are the Model 48 Gate Valve, in both NRS (equipped with handwheel) and OS&Y. Both are available with flanged, grooved, or flanged X grooved end connections. Zurn Wilkins provides stainless steel stems as standard equipment, which provide greater strength, corrosion resistance, and are theft resistant.

- Flanged and flanged x grooved sizes 2 1/2", 3", 4", 6", 8" 10" and 12"
- Grooved sizes 2 1/2", 3", 4", 6", 8" and 10"
- UL® Listed, C-UL® Listed, and FM® Approved
- AWWA 509 Compliant



NRS – Available with flanged, grooved, or flanged x grooved end connections



OSY – Available with flanged, grooved, or flanged x grooved end connections

Water Distribution Systems

Interconnecting multiple water distribution systems can cause challenges, particularly when systems operate under different pressures. Zurn Wilkins ZW209 Pressure Reducing, ZW218 Check, and ZW205 Relief Valves perform the necessary functions required of complex distribution systems.

Zurn is the industry leader in backflow protection against the unwanted reversal of flow to maintain the highest level of water system safety and protection. Zurn's Model 600XL and 500XLYSBR direct acting pressure reducing valves are durable and reliable, assisting in pressure management for smaller pipelines. Our innovative designs, focus toward product quality, ease of maintenance, and lowest lifecycle cost set Zurn apart as the leader in Engineered Water Solutions.



Model ZW209
Pressure Reducing
Automatic Control Valve



Model ZW218
Check Automatic Control Valve



Model ZW205
Pressure Relief/Pressure Sustaining
Automatic Control Valve



Model 350AST
Double Check Valve Assembly
with Stainless Steel Body



Model 375A
Reduced Pressure Principle Assembly
Backflow Preventer



Model 375XL
Reduced Pressure Principle Assembly



Model 500XLYSBR
Water Pressure Reducing Valve
with Wye Type Strainer



Model 375XLB
Theft Prevention
Reduced Pressure Principle Assembly



Model 600XL
Water Pressure Reducing Valve

Pressure Regulators

Zurn Wilkins direct-acting pressure regulators are used on potable water systems to reduce high inlet pressure to a lower outlet set pressure. The balanced piston design enables the pressure reducing valve to react in a controlled manner to changes in a water system's demand, while providing protection from variable inlet pressures.

- Internal bypass prevents pressure build-up caused by thermal expansion
- Corrosion resistant - bronze bodies with either bronze or composite spring chamber
- Connection flexibility - union connections standard, multiple union connections offered, such as FNPT, MNPT, Copper, and PEX
- Available tapped with pressure gauge
- Zurn Wilkins pressure regulator line offers various adjustment ranges

Model 600XL

Sandy, debris laden water systems result in frequent PRV strainer cleanings. The 600XL, with its separate strainer cap allows this task to be completed rapidly.

- Proven performance and reliability
- Sizes: ½", ¾", 1", 1 ¼", 1 ½" and 2"
- Integral stainless steel strainer with separate access cover



Model 500XLYSBR

- Highest capacity provides greatest flow capabilities with least amount of fall-off
- Sizes: ½", ¾", 1", 1 ¼", 1 ½", 2", 2 ½" and 3"
- Separate Wye strainer for maximum particulate elimination



Water Storage

Water storage, such as service reservoirs, ensures sufficient head of water to help move water through the distribution system, and provides capacity to even out peak water demand. Zurn offers multiple valves utilized in water storage applications, including ZW209E pressure reducing solenoid shut-off, ZW204 float valve, and ZW221/ZW222 altitude valve.

Properly designed drainage systems can help prevent erosion in areas around water storage facilities. Examples of the drainage systems that are utilized for water storage are linear drains, slot drains, and floor drains. Zurn also offers complimentary products that assure the safety and longevity of the storage facility equipment.



