



Automatic Control Valves



ZURN.COM US 1.855.ONE.ZURN CANADA 1.877.892.5216



We're Solving Smarter

At Zurn, we aren't just a product and service provider, we're problem solvers – continuously focused on water safety, control and conservation.

From our backflow preventers, valves and fire protection to our finish plumbing, piping systems, and drainage, we are known throughout the industry as a reliable leader.

Choose from our complete ACV selection for compliance, lasting performance and lowest cost of ownership.

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The New Standard

Water purveyors and building owners demand consistent and reliable results. They want water control solutions that withstand corrosion and the test of time. Our Automatic Control Valves deliver just that.

Each valve is engineered with a standard set of features for ease of startup, troubleshooting and maintenance. You'll minimize downtime, labor and total cost of ownership with Zurn Wilkins ACVs.



Pressure Gauges

Pressure gauges are essential to commission the valve and to troubleshoot and validate proper performance. Our valves come standard with pressure gauges at no additional costs.

Epoxy Coating

Epoxy coating adds a layer of protection by reducing corrosion and potential for rust. This standard feature helps extend the overall lifespan and value.

Stainless Steel Hardware

Stainless steel hardware resists corrosion for long-lasting strength and fewer repairs down the road. Our valves come standard with all stainless steel fasteners and internal components.

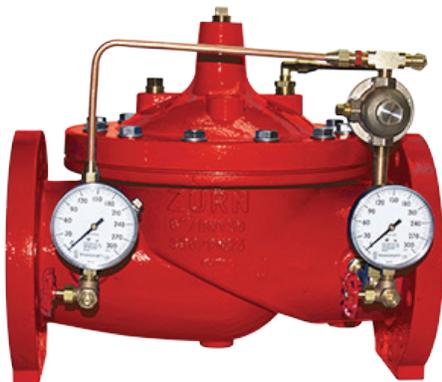


Isolation Valves

Isolation valves in the pilotry are crucial features to ease the commissioning of an ACV as well as provide a valuable tool for troubleshooting and performing maintenance. Our valves come standard with isolation valves at no additional cost.

Low Maintenance

Easy-to-use, affordable repair kits speed up maintenance and considerably save costs compared to full or frequent replacements.



ZW200 Series Features and Benefits

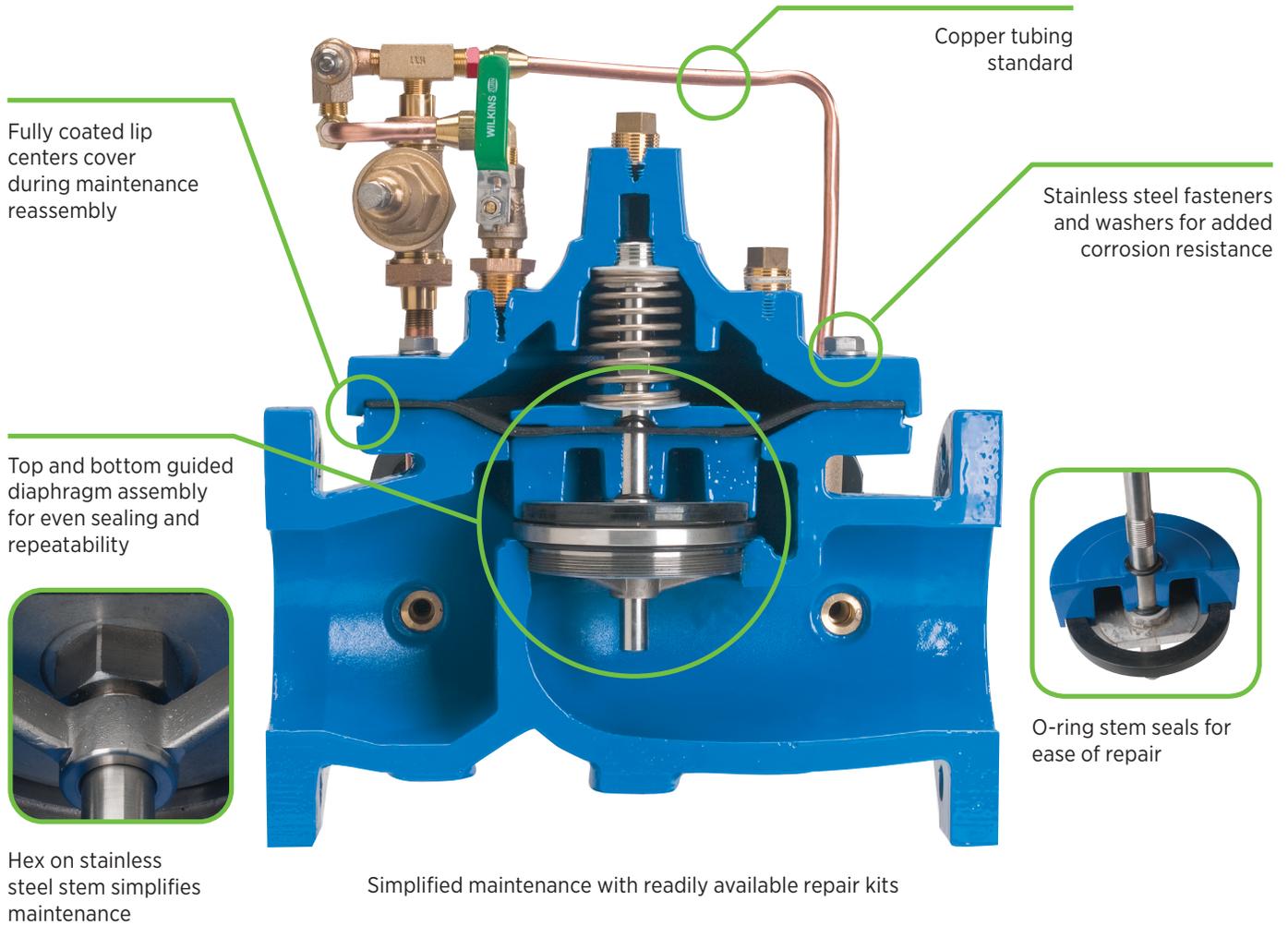


ZW209 Series PRXL Pilot

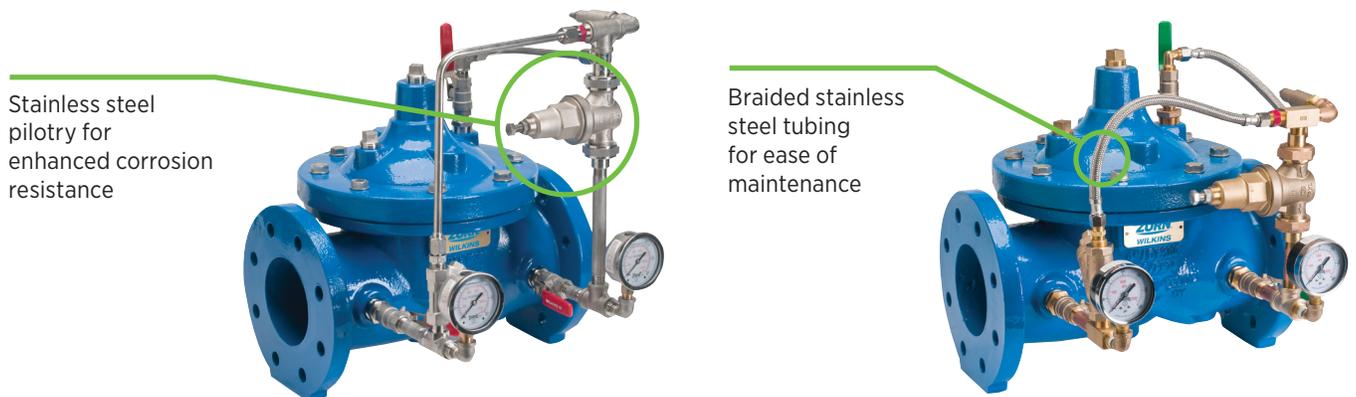


- All components made of corrosion resistant bronze, brass, and stainless steel
- Cartridge design for fast and easy in-line repairs
- Union connections simplify pilotry repairs

PRXL pilot cartridges are available for fast and easy in-line repairs



ZW200 Series Options



To learn more about the available options, go to the ACV Part Number Configuration Tool on page 9.

