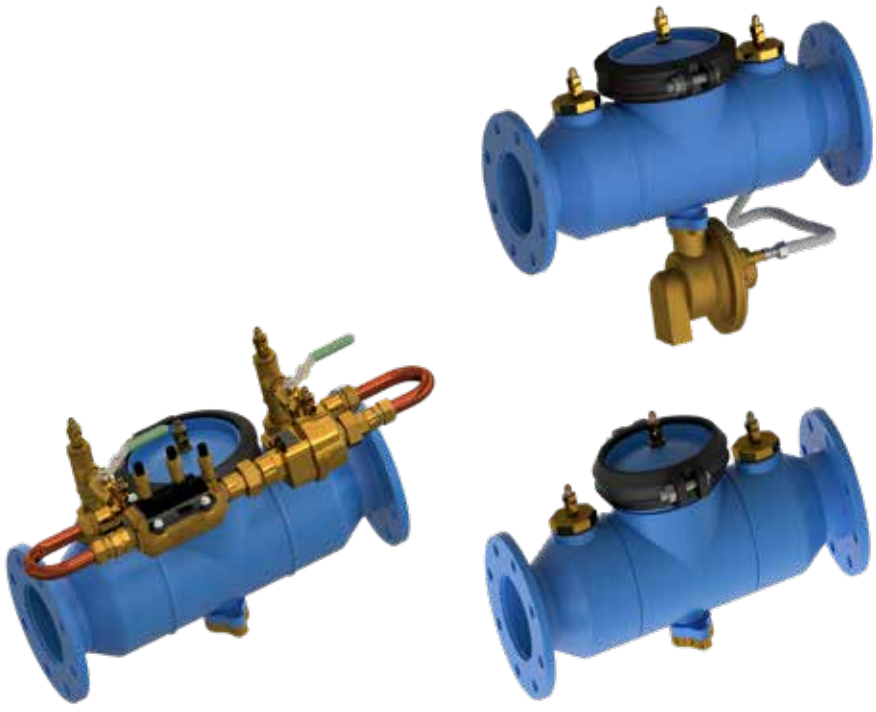
Engineered with you in mind

Stainless Steel Backflow Prevention

Smarter Solutions, Wider Selection

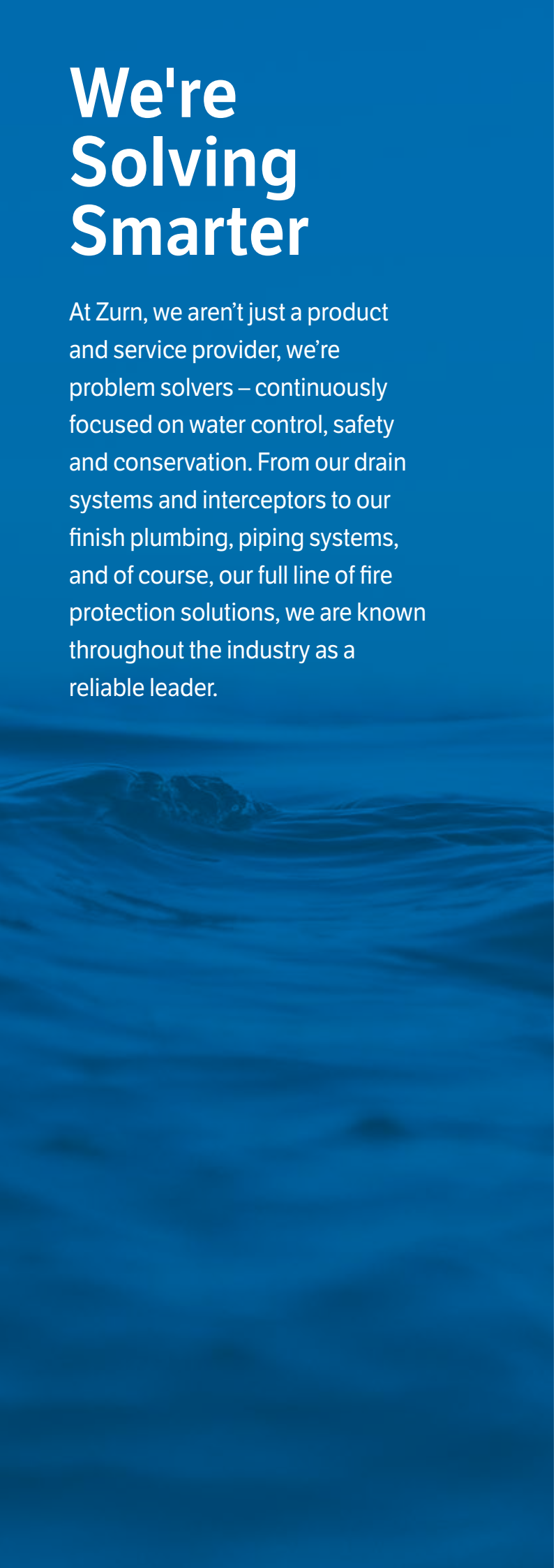


ZURN®

Engineered Water Solutions

We're Solving Smarter

At Zurn, we aren't just a product and service provider, we're problem solvers – continuously focused on water control, safety and conservation. From our drain systems and interceptors to our finish plumbing, piping systems, and of course, our full line of fire protection solutions, we are known throughout the industry as a reliable leader.



> "Zurn meets our expectations with its selection, level of quality, and timely delivery. I was able to find the valve configurations to complete my system. I appreciate the positive shutoff of the OS&Y gate valves. Not to mention, I didn't have to wait a week to get material."
>
> GARY BLACKMORE (USA)
> Backflow Specialist - Fire Safety First

OVERVIEW

The Wilkins Company was founded in America in 1906 by James Wilkins.

Following humble beginnings working out of a barn, the company grew, supplying plumbing fittings to the local markets.

This included their first backflow prevention device, which was released into the market in 1910.

James Wilkins and his dedicated team designed numerous backflow prevention devices, with a focus on quality and long term performance.

In 2000, Zurn Industries acquired the Wilkins company and then in 2007, Zurn Industries and its subsidiaries were bought out by Rexnord. Rexnord, with over 6,000 employees Globally and a distribution network covering over 100 countries, gave the corporate direction for the Zurn Wilkins products, especially their backflow prevention products.

The Wilkins brand of backflow prevention products have been in the American market for over 100 years and were introduced into the Australian market in the late 1980's.

The focus for Zurn Australia Pty Ltd is to pay homage to the Zurn Wilkins brand and to demonstrate integrity in everything we do.

We are pleased to introduce our new range of Stainless Steel backflow prevention devices and proudly pay homage to the Zurn Wilkins brand with a focus on Quality and Long Term Performance.