Model ZW222
Altitude Control Valve



Model ZW209E
Pressure Reducing Automatic Control Valve with Solenoid Shut-off



Model ZW204
Non-Modulating Float Operated Control Valve



Z874-12 Perma-Trench System
17" wide grate seat area, 12" wide throat, pre-sloped trench drainage system



Z888 Hi-Cap Slot Drain
12"-18" slot drain with 1.75" wide throat



Z415BZ Leveling Floor Drain
Combination invertible membrane clamp and adjustable collar with seepage slots and "Type BZ" polished nickel bronze leveling strainer



Model 975XL2
Reduced Pressure Principle Assembly



Model 350XL
Double Check Valve Assembly



Model 350
Double Check Valve Assembly



Model 950XLT2
Double Check Valve Assembly



NRS
Available with flanged, grooved, or flanged x grooved end connections



OSY
Available with flanged, grooved, or flanged x grooved end connections

Resilient Wedge Shut-Off Valve Options Model 48 Gate Valve

Specification Drainage

The innovative BZ option for both floor drain and cleanout enable the contractor to reduce pooling by making effortless adjustments to the pitch of their drain set, after the concrete pour. The durable all metal construction prolongs the life of the drain.

- New innovative patent-pending design improves sanitation through minimized pooling
- Virtually eliminates labor resulting from improperly set drains
- Offers effortless leveling and height adjustments after the concrete pour
- Eliminates complications with loose leveling shims
- Dura-Coated cast iron body
- Allows 360° of quick and easy adjustment
- Meets ASME A112.6.3 and A112.36.2M standards

Z415BZ Leveling Floor Drain

- Dura-Coated cast iron body with bottom outlet
- Combination invertible membrane clamp and adjustable collar with seepage slots and “Type BZ” polished nickel bronze leveling strainer
- Virtually eliminates labor resulting from improperly set drains
- Eliminates complications with loose leveling shims
- New innovative patent-pending design improves sanitation through minimized pooling
- Meets ASME A112.6.3 and A112.36.2M standards



Z1400-BZ Leveling Cleanout

- Gas and watertight ABS tapered thread plug
- Round scoriated secured light-duty top with additional leveling adjustment to finished floor
- Virtually eliminates labor resulting from improperly set drains
- Offers effortless leveling and height adjustments after the concrete pour
- Meets ASME A112.6.3 and A112.36.2M standards



Water Treatment

Disinfecting raw water or ground water from its present state to potable water requires reliable and cost effective process equipment. Zurn solutions can assist through the treatment process where multiple valve applications are needed, including the ZW209 pressure reducing valve, ZW206 solenoid valve, ZW204 float valve, and ZW209E pressure reducing with solenoid shut-off.

Water treatment facilities require extensive drainage systems, and often times custom engineered solutions. Zurn linear drainage systems provide unique and effective labor savings solutions for any water treatment project. Examples include linear trench drains, such as Model Z886 and Z888.

Zurn provides backflow prevention, wye strainers, shut-off valves, pressure regulators, and pressure vacuum breakers to help manage the flow and safety of the potable water supply.



Model ZW209
Pressure Reducing Automatic Control Valve



Model ZW206
Solenoid Control Valve



Model ZW204
Non-Modulating Float Control Valve



Model ZW209E
Pressure Reducing with Solenoid Shut-off Automatic Control Valve



Z886 Perma-Trench System
6" [152 mm] wide grate seat area, 4" throat, pre-sloped trench drainage system



Z888 Hi-Cap Slotted Drainage System
Heavy-duty Frame - 12"-18" Slot drain with 1.75" wide throat



Model 375AST
Reduced Pressure Principle Assembly with Stainless Steel Body



Model 350ASTDA
Double Check Detector Assembly with Stainless Steel Body



Model 375XL
Reduced Pressure Principle Assembly



Model 975XL2
Reduced Pressure Principle Assembly



Model 420XL
Pressure Vacuum Breaker Assembly



Model FSC
Cast Iron Flanged Wye Type Strainer



Model SXL
Bronze Wye Type Strainer



Model 600XL
Water Pressure Reducing Valve



Model 500XLYSBR
Water Pressure Reducing Valve with Wye Type Strainer



Model 48 Gate Valve
Available with flanged, grooved, or flanged x grooved end connections

Perma-Trench® System

Zurn Engineered Water Solutions manufactures a large breadth of complete linear drainage and utility trench systems with grating systems that range from decorative brass to special duty Class F load rating.