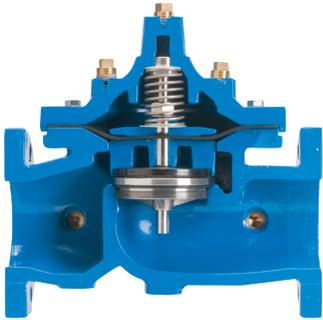
Automatic Control Valve Function Matrix

| FUNCTION | PRODUCT DESCRIPTION | OPERATIONAL CHARACTERISTICS |
|--------------------------|--|---|
| Pressure Reducing Valves | Pressure Reducing Valve | Designed to reduce a high inlet pressure to a lower downstream pressure |
| | Pressure Reducing Valve with Low-flow By-pass | Designed to reduce a high inlet pressure to a lower downstream pressure, and is equipped with a direct acting PRV to handle very low flows from zero to 10 GPM |
| | Pressure Reducing Valve with Solenoid Shut-Off | Designed to reduce a high inlet pressure to a lower downstream pressure, and can be closed electrically |
| | Pressure Reducing / Pressure Sustaining Valve | Designed to reduce a high inlet pressure to a lower downstream pressure, and maintain inlet pressure |
| | Pressure Reducing Valve with Downstream Surge Protection | Designed to reduce a high inlet pressure to a lower downstream pressure, and will provide quick closure should downstream demand rapidly decrease, thereby preventing surges in the downstream piping |
| Equipment Protection | Excess Pressure Shut-off Valve | Valve will close when downstream pressure exceeds a pre-set limit |
| Automated Open/Close | Solenoid Operated Valve | Designed to open or close when the valve receives an electric signal |
| Relief/Sustain | Pressure Relief / Pressure Sustaining Valve | Relieves excess pressure or maintains inlet pressure |
| System/Pump Protection | Check Valve | Valve closes when downstream pressure exceeds upstream pressure |
| Level Control | Non-Modulating Float Valve | Controls the water level in a tank |
| | Altitude Valve | Works with differential pressure to control water level in reservoir |
| Fire Protection Systems | Fire Protection Pressure Reducing Valve | Designed to reduce a high inlet pressure to a lower downstream pressure in fire protection systems |
| | Fire Pump Pressure Relief Valve | Relieves excess pressure in a fire protection system |
| | Fire Protection Pump Suction Control | Maintains a minimum suction pressure to a fire protection pump |

 = Not for use in fire protection applications.  = Specifically designed for use in fire protection applications.

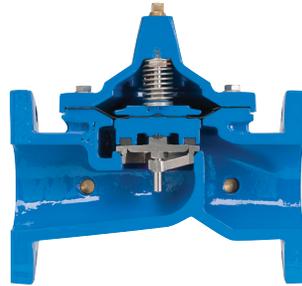
| MODEL # | APPLICATION | MARKET SEGMENTS |  | |
|---------------|---|--|---|---|
| ZW209 |  | Commercial, Education, Healthcare, Industrial, Irrigation, Penal, Retail, Waterworks |  |  |
| ZW209BP |  | Commercial, Education, Healthcare, Irrigation, Penal, Retail |  |  |
| ZW209E |  | Commercial, Education, Healthcare, Industrial, Irrigation, Penal, Waterworks |  |  |
| ZW209H |  | Commercial, Education, Healthcare, Industrial, Penal, Waterworks |  |  |
| ZW209Q |  | Commercial, Education, Healthcare, Industrial, Irrigation, Penal, Waterworks |  |  |
| ZW207 |  | Commercial, Education, Healthcare, Industrial, Irrigation, Penal, Retail, Waterworks |  |  |
| ZW206 |  | Commercial, Industrial, Irrigation, Penal, Waterworks |  |  |
| ZW205 |  | Commercial, Education, Industrial, Penal, Waterworks |  |  |
| ZW218 |  | Commercial, Industrial, Irrigation, Penal, Waterworks | |  |
| ZW204 |  | Industrial, Irrigation, Waterworks | | |
| ZW221 / ZW222 |  | Waterworks, Industrial | | |
| ZW209FP |  | Fire Protection | | |
| ZW205FP |  | Fire Protection | | |
| ZW215FP |  | Fire Protection | | |

ZW200 Series Body Types



Standard Globe

- In-line body
- Sizes 1-1/4" - 16"



Reduced Port

- In-line body with smaller sized internals - optimized for lower flow rates without the need to reduce pipe diameter
- Sizes 3" - 10"



Angle

- Right angle configuration for installation versatility
- Sizes 1-1/4" - 10"

ZW200 Series End Connections



Flanged

- 150# flange, rated to 250 psi max
- 300# flange, rated to 400 psi max
- Sizes 1-1/2" - 16"



Grooved

- Rated to 300 psi max
- Sizes 1-1/2" - 10"
- Easy mechanical connection



Threaded

- Rated to 400 psi max
- Sizes 1-1/4" - 3"

** International connections available*

ACV Part Number Configuration Tool

Example

| | | | | |
|-------|-------|---|---|----|
| 212 - | ZW209 | A | Y | LP |
|-------|-------|---|---|----|

| CODE | DESCRIPTION |
|---------------------------|---|
| Plumbing Pipe Size | |
| 114 | 1-1/4" |
| 112 | 1-1/2" |
| 2 | 2" |
| 212 | 2-1/2" |
| 3 | 3" |
| 4 | 4" |
| 6 | 6" |
| 8 | 8" |
| 10 | 10" |
| 12 | 12" |
| 14 | 14" |
| 16 | 16" |
| Base Part Number | |
| ZW204 | Non-Modulating Float Valve |
| ZW205 | Pressure Relief / Sustaining |
| ZW205FP | Pressure Relief / Sustaining, Fire Protection |
| ZW206 | Solenoid |
| ZW207 | Shut-Off Valve |
| ZW209 | Pressure Reducing |
| ZW209BP | Pressure Reducing w / Integral Bypass |
| ZW209E | Pressure Reducing w / Solenoid |
| ZW209FP | Pressure Reducing, Fire Protection |
| ZW209H | Pressure Reducing / Sustaining |
| ZW209Q | Pressure Reducing / Surge Protection |
| ZW215FP | Pump Control, Fire Protection |
| ZW218 | Check Valve |
| ZW221 | Altitude Level Control - One Way |
| ZW222 | Altitude Level Control - Two Way |
| Body Type | |
| (blank) | Globe In-Line Body |
| A | Angle Body |
| R | Reduced Port Body |

| CODE | DESCRIPTION |
|--|----------------------------------|
| End Connections | |
| (blank) | Class 150 flanged |
| G | Grooved |
| TH | Threaded |
| Y | Class 300 flanged |
| X | Class 150 flanged (ZW209FP Only) |
| Available Options (Varies by Model) | |
| C | Hydraulic Check |
| L | Closing Speed Control |
| O | Opening Speed Control |
| V | Viton Rubber |
| Z | Position Indicator |
| LP | Low Pressure (by model) |
| LP2 | 2nd Lowest Pressure (by model) |
| LP3 | Lowest pressure (by model) |
| HP | High Pressure Range |
| ST | Stainless Steel Tubing |
| SP | Stainless Steel Pilotry |
| SH | Stainless Braided Hose |
| VM | Valve Mounted Float Pilot |
| R1 | 12" Rod Extension |
| R2 | 24" Rod Extension |
| R3 | 36" Rod Extension |
| NC | 120v60hz Normally Closed |
| NO | 120v60hz Normally Open |
| 24NC | 24v60hz Normally Closed |
| 24NO | 24v60hz Normally Open |
| NS | Non-standard Solenoid |
| MO | Manual Operator |
| W | Remote Pressure/Sensing |
| F | Atmospheric Drain |
| RV | Pilot on Reverse side |
| GL | Liquid Filled Gauges |

* International connections available

ZW200 Series Technical Overview



Globe, Flanged ZW209



Globe, Grooved ZW209FPG

Globe Sizes, End Connections, Standards, Pressure Rating

| BODY CONFIGURATIONS | | GLOBE STYLE BODY | | ANGLE STYLE BODY |
|---------------------|------------------------------|------------------|--------------|------------------|
| End Connection | Pressure Rating | Full Port | Reduced Port | Full Port |
| Threaded | 400 psi max. | 1-1/4"-3" | N/A | 1-1/4"-3" |
| Flanged | ANSI Class 150, 250 psi max. | 1-1/2"-16" | 3"-10" | 1-1/2"-10" |
| | ANSI Class 300, 400 psi max | 1-1/2"-16" | 3"-10" | 1-1/2"-10" |
| Grooved | 300 psi max. | 1-1/2"-10" | N/A | 1-1/2"-10" |

Functional Data

| VALVE SIZE | Inches | 1-1/4 | 1-1/2 | 2 | 2-1/2 | 3 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
|--|------------|-------|-------|------|-------|------|------|------|------|------|------|------|------|
| | DN | 32 | 40 | 50 | 65 | 80 | 100 | 150 | 200 | 250 | 300 | 350 | 400 |
| CV FACTOR | GPM | 24 | 27 | 55 | 80 | 130 | 200 | 460 | 830 | 1280 | 1730 | 2325 | 3250 |
| | Liters/Sec | 5.8 | 6.5 | 13 | 19 | 31 | 48 | 110 | 200 | 308 | 416 | 559 | 782 |
| EQUIVALENT LENGTH | Feet | 38 | 65 | 55 | 63 | 70 | 116 | 170 | 206 | 270 | 355 | 316 | 315 |
| | Meters | 12 | 20 | 17 | 19 | 21 | 35 | 52 | 63 | 82 | 108 | 96 | 96 |
| K FACTOR | | 5.6 | 8.2 | 5.4 | 5.2 | 4.7 | 5.9 | 5.7 | 5.3 | 5.5 | 6.1 | 4.9 | 4.3 |
| LIQUID DISPLACED FROM DIAPHRAGM CHAMBER WHEN VALVE OPENS | Gallons | 0.02 | 0.02 | 0.04 | 0.06 | 0.09 | 0.16 | 0.52 | 1.29 | 2.31 | 3.9 | 5.9 | 8.5 |
| | Liters | 0.10 | 0.10 | 0.13 | 0.21 | 0.32 | 0.59 | 1.95 | 4.88 | 8.72 | 14.7 | 22.3 | 32.1 |

Materials/Internals

| | |
|------------------|-------------------------|
| Main Valve Body | Ductile Iron ASTM A536 |
| Main Valve Cover | Ductile Iron ASTM A536 |
| Disc Guide | Stainless Steel |
| Seat | Stainless Steel |
| Disc | Buna-N Rubber |
| Diaphragm | Nylon Reinforced Buna-N |
| Stem | Stainless Steel |
| Spring | Stainless Steel |