The new Stainless Steel range of backflow prevention devices has been developed with input from our most valuable asset, our customers. The one body is common for the different models from single checks to Reduced Pressure Zone Devices. The size range is from 65-250mm, with the added strength and weight reduction that only stainless steel can provide.
The stainless steel body has been powder coated to provide protection in coastal environments.

These new devices are to support our already strong position in the Australian market, with our full range of backflow prevention products.

Most of us take the quality of our drinking water for granted. When water is contaminated, it cost you your life.

Over the past 31 years, contaminated drinking water has been blamed for thousands of cases of illness. In addition, millions of dollars has been paid out to settle with victims sickened by backflow.

Generally, public water supplies are safe and clean. Contaminants infect municipal water when pipes are improperly installed or when a hose is connected to a non-potable water supply.

Not every incident results in illness but every incident poses a threat.

Principles of Backflow Prevention

In order to understand the concept of backflow prevention, there are some terms that must be identified and understood. Understanding the terminology is the key to knowing which backflow assembly is appropriate for a given installation. Most municipalities have a cross-connection control program and should be able to tell the consumer which backflow prevention assembly is appropriate. Backflow prevention assemblies are life safety products. If the wrong assembly is specified, the end result can be disastrous.

What is Backflow?

Backflow is the undesirable reversal of the flow of water or mixture of water and other liquids, gases, or other substances into the distribution pipes of the potable supply of water from any source or sources.

When does Backflow occur?

Backflow may be caused by conditions of gravity, vacuum or other pressure changes. There are two factors that contribute to reversal of flow in pipelines. One is backsiphonage and the other is backpressure.