- Saves up to 75% installation time compared to Cast-in-Place (frame and grate) systems while maintaining structural integrity
- Easy to clean with no specialized tools needed
- Appropriate for applications requiring loading from DIN EN-1433 Pedestrian class A to 200,000# wheel-loading class F, including many ADA compliant grates
- Made to order applications to meet job site needs
- Lightweight polymer composites with longer sections allowing easier job site placement
- Smooth radius interior promotes hydraulic efficiencies
- 0% water absorption
- High density polyethylene structural composite drain channel
- Integral Rebar Clip acts as a combination of anchoring and leveling, located at 20-inch intervals
- Furnished with heavy-duty Class C ductile iron grate tested by DIN 19580 and EN-1433 standards
- Optional grates for many types of traffic, including Pedestrian, ADA compliant, FAA
- Optional factory installed sidewalls enable longer runs and increased hydraulic capacity capabilities



Slot Drains

Zurn's Hi-Cap® Slot Drain is an alternate to corrugated steel slotted drains. The Z888 system offers improved hydraulic efficiencies without the risk of rust and deterioration. The integral rebar clips and mechanical interlocking joints offer installation saving up to 75% over traditional slotted drains.

- High density polyethylene
- All sections are 80-inch modular lengths, inter-locking ends with smooth V bottom
- Pre-sloped frames available
- Integral Rebar Clip acts as a combination of anchoring and leveling, located at 20-inch intervals



Reclaimed Water Treatment and Systems

Reclaimed water systems have increased in use as a way to offset the growing demand for water, particularly for irrigation and other non-potable applications. Although reclaimed water systems have different requirements, many of the valves and components are identical in function to those used in potable systems, with the exception that non-potable system devices must be identified with purple markings or color.

The waterworks industry requires innovative and performance-driven products to support control and safety. Zurn is committed to providing unique solutions that deliver superior water efficiency and safety. With over 100 patented designs, Zurn has a tradition of developing innovative solutions ideal for waterworks applications.



Model ZW209
Pressure Reducing Automatic Control Valve



Model ZW204
Non-Modulating Float Operated Control Valve



Model ZW209E
Pressure Reducing with Solenoid Shut-off Automatic Control Valve



Model 975XL2P
Reduced Pressure Principle Assembly for Reclaimed Water Systems



Model 375XL
Reduced Pressure Principle Assembly



Model 375XLB
Theft Prevention Reduced Pressure Principle Assembly



Model 475
Reduced Pressure Principle Assembly, "N" pattern



Series FLS, MJS, MJFS Valve Setter Assembly
Used with Model 475 to simplify installation and eliminate concrete thrust blocks



Model 375A
Reduced Pressure Principle Assembly Backflow Preventer



Model 375ASTDA
Reduced Pressure Detector Assembly with Stainless Steel Body



Model 420XL
Pressure Vacuum Breaker Assembly



Model FSC
Cast Iron Flanged Wye Type Strainer



Model SXL
Bronze Wye Type Strainer



Model 600XL
Water Pressure Reducing Valve



Model 500XLYSBR
Water Pressure Reducing Valve with Wye Type Strainer



Model 48 Gate Valve
Available with flanged, grooved, or flanged x grooved end connections

Zurn Wilkins Backflow Preventers, 1/2" – 2"

Today's demanding construction environment requires innovation. Zurn Wilkins is recognized as a leader in innovative backflow products. Whether you are looking for a traditional bronze-bodied solution, or a more corrosion and theft resistant solution, Zurn Wilkins offers a product to meet your needs. Zurn Wilkins offers two backflow product series, which include the legacy 975XL2 series, as well as the new 375XL series, which reduces maintenance time to just a few minutes.