Operating Temperature Range

Water 33°F to 140°F

Options and Accessories

Function Options

- BP** Low-flow by-pass on ZW209 Pressure Reducing Valve
- Q** Surge Control
- E** Solenoid to add electrical shut-off to any valve
- H** Add a pressure sustaining feature to main valve
- U** Add a pressure reducing feature to main valve
- C** Add a hydraulic check valve feature to main valve
- L** Closing Speed Control
- O** Opening Speed Control

Connection Options

- G** IPS grooved connections
- TH** NPT female threaded connections
British threaded options available
- Y** ANSI Class 300 flanges
British and ISO flange connections available

Main Valve Options

- V** Viton rubber
- Z** Visual position indicator

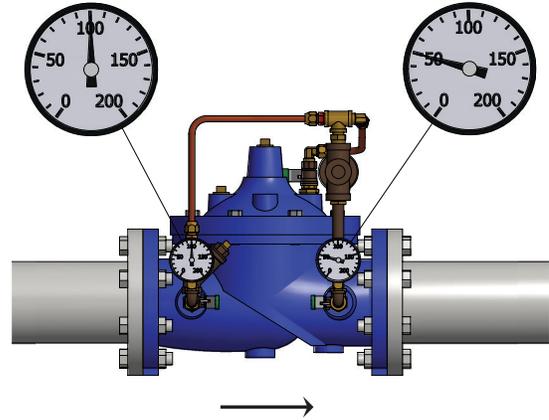
Pilot Options

See individual specs for pilot options with each model



*Refer to zurn.com for updated information

Model ZW209 - Pressure Reducing Valve



Typical Application

- ZW209 pilot operated pressure reducing valve is designed for applications where the reduction of high inlet pressures to a safe and stable outlet pressure is required
- The pilot assembly reacts to changes in downstream pressure, allowing the main valve to modulate, ensuring a constant downstream set pressure
- Pressure regulation is not dependent upon flow rate, resulting in minimal fall-off through the valve
- Available with an optional checking feature

Standard Equipment

- Wye Type Strainer
- Opening Speed Control (sizes 1-1/4" thru 4")
- Pilot Isolation Valves
- Inlet and Outlet Pressure Gauges
- Epoxy Coated
- ANSI Class 150 Flanges
- Copper Pilot Tubing with Brass/Bronze Fittings
- Stainless Steel Seat, Retainer, Cover Guide

Operating Temperature Range

- Water 33°F to 140°F

Pilot Spring Ranges

- 5-25 optional
- 15-150 psi standard
- 30-300 optional

Options (add suffix letters to ZW209)

Function

- BP** Low-flow by-pass on ZW209 Pressure Reducing Valve
- Q** with Surge Control
- E** Solenoid Shutoff
- H** with Pressure Sustaining

Body Types

- Full Port Globe (standard)
- A** Angle Style
- R** Reduced Port

Connections

- G** IPS Grooved
- TH** NPT Threaded
- Y** ANSI Class 300 Flanges

Main Options

- V** Viton Rubber Internals
- Z** Visual Position Indicator

Pilot System

- LP** 5-25 psi Low Pressure Range PV-PRD Pilot (replaces PRXL)
- HP** 30-300 psi High Pressure Range PV-PRD Pilot (replaces PRXL)
- ST** Stainless Tubing and Flare Fittings
- SP** All Stainless Steel Pilotry & Pilot Valve
- SH** Stainless Steel Braided Hoses (replaces Copper Tubing)
- RV** Pilot Installed on Reverse Side
- GL** With Liquid Filled Gauge(s)

*The closing speed control (optional) on this valve should always be open at least three full turns off its seat.

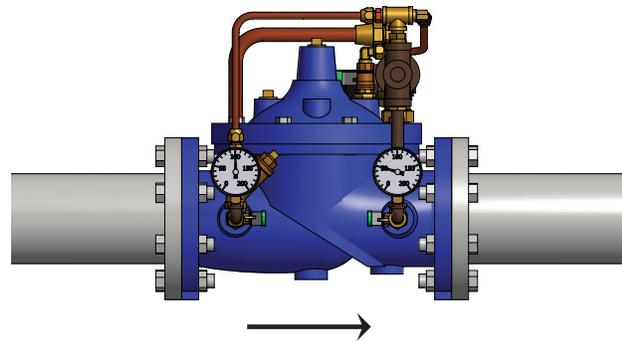
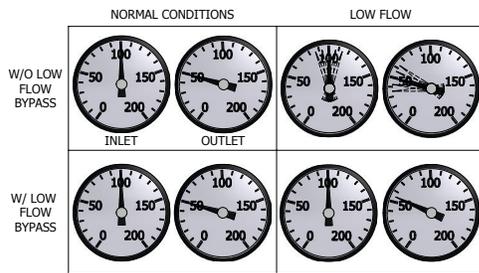
*Refer to zurn.com for updated information

ZW209 Variants



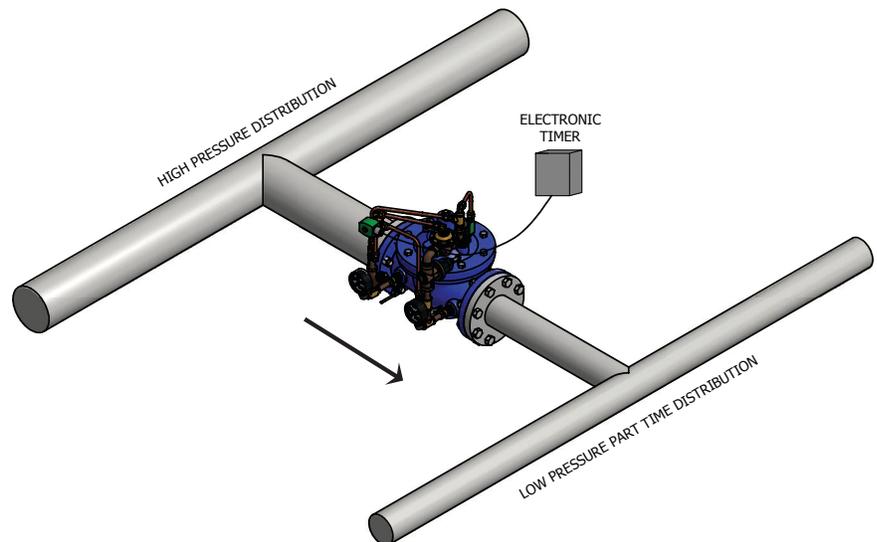
Model ZW209BP – Pressure Reducing Valve with Low-Flow By-Pass

- ZW209BP is a pressure reducing automatic control valve with a by-pass to handle low-flow rates
- ZW209BP maintains the downstream pressure within narrow limits, regardless of inlet pressure fluctuations or varying flow rates
- The by-pass line is equipped with a direct acting PRV in parallel with the main valve to handle very low flows from approximately 0-10GPM



Model ZW209E – Pressure Reducing Valve with Solenoid Shut-Off

- ZW209E is a pressure reducing automatic control valve with a solenoid shut-off in the pilotry
- Maintains the downstream pressure within narrow limits, regardless of inlet pressure fluctuations or varying flow rates
- The solenoid and accelerator pilotry allows the valve to be shut down remotely via an electronic signal

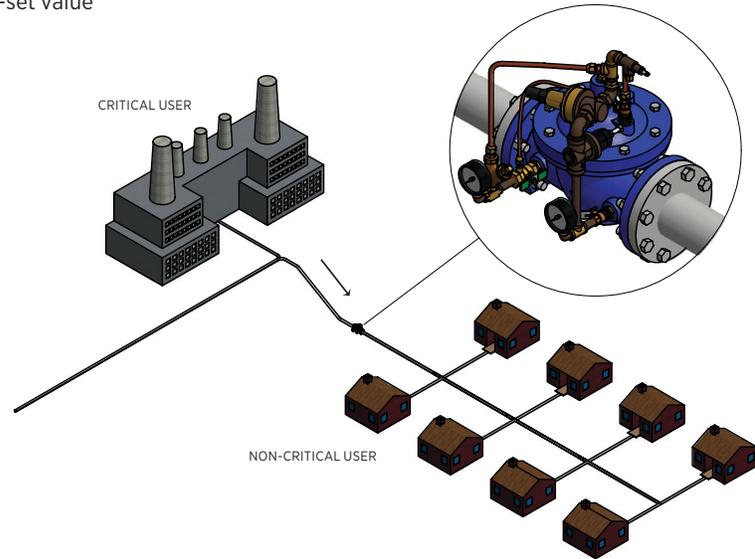


*Refer to zurn.com for updated information



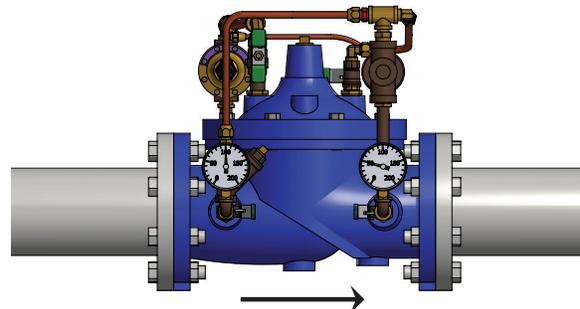
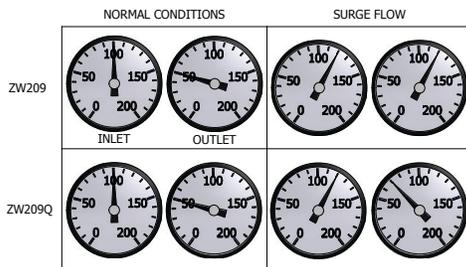
Model ZW209H – Pressure Reducing / Pressure Sustaining Valve