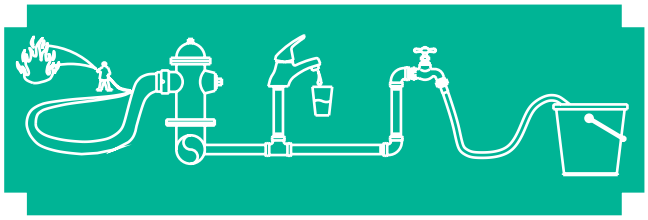
Backsiphonage conditions exist when there is a negative or sub-atmospheric pressure in the supply piping, allowing downstream substances to be siphoned into the potable water supply. Under-sized pipes, pipeline breaks, and high withdrawal rates can create vacuums, which contribute to the occurrence of back-siphonage.

Back pressure conditions exist when a pressure higher than the supply is created in the downstream piping, allowing downstream substances to be pushed into the potable water supply.

Backpressure can occur when higher pressures downstream are generated by pumps, thermal expansion, and elevation.

What is a cross-connection?

The term cross-connection refers to any unprotected actual or potential connection or structural arrangement between a public or consumer's potable water system and any other source or system through which it is possible to introduce into any part of the potable water system any used water, industrial fluid, gas or substance other than the intended potable water with which the system supplied.



By-pass arrangements, jumper connections, removable sections, swivel or change-over devices and other temporary or permanent devices through which or because of which backflow can or may occur are considered to be cross-connections.

It is evident that we cannot eliminate either the occurrence of backflow nor can we prevent cross-connections from being created. We must therefore provide a means of protecting drinking water systems from the hazards of backflow occurrences through cross-connections.

Principles of Backflow Prevention

Assemblies vs. Devices

Mechanical backflow prevention devices and assemblies offer the best protection against cross-connection hazards. Backflow prevention devices prevent backflow by stopping the reversal of flow, are not testable once installed because they do not have inlet and outlet shut-off valves or test cocks. Backflow prevention assemblies include an inlet and outlet shut-off valve and test cocks to facilitate testing of the assembly while it is in its functional in-line position. Furthermore, backflow preventers may be installed at the source of potential contamination or on the water service line itself.

Standards, Approvals, and Listings

Approval agencies, representing many diverse geographical areas and levels of government, have established performance criteria regarding the function, manufacturing, installation, testing and maintenance of backflow prevention devices and assemblies. Wilkins participates in the formation and implementation of these standards to the greatest degree possible.

The overall objective of the performance criteria is to ensure the sanctity of drinking water; however, each standard specifies different requirements relating to mechanical function, material requirements and testing for backflow preventers.

It is the task of backflow prevention manufacturers to produce a single product within a product category that complies with all applicable standards and the acceptance of such products are driven by the state, county and even the local city.

Selecting a Backflow Preventer

What type of backflow preventer should be used? Backflow prevention devices and assemblies include Single & Dual Check Valves, Double Check Valve Assemblies and Reduced Pressure Principle Backflow Assemblies. The proper selection of backflow preventer is crucial to ensure that the device works properly and is providing adequate protection for the specific application. It must be stressed that these devices are not all equally acceptable as protection against all types of hazards and other factors must be taken into account with each application. In general, there are four elements to consider when designing your backflow prevention program: system characteristics, degree of hazard, type of application and type of installation.

System Characteristics

Each backflow preventer is designed to handle a specific group of system characteristics. System characteristics include the hydraulic requirements of the specific backflow prevention design. Factors such as the need for continuous pressure versus noncontinuous pressure, back-pressure versus back-siphonage and flow-requirements versus velocity must be specified to determine the type of device to be used.

Existing conditions of pressure loss must be taken into account prior to the installation of a backflow preventer. All plumbing systems experience pressure loss. Pressure loss begins with the friction of the water against the walls of the pipe and increases with each additional fitting added to the system. Many of the fittings and components in a plumbing system can be identified as fixed orifice items, such as pipes, fittings, gate valves and ball valves. The pressure loss for fixed orifice items can be identified as a constant value and is characteristic of each type and size of valve. Once this value is established for a particular valve, the pressure loss through that valve or fitting can be calculated by simply knowing the specific gravity of the fluid running through the pipe and the flow rate (in litres per minute).