Model 375XL

- Innovative, removable composite pressure vessel design is corrosion resistant, and enables rapid maintenance, dramatically decreasing system downtime
- Stainless steel struts provide pipeline rigidity and torsional stability
- Top access to test cocks, shut-off valves, and check assembly make testing easy
- Easy to winterize by removing pressure vessel between shut-off valves
- Blow-out/flush fitting allows system flush



Model 375XLB

- Black epoxy coated struts and ball valves deter theft, especially in public areas



Model 975XL2

- Reliable, top performer with low life-cycle costs
- Time-tested bronze body wye pattern design
- Noryl replaceable seats and silicone rubber check discs
- Multiple options available, including integral 90 degree elbows, wye strainers, and air gap drains
- Specify "P" option for reclaimed water systems



Additional Products

Zurn offers an innovative and reliable waterworks solution with automatic control valves, backflow preventers, drainage solutions, and a wide range of complementary products to put the finishing touches on a water system.

Model 700XL – Dual Check Valve

- Designed for installation on potable water lines to protect against both backsiphonage and backpressure of polluted water into the potable water supply



Test Kits and Test Accessories – Model TG-3 and TG-5 Backflow Test Kits

- The TG-3 (three valve) and TG-5 (five valve) Test Kits are manufactured to the tightest industry standards to meet accuracy requirements. Proper service and calibration will provide years of reliable performance. The Zurn Wilkins Test Kits can be used to test all brands and types of backflow assemblies and can be used to perform all known testing procedures.



Model QT and QTP Quick-Test Test Fittings

- Test faster and more accurately with the QT (brass) and QTP (plastic) Quick Test Fitting. The o-ring design eliminates Teflon tape and the need to wrench the fitting tight in the testcock. Available as a complete set to test all sizes of backflow preventers, or sold in small sets to test either 1/4" – 2", 2-1/2" – 4" or 6" – 12" backflows.



Model 40XL2 – In-Line Single Check Valve

- The soft seated, spring loaded check design is ideal as a backdrop against inlet pressure fluctuations that may cause RP relief valve discharge and/or water hammer.



Model WBR In-Building Riser

- Sizes: 4", 6", 8", and 10" Grooved or Flanged Outlet Connections
- Designed for use to connect a water supply line from outside the building to the water system inside the building
- All stainless steel construction
- UL® Listed & C-UL® Listed
- FM® Approved



RPHBM Integrated Hydrant Meter and 3" Backflow Assembly Hydrant Backflow Meter

- When water is required on construction sites to control dust and provide compaction, the water truck fills in half the time compared to a traditional 2" meter/backflow connection. The hydrant meter is integrated into the backflow design. Constructed of all approved backflow components and installed in a light weight aluminum body. The kickstand is included to support the assembly. Accurate measurements up to 650 GPM.



975XLHBM Hydrant Meter with 2" Backflow – Hydrant Backflow Meter

- A traditional way to provide backflow protection along with a hydrant meter for construction activities. Accurate measurements up to 250 GPM.



ZWFR – Freeze Relief Valve

- In areas that experience an occasional and oftentimes unexpected freeze, severe damage can occur to valves and other equipment that is installed outdoors. The Model ZWFR Freeze Relief Valve will provide a measure of safety by allowing a slight flow of water to discharge, creating a water flow within the product. This introduces warmer water into to body of the product, preventing a freeze from occurring.
 - Easy to install and requires no maintenance
 - Installs on all major brands of backflow preventers and other water conveying equipment





ZURN INDUSTRIES, LLC Specification Drainage Operation
1801 Pittsburgh Avenue, Erie, PA 16502

ZURN WILKINS
1747 Commerce Way, Paso Robles, CA 93446
855-ONE-ZURN (855-663-9876)

In Canada:
ZURN INDUSTRIES LIMITED
3544 Nashua Drive, Mississauga, Ontario L4V 1L2, 905-405-8272

1.855.ONE.ZURN
www.zurn.com

Form No. ZMKTG480-53, Rev. 07/15