- ZW209H is a pressure reducing valve used where it is also critical to sustain upstream pressure
- Maintains the downstream pressure within narrow limits, regardless of inlet pressure fluctuations or varying flow rates
- Sustains upstream pressure to a critical user and will completely shut-off supply to downstream users in the unlikely event that the upstream pressure drops below a pre-set value



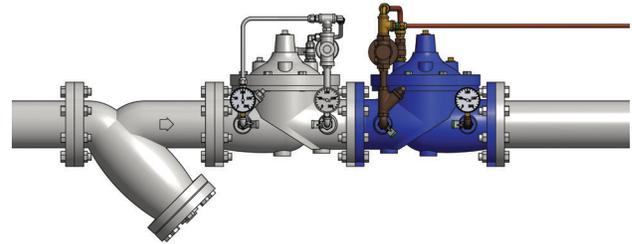
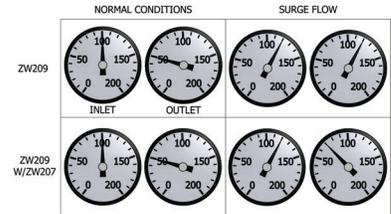
Model ZW209Q – Pressure Reducing Valve with Downstream Surge Protection

- ZW209Q is a pressure reducing valve used where a sudden decrease in downstream demand can create a pressure surge in the plumbing system
- Maintains the downstream pressure within narrow limits, regardless of inlet pressure fluctuations or varying flow rates
- In the event of a pressure surge created by a sudden decrease in downstream demand, the ZW209Q will close rapidly, protecting the plumbing system
- Once the surge dissipates the ZW209Q will return to normal operation



**Refer to zurn.com for updated information*

Model ZW207 - Excess Pressure Shut-Off Valve



Typical Application

- ZW207 excess pressure shut-off valve is commonly used in conjunction with a standard ZW209 pressure reducing valve
- In instances where the ZW209 cannot react quick enough or becomes damaged, the ZW207 will shut down the system, protecting against excess pressure
- ZW207 is designed for many applications where protection of downstream components from high pressure is required

Standard Equipment

- Wye Type Strainer
- Closing Speed Control (sizes 1-1/4" thru 4")
- Pilot Isolation Valves
- Inlet Pressure Gauge
- Epoxy Coated
- ANSI Class 150 Flanges
- Copper Pilot Tubing with Brass/Bronze Fittings
- Stainless Steel Seat, Retainer, Cover Guide

Operating Temperature Range

- Water 33°F to 140°F

Pilot Spring Ranges

- 15 to 150 psi (standard)
- 30 to 300 psi (also available)

Optional Features

Function

C 40XL Hydraulic Check with Isolation Valve

Body Types

— Full Port Globe (standard)
 A Angle Style
 R Reduced Port

Connections

G IPS Grooved
 TH NPT Threaded
 Y ANSI Class 300 Flanges

Main Options

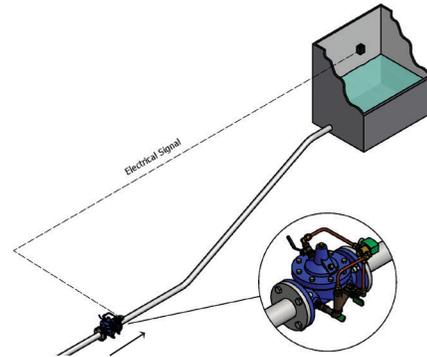
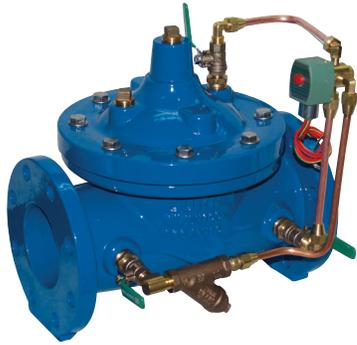
V Viton Rubber Internals, rated 180°F (1-1/4"-4")
 Z ZPI Visual Position Indicator

Pilot System

LP3 5-15 psi Low Pressure Range PV-RLF Pilot
 LP2 10-35 psi Low Pressure Range PV-RLF Pilot
 LP 30-90 psi Low Pressure Range PV-RLF Pilot
 HP 150-300 psi High Pressure Range PV-RLF Pilot
 ST Stainless Steel Tubing and Flare Fittings
 SP All Stainless Steel Pilotry & Pilot Valve
 SH Stainless Steel Braided Hoses (replaces Copper Tubing)
 RV Pilot on Reverse Side
 GL Liquid Filled Gauge

**Refer to zurn.com for updated information*

Model ZW206 - Solenoid Control Valve



Typical Application

- ZW206 solenoid operated control valve is used to control the flow of water in remote locations or hazardous environments via an electrical signal from remote locations or hazardous environments
- Can be used to initiate flow or as a protection/shut-off device
- Factory configured as normally closed (energized to open) or normally open (energized to close)
- Used in conjunction with the Zurn Wilkins 375MS and the Zurn Wilkins Electronic Solenoid Timer (EST) system can prevent against flooding from backflow discharge
- Complete Flood Control Integrated System (FCIS) available as a turnkey assembly

Standard Equipment

- Wye Type Strainer
- Pilot Isolation Valves
- Epoxy Coated
- Closing Speed Control (sizes 6" thru 10")
- ANSI Class 150 Flanges
- Copper Pilot Tubing with Brass/Bronze Fittings
- Stainless Steel Seat, Retainer, Cover Guide

Operating Temperature Range

- Water 33°F to 140°F

Pilot System Specifications

Rubber Parts

Buna-N Rubber Synthetic Rubber

Solenoid Control Body

Brass ASTM B283

Enclosure

NEMA Type 1,2,3,3S,4,4X General Purpose Watertight

Voltages

24,120,240,480-60Hz AC, 110, 220-50Hz AC, 6, 12, 24, 120, 240-DC
Others Available

Max. Operating Pressure Differential

200 psi

Pilot System Specifications (continued)

Coil

| | |
|--------------------------------|------|
| Insulation Molded Class | F |
| Watts AC, 60Hz | 6.1 |
| AC Volt Amps Inrush | 30 |
| AC Volt Amps Holding | 16 |
| Watts DC | 10.6 |

Options (add suffix letters to ZW206)

Function

| | |
|----------|---------------------------------------|
| C | 40XL Check Valve with Isolation Valve |
| L | SC1 Closing Speed Control |
| O | SC1 Opening Speed Control |

Body Types

| | |
|----------|----------------------------|
| _ | Full Port Globe (standard) |
| A | Angle Style |
| R | Reduced Port |

Connections

| | |
|-----------|------------------------|
| G | IPS Grooved |
| TH | NPT Threaded |
| Y | ANSI Class 300 Flanges |

Main Options

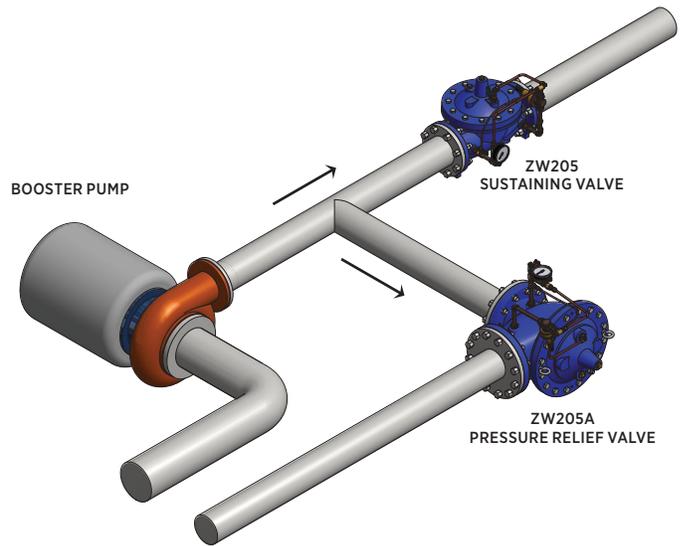
| | |
|----------|--|
| V | Viton Rubber Internals, Rated 180° (1-1/4" - 4") |
| Z | Visual Position Indicator |

Pilot System

| | |
|-------------|---|
| ST | Stainless Tubing and Fittings |
| SP | All Stainless Steel Pilotry & Pilot Valve |
| SH | Stainless Steel Braided Hoses (replaces Copper Tubing) |
| NC | Normally Closed (energize to open) Main Valve, 120vac Solenoid |
| NO | Normally Open (energize to close) Main Valve, 120vac Solenoid |
| 24NC | Normally Closed (energize to open) Main Valve, 24vac Solenoid |
| 24NO | Normally Open (energize to close) Main Valve, 24vac Solenoid |
| NS | Non-Standard Solenoid Specify Voltage/AC/DC/Operation |
| MO | Manual Operator on Solenoid Valve (to control during power failure) |
| W | Independent Operating Pressure |
| F | Atmospheric Drain |
| RV | Pilot Installed on Reverse Side |