Elevation in the plumbing system is also a very large factor. Approximately 7 kPa for every 710mm of elevation can amount to almost a 48kPa loss in just a two-story building. A high-rise building with an elaborate fire sprinkler system cannot tolerate large losses in supply pressure and is therefore highly concerned with the effects of elevation in the supply system.

Degree of Hazard

The ultimate purpose in control and prevention of backflow is to protect the public health. Should a backflow condition occur, the degree of hazard must be understood in order to provide the proper backflow preventer to stop the hazard on hand. The degree of protection is determined based on the degree of hazard. A low hazard application is when potential backflow can pollute the drinking water. Pollution is defined as materials that can cause undesirable effects to the water, such as discoloration, smell or taste, but will not cause sickness or death. A medium or high hazard application is one where the potential backflow can contaminate the water supply. Contamination is defined as any impairment to the water quality such that contact with this water can result in illness or death.

Type of Application

The type of application and industry, such as fire protection, irrigation and plumbing, each have particular requirements. Fire sprinkler systems may require detector by-passes or grooved end gate connections. In certain critical applications, such as hospitals, resort hotels or industrial applications, water must be continually supplied. This requires either multiple connections or manifold assemblies.

Each application is also unique in regards to flow requirements. Plumbing and waterworks require consistent flow of water. Irrigation requires flow 2% of the time and the remaining 98% of the time is in a static condition. Fire protection must stand ready for action with 100% static water pressure. Each condition can pose a unique challenge for the backflow preventer.

Type of Installation

Installations range from indoor to outdoor and “below grade” or pit installations. Where space is an issue, systems can require a vertical installation. Indoor installations must address the issue of discharge. Of the five standard types of backflow preventers, three spill water, two at start-up and one as a basic function of the assembly. Outdoor installations face the potential of vandalism, soil erosion and in some climates, freezing temperatures. An outdoor installation may typically require some type of covering.

Accessibility is often the most overlooked factor in backflow installations. In general, accessibility is required for any testing, maintenance or repair. Height requirements for backflow preventers are very specific:

Double Check Assembly & Reduced Pressure Principle Assembly should be installed between 300-760mm above the ground. If installation is in a pit or vault, provide ample drainage to ensure the backflow preventer does not become submerged.

Side clearance requirement from the wall of Double Check and Reduced Pressure Principle Assemblies 15mm - 80mm) are 610mm from side test cocks, 305mm from top mounted test cocks, with 610mm access from one side. For sizes 100mm and above, these requirements are doubled.

The weight of the checks must also be considered, especially if you are looking at a vertical installation. The check assembly weight for a 150mm to 250mm device may require lifting assistance.

Testable Backflow Prevention Assemblies vs. Non-Testable Backflow Devices

Typically, testable backflow prevention assemblies are required for use at a service connection. These “Testable” assemblies are used for containment of the entire consumer’s potable system away from the public potable water system. Since their proper function is imperative in order to prevent contamination of the public potable water supply, a method of testing is necessary.

Non-testable backflow devices are usually used for internal protection, within the consumer’s potable system, whereby they are isolating an internal cross-connection from the remainder of the consumer’s potable system. If these types of valves fail, protection of the public potable supply is still facilitated by the “testable” assembly at the service connection. Check the individual valve Installation Instruction on www.lwgzurn.com for correct testing procedures.

TYPES OF BACKFLOW DEVICES

Dual Check Valve Assembly & Dual Check With Atmospheric Port

Dual Checks are designed for use in low hazard applications where a fully approved, testable backflow preventer is not required. Check with the local authority having jurisdiction for acceptance.

Double Check Valve Assembly (DCV)

A Double Check Valve Assembly is an assembly containing two independently acting approved check valves, four resilient seated test cocks, and two resilient-seated isolation valves. This assembly is intended for use in both continuous and non-continuous pressure applications, in both back-siphonage and back-pressure conditions. A Double Check Valve is intended to provide protection in low or medium hazard situations.

Double Detector Check Assembly (DDCA)

A Double Check Detector Assembly is a specially designed assembly composed of a line-sized approved double check valve assembly, with a specific by-pass water meter, and a meter-sized approved double check valve assembly. This assembly is intended for use in both continuous and non-continuous pressure applications, in backsiphonage and back-pressure conditions. The Double Check Detector Assembly is intended to provide protection in fire service situations only.

Reduced Pressure Principle Assembly (RP)

A Reduced Pressure Principle Assembly is an assembly containing two independently acting approved check valves together with a hydraulically operated, mechanically independent differential pressure relief valve located between the two check valves. This assembly is intended for use in continuous and non-continuous pressure applications, in backsiphonage and backpressure conditions. The Reduced Pressure Principle Assembly is intended to provide protection in low and high hazard situations.

READING PERFORMANCE CURVES

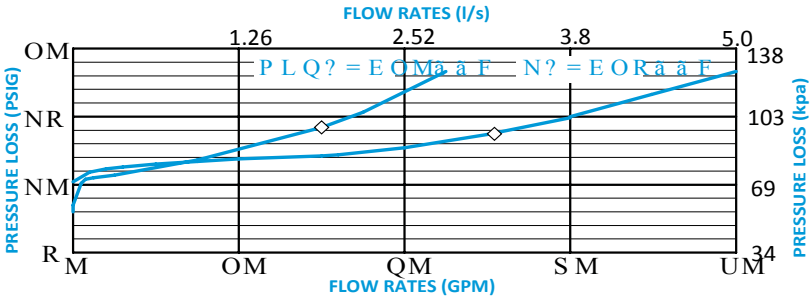
As mentioned earlier, many fittings in a plumbing system, such as pipes and gate valves, are considered fixed orifice items, whereby pressure loss can be identified as a constant value and is characteristic of each type and size of valve. In contrast, backflow preventers, by design, include check valves that are spring-loaded or force-loaded to the closed position. The orifice of a backflow preventer is constantly varying. As flow varies through, it pushes the spring-loaded check open and closed. It is not possible to have a fixed value representing the flow and pressure loss. The flow characteristics of a backflow preventer can only be defined by a “Performance Curve,” depicting the relationship of pressure drop and flow rate throughout its full range of operation.

The full range of operation is referred to as the “usable range.” Flow rates beyond the usable range will have destructive velocities to the piping system or excessive pressure loss. The basis for flow capacity and pressure loss in a backflow prevention assembly begins at zero LPM and goes up to the industry standard required maximum flow capacity. This maximum rate is known as “rated flow.” For any flow rate from zero LPM up to the rated flow, there is an established maximum allowable pressure loss. Failure to meet the required flow rates or exceeding the maximum pressure drop at any point up to the rated flow would prevent the assembly from being approved.

All Wilkins Backflow Prevention Assembly performance curves are constructed with the “flow rate” in gallons per minute (GPM) or litres per second (l/s) on the horizontal axis and the “pressure loss” in pounds per square inch (psi) or kilopascals (kPa) on the vertical axis. Additionally, a diamond will be placed on the curve to indicate the maximum rated flow for each given assembly, according to its pipe size.

Example: Refer to the chart below. Find the pressure loss exhibited while the valve is flowing at 2.52 LPS.
Solution: Follow the horizontal axis out to 2.52 LPS. Next, move downward until the 2.52 LPS axis intersects the 1” or 25mm curve. At this juncture, moving to the right, read the pressure loss from the vertical axis that corresponds with the intersection of the 2.52 LPS axis and the 1”/25mm curve. The pressure loss at 2.52 LPS is taken to be 86.9 kPa. Also, from the curve, we see that the diamond is at the value of 3.16 LPM. Therefore, the maximum rated flow of a 1”/25mm example valve is 3.16 LPS.

EXAMPLE VALVE



Value Proposition

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

CONSULTANT / ENGINEER

- Products comply with all standards and specifications
- Products designed for installation in tight spaces
- CAD and BIM drawings available on zurn.com.au
- Low-pressure drop
- Complete line of backflow preventers for water distribution systems
- Products allow for water conservation system design