*Refer to zurn.com for updated information

Model ZW205 - Pressure Relief/Pressure Sustaining Valve



Typical Application

- ZW205 pilot operated pressure relief/pressure sustaining automatic control valve can be plumbed in two different ways
 1. **Mounted on a branch line** – ZW205, in a relieving function, will open when the pressure exceeds a pre-set limit, relieving pressure from the system
 2. **Mounted inline** – ZW205, in a sustaining function, maintains a minimum upstream pressure by closing off as the upstream pressure begins to drop
- Pilot assembly reacts to changes in upstream pressure, allowing the main valve to modulate between the closed and open position, maintaining desired upstream set pressure
- As long as the upstream pressure is below the set point of the pilot assembly, the main valve will stay in the closed position (sustaining)
- Once the upstream pressure exceeds the set point of the pilot assembly, the main valve will open and relieve the excess pressure (relief)
- Available with an optional checking feature

Standard Equipment

- Wye Type Strainer
- Closing Speed Control (sizes 1 1/4" thru 4")
- Pilot Isolation Valves
- Inlet Pressure Gauge
- Epoxy Coated
- ANSI Class 150 Flanges
- Copper Pilot Tubing with Brass/Bronze Fittings
- Stainless Steel Seat, Retainer, Cover Guide

Operating Temperature Range

- Water 33°F to 140°F

Pilot Spring Ranges

- 5 to 15 psi
- 10 to 35 psi
- 30 to 90 psi
- 50 to 200 psi (standard)
- 150 to 300 psi

* Refer to spec sheet for various ranges

Optional Features

Function

- C 40XL Hydraulic Check with Isolation Valve
- L SC1 Closing Speed Control
- O SC1 Opening Speed Control

Body Types

- Full Port Globe (standard)
- A Angle Style
- R Reduced Port

Connections

- G IPS Grooved
- TH NPT Threaded
- Y ANSI Class 300 Flanges

Main Options

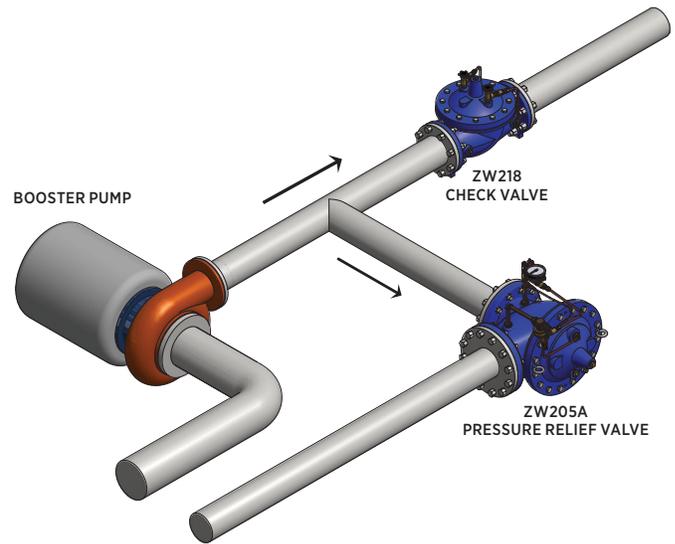
- Z Visual Position Indicator

Pilot System

- LP3 5-15 psi Low Pressure Range PV-RLF Pilot
- LP2 10-35 psi Low Pressure Range PV-RLF Pilot
- LP 30-90 psi Low Pressure Range PV-RLF Pilot
- HP 150-300 psi High Pressure Range PV-RLF Pilot
- ST Stainless Tubing and Fittings
- SP All Stainless Steel Pilotry & Pilot Valve
- SH Stainless Steel Braided Hoses (replaces Copper Tubing)
- RV Pilot Installed on Reverse Side
- GL With Liquid Filled Gauge

*Refer to zurn.com for updated information

Model ZW218 - Check Valve



Typical Application

- ZW218 check valve is generally used after a pump to prevent damage from backflow
- Fully opens when inlet pressure is greater than outlet pressure
- Closes drip tight when outlet pressure is greater than the inlet pressure

Standard Equipment

- Standard with open and closing speed controls
- Epoxy Coated
- ANSI Class 150 Flanges
- Copper Pilot Tubing with Brass/Bronze Fittings
- Stainless Steel Seat, Retainer, Cover Guide

Operating Temperature Range

- Water 33°F to 140°F

Optional Features

Body Types

- Full Port Globe (standard)
- A Angle Style
- R Reduced Port

Connections

- G IPS Grooved
- TH NPT Threaded
- Y ANSI Class 300 Flanges

Main Options

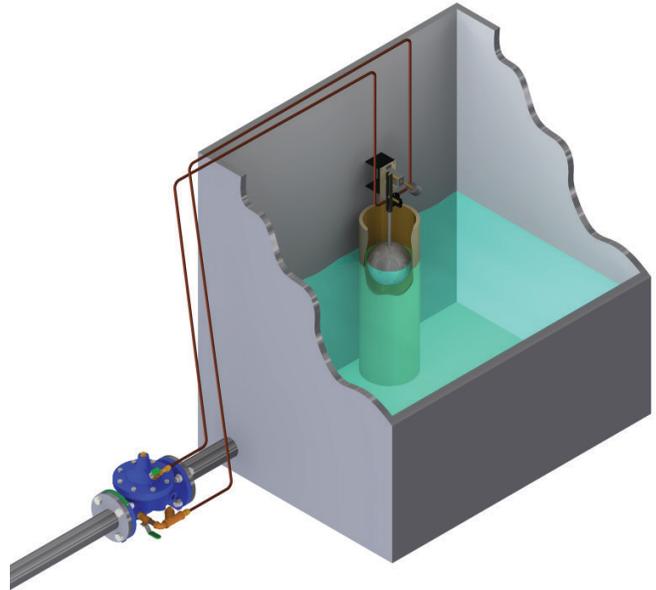
- Z ZPI Visual Position Indicator

Pilot System

- ST Stainless Tubing and Fittings
- SP All Stainless Steel Pilotry & Pilot Valve
- SH Stainless Steel Braided Hoses (replaces Copper Tubing)
- RV Pilot Installed on Reverse Side

**Refer to zurn.com for updated information*

Model ZW204 - Float Valve



Typical Application

- ZW204 pilot operated non-modulating float automatic control valve opens or closes based on the position of a float
- Maintains accurate fluid levels in tanks
 - Once the fluid level reaches the low set-point of the float rod assembly, the main valve opens to fill the tank
 - Once the fluid level reaches the high set-point of the float rod assembly, the main valve closes drip-tight
- ZW204 is a non-modulating valve - it is either fully open or fully closed
- Standard configuration - float pilot is remote-mounted from the valve
- "VM" option allows for valve mounted pilotry

Standard Equipment

- Wye Type Strainer
- Pilot Isolation Valves
- Epoxy Coated
- ANSI Class 150 Flanges
- Copper Pilot Tubing with Brass/Bronze Fittings
- Stainless Steel Seat, Retainer, Cover Guide

Options (add suffix letters to ZW204)

Function

- C 40XL Hydraulic Check with Isolation Valve
- L SC1 Closing Speed Control
- O SC1 Opening Speed Control

Body Types

- _ Full Port Globe (standard)
- A Angle Style
- R Reduced Port

Connections

- G IPS Grooved
- TH NPT Threaded
- Y ANSI Class 300 Flanges

Main Options

- V Viton Rubber Internals, Rated 180° (1-1/4" - 4")
- Z Visual Position Indicator

Pilot System

- ST Stainless Steel Tubing and Fittings (with VM Option)
- SP All Stainless Steel Pilotry & Pilot Valve
- SH Stainless Steel Braided Hoses (replaces Copper Tubing)
- VM Valve Mounted Float Pilot
- R1, R2, R3 1', 2', or 3' Float Rod Extension (5' total length max)
- W Independent Operating Pressure
- RV Pilot Installed on Reverse Side

Operating Temperature Range

- Water 33°F to 140°F

**Refer to zurn.com for updated information*

Model ZW221/ZW222 - Altitude Valve



Typical Installation:

Zurn offers two Altitude Valve models:

- The ZW221 One Way Altitude Level Control Valve controls water level in a tank or reservoir
- The ZW222 Two Way Altitude Level Control Valve controls water level in a tank or reservoir, while also allowing reverse flow, so that only one line is needed to the tank/reservoir. When upstream supply pressure drops below tank pressure, main valve opens, allowing water to flow back upstream
- Accurately controls water level based on relative pressure, without the need for floats and sensors
- Standard valves come with one set point – the valve opens to fill the tank and will close drip-tight once the high water level is reached
- Adjustment ranges available from 5' to 230'
- "D" Delayed Opening/Dual Set Point Option delays opening of valve until water reaches a lower set point

Operating Temperature Range

- Water 33°F to 140°F

Standard Features

- Blue Epoxy Coated, FDA Approved
- Pilot Assembly
 - SXL "Wye" Type Strainer
 - Accelerator Pilot Control
 - 850XL Isolation Valves
- Closing Speed Control
- ANSI Class 150 Flanges
- Position Indicator
- Pressure Gauges
- Gauge Isolation and Sensing Line Flush Valve
- Stainless Steel Braided Hoses/ Brass Fittings

Options (add suffix letters to ZW221 or ZW222)

Function

- D Delayed drawdown level before valve reopens (3 - 20ft)
- E Solenoid override to shut-off valve
- H With Pressure Sustaining
- C Hydraulic Check with Isolation Valve
- O Opening Speed Control