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

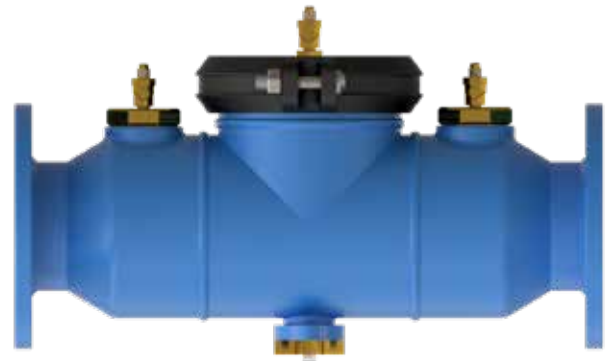
BUILDING OWNER

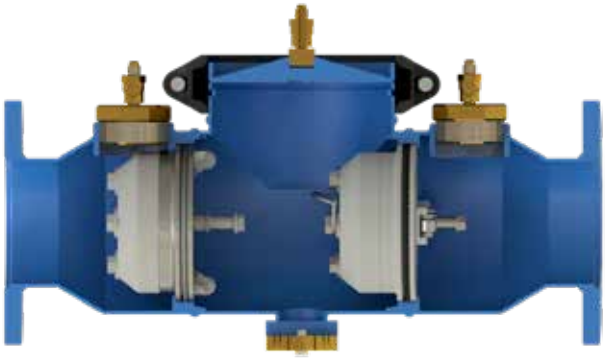
- Superior low life-cycle cost
- Ease of repairability and low-cost repair kits
- Superior technical support
- Theft deterrent product options
- Products allow for water conservation system design

MODEL 350 SPD

TESTABLE DOUBLE CHECK VALVE - TABLE D

Dimensional Data (mm) are Subject to Manufacturing Tolerances and Change Without Notice





ENGINEERING SPECIFICATION - MODEL 350 SPD

- Designed for installation on water lines in fire protection systems
- Protects against both back siphonage and back pressure of polluted water into the potable water supply
- Assembly provides protection where a potential health hazard does exist
- Installation should be governed by local codes
- Suitable clearance should be allowed for servicing
- The device does not need to be removed from the line for maintenance
- Roll grooved options available

PRODUCT INFORMATION

MODEL 350 SPD FEAUTURES	
Max. Working Water Pressure	1200 kPa
Max. Working Temperature	60 Celsius
Hydrostatic Test Pressure	2400 kPa

MODEL 350 SPD MATERIALS	
Main Valve Body	Stainless Steel
Access Cover	Stainless Steel
Coating	Epoxy
Internals	Stainless Steel and NORYL
Fasteners	Stainless Steel
Elastomers	EPDM and Buna Nitrile
Springs	Stainless Steel

DIMENSIONS

DIMENSIONS IN MM									
SIZE	A	B	C	D	E	BOLT SIZE	BOLT LENGTH	BOLT/NUT	WEIGHT (kg)
65	902	509	290	139	150	M16	8x40mm	4x65mm	15
80	922	509	310	187	158	M16	8x40mm	4x65mm	15
100	972	519	350	199	176	M16	8x40mm	4x65mm	16
150	1237	644	480	264	212	M16	8x50mm	4x65mm	29

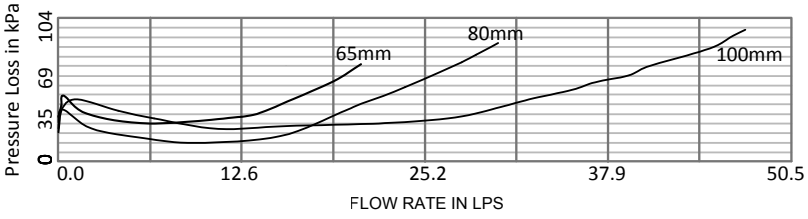
STANDARDS COMPLIANCE

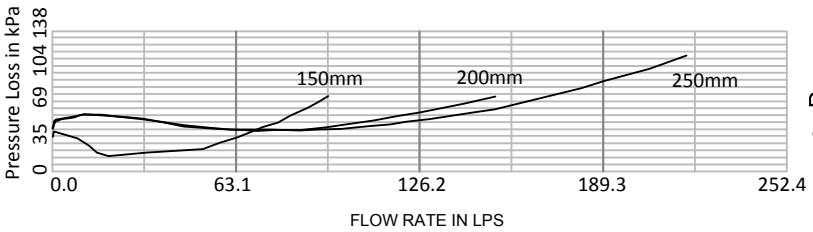
- Australian Watermark (AS/NZS 2845.1) Approved Lic. 1379
- Type Tested AS/NZS 4020 Lic. 20111

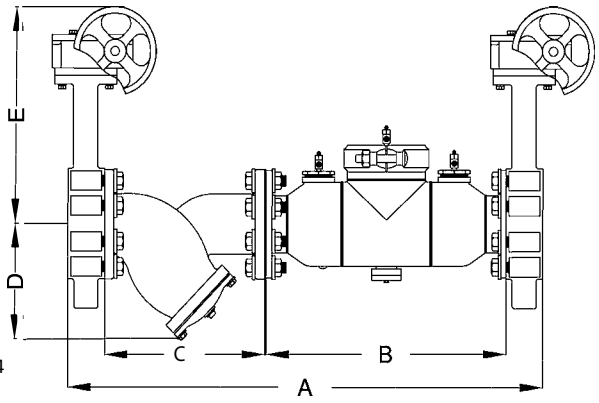
WATERMARK AS/NZS 2845.1 LIC. 1379

TYPE TESTED AS/NZS 4020 LIC. 20111

FLOW CHARACTERISTICS



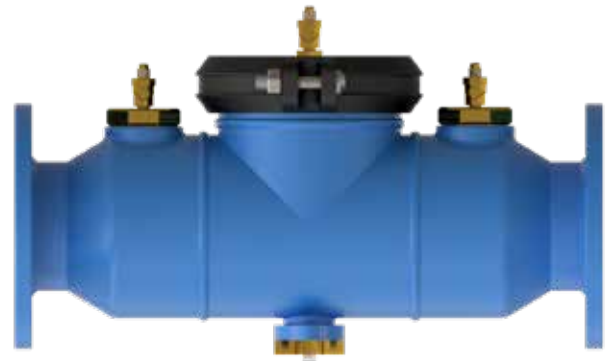


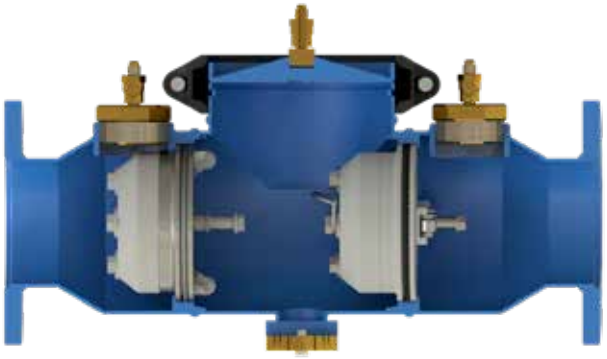


MODEL 350 SPE

TESTABLE DOUBLE CHECK VALVE - TABLE E

Dimensional Data (mm) are Subject to Manufacturing Tolerances and Change Without Notice





ENGINEERING SPECIFICATION - MODEL 350 SPE

- Designed for installation on water lines in fire protection systems
- Protects against both back siphonage and back pressure of polluted water into the potable water supply
- Assembly provides protection where a potential health hazard does exist
- Installation should be governed by local codes
- Suitable clearance should be allowed for servicing
- The device does not need to be removed from the line for maintenance
- Roll grooved options available

PRODUCT INFORMATION

MODEL 350 SPE FEAUTURES	
Max. Working Water Pressure	1200 kPa
Max. Working Temperature	60 Celsius
Hydrostatic Test Pressure	2400 kPa

MODEL 350 SPE MATERIALS	
Main Valve Body	Stainless Steel
Access Cover	Stainless Steel
Coating	Epoxy
Internals	Stainless Steel and NORYL
Fasteners	Stainless Steel
Elastomers	EPDM and Buna Nitrile
Springs	Stainless Steel

DIMENSIONS

DIMENSIONS IN MM									
SIZE	A	B	C	D	E	BOLT SIZE	BOLT LENGTH	BOLT/NUT	WEIGHT (kg)
65	902	509	290	139	150	M16	8x40mm	4x65mm	15
80	922	509	310	187	158	M16	8x40mm	4x65mm	15
100	972	519	350	199	176	M16	16x40mm	8x65mm	16
150	1237	644	480	264	212	M16	16x50mm	8x65mm	29
200	1581	868	600	311	235	M16	16x50mm	8x70mm	80
250	1711	868	730	385	265	M20	16x50mm	8x70mm	80