Body Types

- _ Full Port Globe (standard)
- A Angle Style
- R Reduced Port

Connections

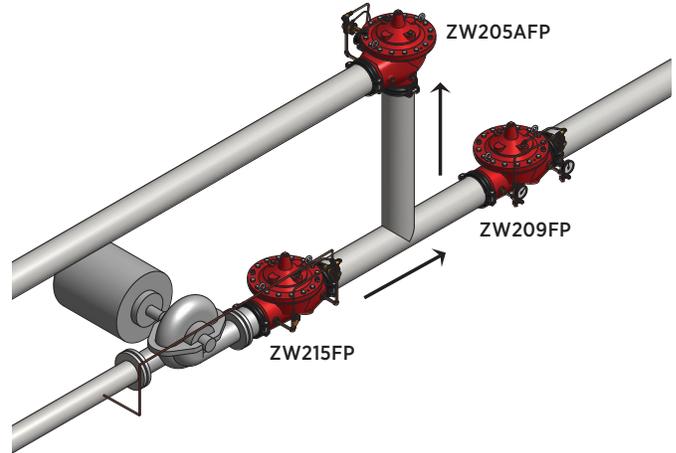
- G IPS Grooved
- TH NPT Threaded
- Y ANSI Class 300 Flanges

Pilot System

- L1 5'-55' adjustment range
- L2 45'-85' adjustment range
- L3 75'-230' adjustment range
- ST Stainless Steel Tubing and Fittings
- F Atmospheric "wet" drain
- RV Pilot Installed on reverse side

**Refer to zurn.com for updated information*

Zurn Wilkins Automatic Control Valves for Fire Protection



Typical Application

- The Fire Protection Series of pilot operated automatic control valves come fully equipped to handle fire protection plumbing needs
- Standard features:
 - Red epoxy coating inside and out for corrosion protection
 - Pressure gauges for quick and easy installation, maintenance, or repair
 - Full complement of agency approvals
- Provided in grooved, flanged, or threaded end connections
- State-of-the-art design and construction with necessary approval sets

Standard Equipment

- Wye Type Strainer
- 3-Way Gauge Isolation Valves
- Epoxy Coated
- ANSI Class 300 Flanges
- Copper Pilot Tubing with Brass/Bronze Fittings
- Stainless Steel Seat, Retainer, Cover Guide

Options

Body Types

- Full Port Globe (standard)
- A Angle Style

Main Options

- RV Pilot Installed on Reverse Side
- SP All Stainless Steel Pilotry & Pilot Valve

Connection Options

- G Grooved Ends (inlet rating 300 psi)
- TH NPT threaded (inlet rating 300 psi)
- X ANSI Class 150 Flanges (inlet rating 250 psi, ZW209FP only)
- ANSI Class 150 Flanges (inlet rating 250 psi, ZW205FP and ZW215FP)
- Y ANSI Class 300 Flanges (inlet rating 300 psi)

Operating Temperature Range

- Water 33°F to 140°F

*Refer to zurn.com for updated information



Model ZW209FP – Fire Protection Pressure Reducing Valve

- ZW209FP pilot operated pressure reducing valve is designed for fire suppression systems to reduce high inlet pressures
- Reacts to changes in downstream pressure, allowing the main valve to modulate, ensuring a constant downstream set pressure, independent of flow rate



Model ZW205FP – Fire Pump Relief Valve

- ZW205FP fire pump relief valve can be installed on a branch line and will open when the pressure exceeds a pre-set limit
- When plumbed in a branch line, the ZW205FP opens to relieve high pressure, protecting the fire protection system from pressure spikes



Model ZW215FP – Fire Protection Pump Suction Control

- ZW215FP fire protection pump suction control valve prevents fire pumps from over-drawing from the supply line
- Prevents damage to the pump or the supply network
- Will throttle or close if suction pressure drops below the set pressure and open once suction pressure rises



**Refer to zurn.com for updated information*

Zurn Wilkins Automatic Control Valve - Accessories



Model ZPI Valve Position Indicator

- Positive visual indicator of current operating position
- Frictionless
- Leak proof
- Easy maintenance and cleaning
- Protected indicator rod
- Can be installed to replace the top plug on any Zurn Wilkins basic main valve

| MODEL ZPI SIZE | HEIGHT ABOVE COVER | NPT |
|----------------|--------------------|------|
| 1-1/4" | 4-1/4" | 1/2" |
| 1-1/2" | 4-1/4" | 1/2" |
| 2" | 4-1/4" | 1/2" |
| 2 1/2" | 4-1/4" | 1/2" |
| 3" | 4-1/4" | 1/2" |
| 4" | 4-1/4" | 3/4" |
| 6" | 6" | 3/4" |
| 8" | 6-3/8" | 1" |
| 10" | 6-3/8" | 1" |
| 12" | 8" | 1" |
| 14" | 8" | 1" |
| 16" | 8" | 1" |



Pressure Gauges

Standard Equipment on all Zurn Wilkins Pressure Reducing and Pressure Relief Automatic Control Valves

- Face Diameter:** 2 1/2"
Connection Size: 1/4" NPT bottom mount
Range: 0-300 psi for 150# Flange and grooved end connections, 0-400 psi for Threaded, 300# flange end connections
Accuracy: +/- 3-2-3% of Span
Bourdon Tube: Phosphor bronze
Window: Plastic
Movement: Brass



Model 40XL2 Check Valve

- Size:** 3/8" thru 3/4"
Body: Cast brass
Poppet: Polyetherimide
Seal Ring: NBR
Spring: Stainless steel



Model SXL Wye Strainer

- Size:** 3/8" thru 3/4"
Body and Cap: Cast bronze ASTM B584 or B806, lead-free
Screen: 20 Mesh stainless steel, 300 series

*Refer to zurn.com for updated information



Pilot Restriction Fitting

Size: 3/8"
Body and Restriction: Brass ASTM B16



Model 850XL – Isolation Valve

Size: 3/8" thru 3/4"
Body: Cast bronze ASTM B584 or B806, lead-free
Ball: Chrome plated bronze ASTM B584 or B806, lead-free
Seats: PTFE Virgin Teflon
Stem: Brass ASTM B16
Stem Packing: PTFE Virgin Teflon
Thrust Washer: PTFE Virgin Teflon
Handle and Nut: Stainless steel



Model PV-ACL – Accelerator Pilot

- Corrosion resistant
- Operates in any position
- Automatic operation
- No lubrication required
- Easy maintenance
- Accelerates the opening and closing of any Automatic Control Valve
- Used on any solenoid or float controlled Automatic Control Valve for faster closure
- Available as both a 2-way valve and a 3-way valve

Size 1/2"
End Detail 1/2" NPT Female
Control Port 1/8" NPT Female
Pressure Rating 400 psi Max
Temperature Rating 140° F Max
Body Cast Lead-Free Bronze



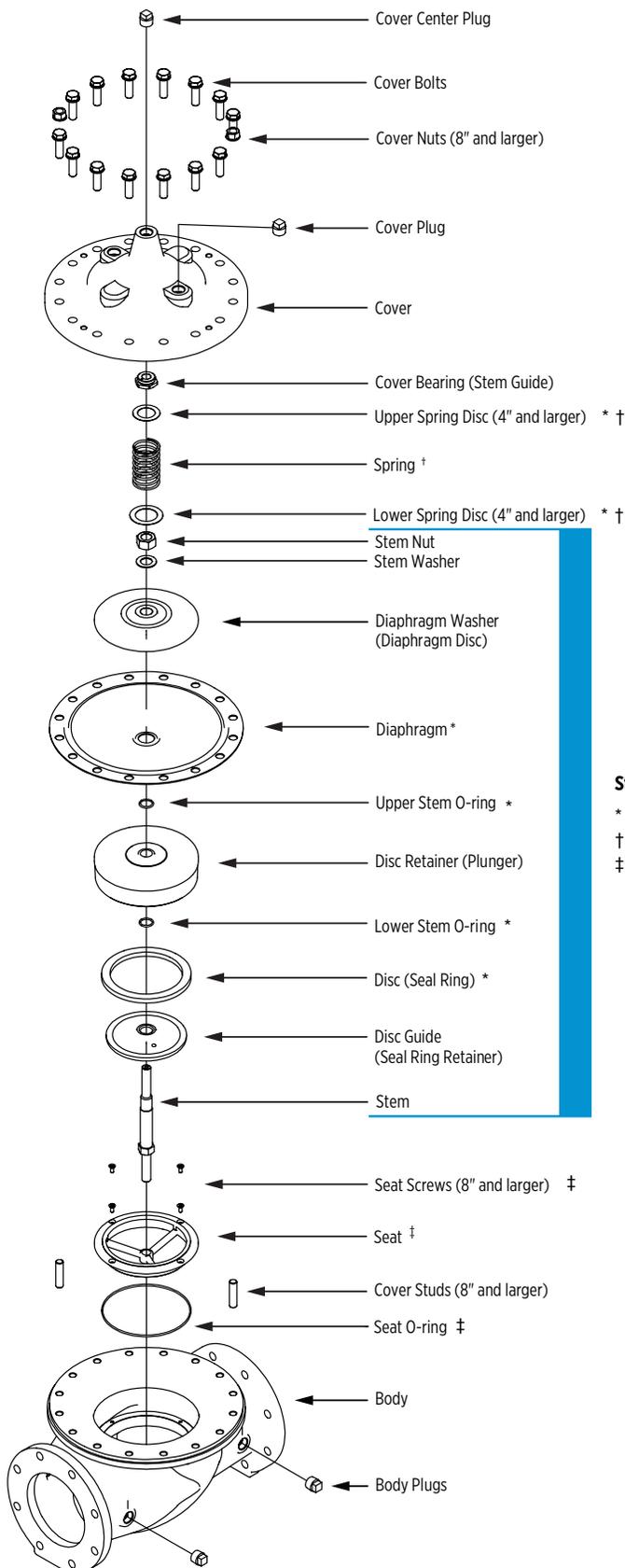
Model SC1 – Opening and Closing Speed Controls

- Corrosion resistant
- Operates in any position
- Easy adjustments
- Automatic operation
- No lubrication required
- Easy maintenance
- Needle valve allowing free flow in one direction and restricted flow in the opposite direction
- Used to slow down the rate at which the main valve opens or closes

Size 3/8"
End Detail 3/8" NPT
 (one connection male, one connection female)
Pressure Rating 400 psi Max
Temperature Rating 140° F Max
Body Cast Lead-Free Bronze

**Refer to zurn.com for updated information*

Repair Kits for All Zurn ZW200 Series ACV Parts



Stem Assembly †

- * Rubber Repair Kit Items
- † Complete Repair Kit Items
- ‡ Seat Repair Kit

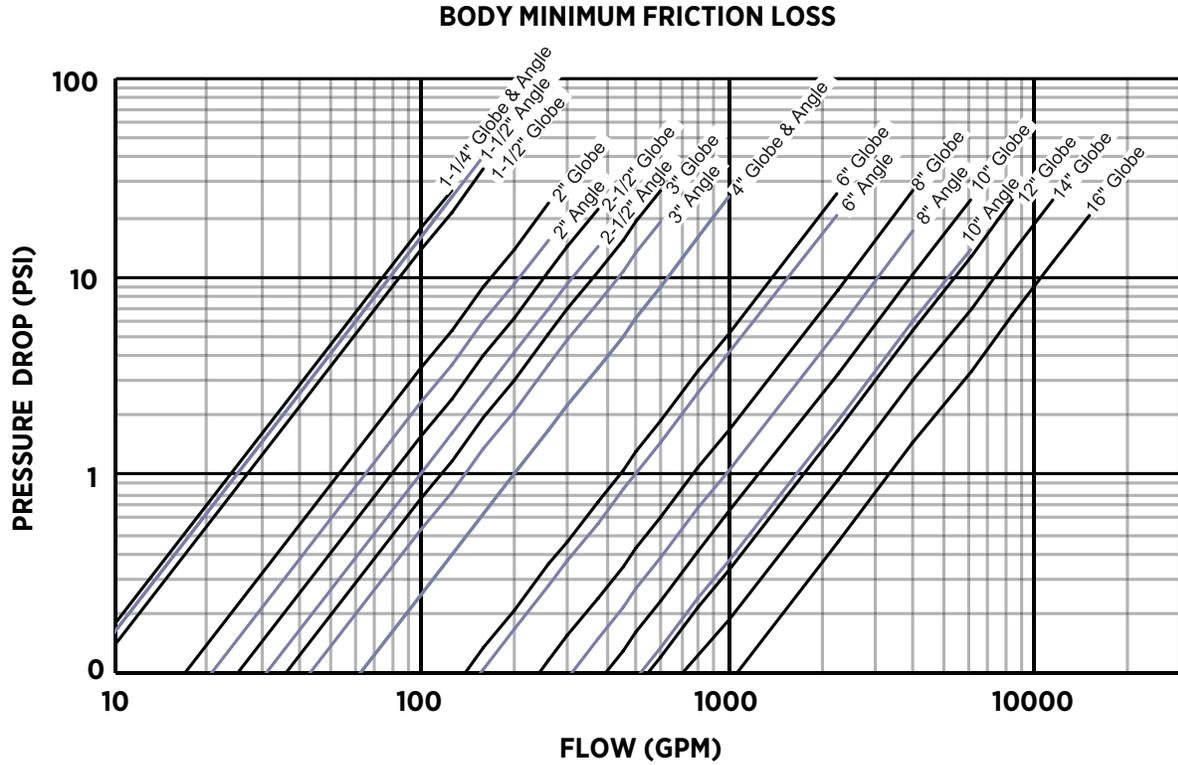
| ZURN WILKINS ZW200 SERIES ACV RUBBER REPAIR KITS | |
|---|------------------------|
| Rubber Repair Kit contains: diaphragm, stem o-rings, and disc (with spring discs for 4" and larger sizes) | |
| SIZE | REPAIR KIT PART NUMBER |
| 1-1/4" - 1-1/2" | RK114-112-ZW200R |
| 2" | RK2-ZW200R |
| 2-1/2" | RK212-ZW200R |
| 3" | RK3-ZW200R |
| 4" | RK4-ZW200R |
| 6" | RK6-ZW200R |
| 8" | RK8-ZW200R |
| 10" | RK10-ZW200R |
| 12" | RK12-ZW200R |
| 14" | RK14-ZW200R |
| 16" | RK16-ZW200R |

| ZURN WILKINS ZW200 SERIES ACV COMPLETE REPAIR KITS | |
|---|------------------------|
| Complete Repair Kit contains: spring and complete stem assembly (with spring discs for 4" and larger sizes) | |
| SIZE | REPAIR KIT PART NUMBER |
| 1-1/4" - 1-1/2" | RK114-112-ZW200C |
| 2" | RK2-ZW200C |
| 2-1/2" | RK212-ZW200C |
| 3" | RK3-ZW200C |
| 4" | RK4-ZW200C |
| 6" | RK6-ZW200C |
| 8" | RK8-ZW200C |
| 10" | RK10-ZW200C |
| 12" | RK12-ZW200C |
| 14" | RK14-ZW200C |
| 16" | RK16-ZW200C |

| ZURN WILKINS ZW200 SERIES ACV SEAT REPAIR KITS | |
|---|------------------------|
| Seat Repair Kit contains: seat and seat o-ring (with seat screws for 8" and larger sizes) | |
| SIZE | REPAIR KIT PART NUMBER |
| 1-1/4" - 1-1/2" | RK114-112-ZW200SK |
| 2" | RK2-ZW200SK |
| 2-1/2" | RK212-ZW200SK |
| 3" | RK3-ZW200SK |
| 4" | RK4-ZW200SK |
| 6" | RK6-ZW200SK |
| 8" | RK8-ZW200SK |
| 10" | RK10-ZW200SK |
| 12" | RK12-ZW200SK |
| 14" | RK14-ZW200SK |
| 16" | RK16-ZW200SK |

Flow Charts

(Based on normal flow through a wide open valve)



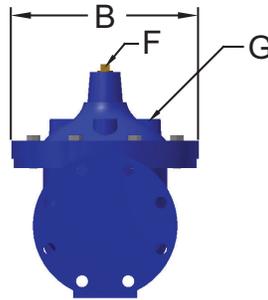
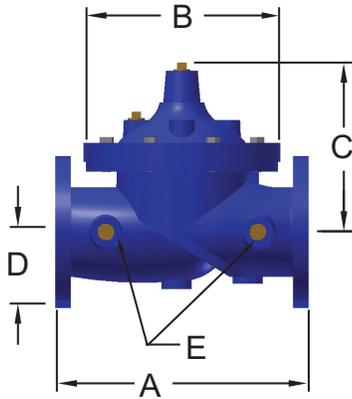
FLOW CHARACTERISTICS

| FULL PORT GLOBE AND ANGLE VALVE SIZE | INCHES (MM) | 1-1/4 (32) | 1-1/2 (40) | 2 (50) | 2-1/2 (65) | 3 (80) | 4 (100) | 6 (150) | 8 (200) | 10 (250) | 12 (300) | 14 (350) | 16 (400) |
|--------------------------------------|-------------------|------------|------------|--------|------------|---------|---------|----------|---------|----------|----------|----------|----------|
| | INCHES (MM) | | | 3 (80) | 4 (100) | 6 (150) | 8 (200) | 10 (250) | | | | | |
| Suggested Flow (GPM) | Max. Continuous | 93 | 125 | 210 | 300 | 460 | 800 | 1800 | 3100 | 4900 | 7000 | 8400 | 11000 |
| | Max Intermittent | 120 | 160 | 260 | 375 | 600 | 1000 | 2250 | 4000 | 6150 | 8700 | 10500 | 13800 |
| | Min. Continuous | 10 | 10 | 15 | 20 | 30 | 50 | 115 | 200 | 300 | 435 | 530 | 690 |
| Suggested Flow (Liters/sec) | Max. Continuous | 6 | 8 | 13 | 19 | 29 | 50 | 113 | 195 | 309 | 550 | 665 | 665 |
| | Max. Intermittent | 7.6 | 10 | 16.4 | 23 | 37 | 62 | 142 | 246 | 388 | 440 | 530 | 95 |
| | Min. Continuous | 0.6 | 0.6 | 0.9 | 1.3 | 1.9 | 3.2 | 7.2 | 13 | 19 | 28 | 33 | 43 |

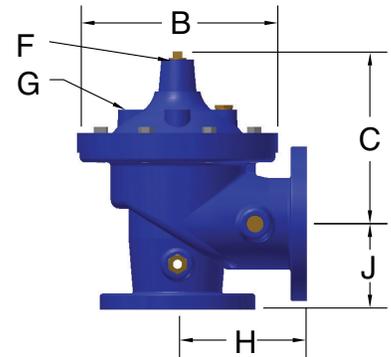
*Refer to zurn.com for updated information

Main Valve Dimensions

GLOBE BODY DIMENSIONS

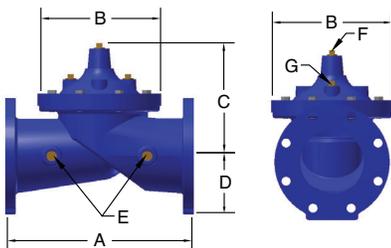


ANGLE BODY DIMENSIONS



| DIM | Full Port | VALVE SIZE INCHES (mm) | | | | | | | | | | | |
|-----|----------------------------|------------------------|------------|--------|------------|--------|----------|---------|---------|----------|----------|----------|----------|
| | | 1 1/4 (32) | 1 1/2 (38) | 2 (50) | 2 1/2 (65) | 3 (80) | 4 (100) | 6 (150) | 8 (200) | 10 (250) | 12 (300) | 14 (350) | 16 (400) |
| A | Threaded | 7 1/4 | 7 1/4 | 9 7/16 | | | | | | | | | |
| | Class 150 Flange | | 8 1/2 | 9 3/8 | 11 | 12 | 15 | 20 | 25 3/8 | 29 3/4 | 34 | 39 | 41 3/8 |
| | Class 300 Flange | | 9 | 10 | 11 5/8 | 13 1/4 | 15 5/8 | 21 | 26 7/16 | 31 1/8 | 35 1/2 | 40 1/2 | 43 1/2 |
| | Grooved | | 8 1/2 | 9 | 11 | 12 1/2 | 15 | 20 | 25 3/8 | 29 3/4 | | | |
| B | Diameter | 5 5/8 | 5 5/8 | 6 3/4 | 8 | 9 3/16 | 11 11/16 | 15 3/4 | 20 1/8 | 23 11/16 | 27 1/2 | 31 3/4 | 34 1/2 |
| C | Max. | 5 3/4 | 5 3/4 | 6 3/16 | 7 3/8 | 8 | 10 3/16 | 12 5/16 | 15 9/16 | 17 5/8 | 20 3/16 | 22 13/16 | 25 7/8 |
| D | Threaded/Grooved | 1 3/8 | 1 3/8 | 1 3/4 | 2 1/8 | 2 9/16 | 3 7/16 | 5 | 5 | 5 13/16 | 6 3/4 | 8 7/8 | 8 13/16 |
| | Class 150 Flange | | 2 1/2 | 3 | 3 1/2 | 3 3/4 | 4 1/2 | 5 1/2 | 6 3/4 | 8 | 9 1/2 | 10 1/2 | 11 3/4 |
| | Class 300 Flange | | 3 | 3 1/4 | 3 3/4 | 4 1/8 | 5 | 6 1/4 | 7 1/2 | 8 3/4 | 10 1/4 | 11 1/2 | 12 3/4 |
| E | NPT Body Tap | 3/8 | 3/8 | 3/8 | 1/2 | 1/2 | 3/4 | 3/4 | 1 | 1 | 1 | 1 | 1 |
| F | NPT Cvr. Plug Tap | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3/4 | 3/4 | 1 | 1 | 1 | 1 | 1 |
| G | NPT Cover Tap | 3/8 | 3/8 | 3/8 | 1/2 | 1/2 | 3/4 | 3/4 | 1 | 1 | 1 | 1 | 1 |
| H | Threaded | 3 1/4 | 3 1/4 | 4 3/4 | 5 1/2 | 6 1/4 | | | | | | | |
| | Class 150 Flange | | 4 | 4 3/4 | 5 1/2 | 6 | 7 1/2 | 10 | 12 3/4 | 15 | | | |
| | Class 300 Flange | | 4 1/4 | 5 | 6 | 6 7/16 | 8 | 10 1/2 | 13 1/4 | 15 9/16 | | | |
| | Grooved | | 4 7/16 | 4 3/4 | 5 1/2 | 6 | 7 1/2 | 10 | 12 3/4 | 15 | | | |
| J | Threaded | 2 | 2 | 3 1/4 | 4 | 4 1/2 | | | | | | | |
| | Class 150 Flange | | 4 | 3 1/4 | 4 | 4 | 5 | 6 | 8 | 8 5/8 | | | |
| | Class 300 Flange | | 4 1/4 | 3 1/2 | 4 5/16 | 4 7/16 | 5 1/3 | 6 1/2 | 8 1/2 | 9 5/16 | | | |
| | Grooved | | 3 3/16 | 3 1/4 | 4 | 4 1/4 | 5 | 6 | 8 | 8 5/8 | | | |
| | Valve Stem Internal Thread | 10-32 | 10-32 | 10-32 | 10-32 | 1/4-20 | 1/4-20 | 1/4-20 | 3/8-16 | 3/8-16 | 3/8-16 | 3/8-16 | 3/8-16 |
| | Stem Travel (in) | 7/16 | 7/16 | 3/4 | 7/8 | 1 | 1 3/16 | 1 3/4 | 2 3/8 | 2 13/16 | 3 7/16 | 3 13/16 | 4 5/16 |
| | Approx. Wt. (Lbs) | 22 | 26 | 36 | 55 | 70 | 130 | 240 | 440 | 720 | 820 | 1200 | 1550 |

REDUCED PORT BODY DIMENSIONS



| DIM | | VALVE SIZE INCHES (mm) | | | | |
|-----|------------------------------|------------------------|----------|----------|----------|-----------|
| | | 3" (80) | 4" (100) | 6" (150) | 8" (200) | 10" (250) |
| A | Class 150 Flange | 10 1/4 | 14 | 17 3/4 | 21 7/16 | 26 |
| | Class 300 Flange | 11 | 14 1/2 | 18 11/16 | 22 7/16 | 27 7/16 |
| B | Dia | 6 3/4 | 9 3/16 | 11 11/16 | 15 3/4 | 20 1/8 |
| C | Max | 6 3/8 | 8 7/16 | 12 5/16 | 13 1/4 | 16 3/4 |
| D | Class 150 Flange | 3 3/4 | 4 1/2 | 5 1/2 | 6 3/4 | 8 |
| | Class 300 Flange | 4 1/8 | 5 | 6 1/4 | 7 1/2 | 8 3/4 |
| E | NPT Body Tap | 3/8 | 1/2 | 3/4 | 3/4 | 1 |
| F | NPT Cvr. Plug Tap | 3/8 | 1/2 | 3/4 | 3/4 | 1 |
| G | NPT Cvr. Tap | 3/8 | 1/2 | 3/4 | 3/4 | 1 |
| | Valve Stem Internal Thread | 10-32 | 1/4-20 | 1/4-20 | 3/8-16 | 3/8-16 |
| | Stem Travel (in) | 3/4 | 1 | 1 1/5 | 1 3/4 | 2 3/8 |
| | Approx. Wt. (Lbs.) Class 150 | 50 | 90 | 160 | 280 | 480 |

Frequently Asked Questions

How do I size a Pilot Operated Pressure Reducing Automatic Control Valve?

- Determine the actual inlet pressure, the desired outlet pressure, and the maximum and minimum continuous flow rates. Using the Submittal Sheet, choose the size of valve that will satisfy the maximum and minimum continuous flow rates. Verify that the valve will not be in a potential cavitation zone and the desired pressure drop across the valve does not fall into a cavitation zone.
- If the pressure drop across a single valve results in cavitation, a second valve may need to be plumbed in series. Set each valve such that the pressure drop is equal for each valve.

How do I control water hammer or surging that is caused by my Automatic Control Valve?

- Water hammer and surging is caused by a rapidly closing and opening of a valve. This can be resolved with the use of Model SC1 speed controls. The closing speed control can be adjusted to prevent the rapid closure of the control valve, mitigating water hammer. The opening speed control can be adjusted to allow the control valve to open slowly, mitigating surging.

My flow rate is below the minimum continuous flow rate of the Automatic Control Valve. How do I handle this?

- Water flows under the minimum continuous flow rate can be handled by a direct acting pressure reducing valve (PRV) plumbed in parallel to the control valve (ACV). When installed in parallel with the ACV, the PRV is set to the desired static operating pressure required by the water system. The ACV is then set 5 psi below the setting of the PRV. This ensures that all low flows will flow through the PRV.

How do I adjust a Pressure Reducing Automatic Control Valve?

- Go to zurn.com to find instruction sheets for each valve model, which contain specific procedures and operating instructions.

What is the difference between Zurn Wilkins Fire Protection and non-fire Automatic Control Valves?

- The function and performance of the Zurn Wilkins fire protection and plumbing automatic control valves is the same. However, the fire protection code requires these valves to be free of any pilotry shut-offs that would render the system inoperable in the event of a fire. Zurn Wilkins fire protection ACVs carry additional UL and FM approvals, in addition to standard approvals (AWWA, NSF/ANSI 372).

Why would I choose an Altitude Valve instead of a Float Valve?

- The Zurn Wilkins altitude valve is used in reservoirs and closed top water tanks where it is not feasible to plumb the float pilot assembly. The valve has more customizable features and options to fit a broader range of applications.
- The Zurn Wilkins float valve is generally used in open top water tanks where it is feasible to plumb the float pilot assembly in close proximity to the valve (or use a valve mounted pilot). The float valve is an on/off non-modulating valve that is either open or closed.

If you still have questions, please contact Zurn Customer Care at 855-ONE-ZURN (855-663-9876) for assistance.

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



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