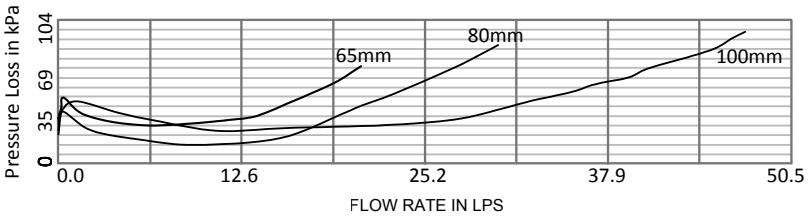
STANDARDS COMPLIANCE

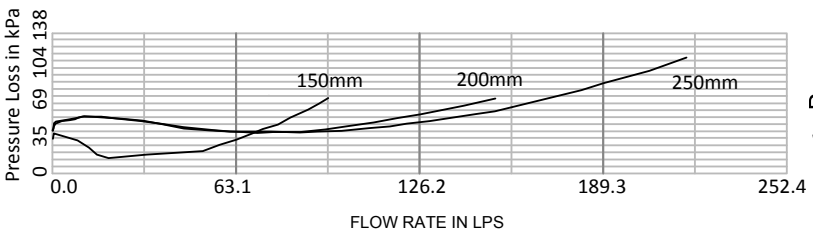
- Australian Watermark (AS/NZS 2845.1) Approved Lic. 1379
- Type Tested AS/NZS 4020 Lic. 20111

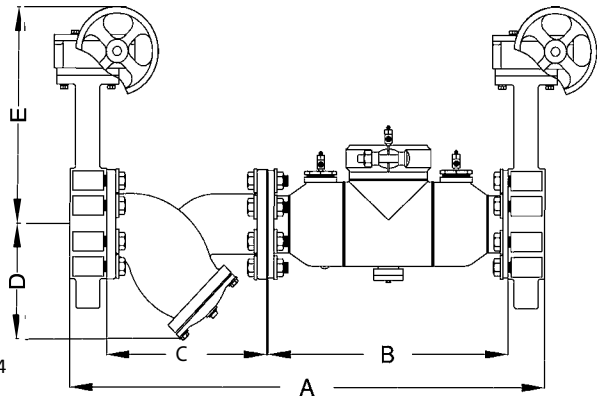
WATERMARK AS/NZS 2845.1 LIC. 1379

TYPE TESTED AS/NZS 4020 LIC. 20111

FLOW CHARACTERISTICS







MODEL 350 SPDDC

TESTABLE DOUBLE DETECTOR VALVE WITH BYPASS - TABLE D

Dimensional Data (mm) are Subject to Manufacturing Tolerances and Change Without Notice

ENGINEERING SPECIFICATION - MODEL 350 SPDDC

- Designed for installation on water lines in fire protection systems
- Protects against both back siphonage and back pressure of polluted water into the potable water supply
- Assembly provides protection where a potential health hazard does exist
- Installation should be governed by local codes
- Suitable clearance should be allowed for servicing
- The device does not need to be removed from the line for maintenance
- Roll grooved options available
- Bypass sizes 20mm, 25mm, 32mm and 40mm

PRODUCT INFORMATION

MODEL 350 SPDDC FEAUTURES	
Max. Working Water Pressure	1200 kPa
Max. Working Temperature	60 Celsius
Hydrostatic Test Pressure	2400 kPa

MODEL 350 SPDDC MATERIALS	
Main Valve Body	Stainless Steel
Access Cover	Stainless Steel
Coating	Epoxy
Internals	Stainless Steel and NORYL
Fasteners	Stainless Steel
Elastomers	EPDM and Buna Nitrile
Springs	Stainless Steel

DIMENSIONS

DIMENSIONS IN MM									
SIZE	A	B	C	D	E	BOLT SIZE	BOLT LENGTH	BOLT/NUT	WEIGHT (kg)
65	902	509	290	139	150	M16	8x40mm	4x65mm	15
80	922	509	310	187	158	M16	8x40mm	4x65mm	15
100	972	519	350	199	176	M16	8x40mm	4x65mm	16
150	1237	644	480	264	212	M16	8x50mm	4x65mm	29

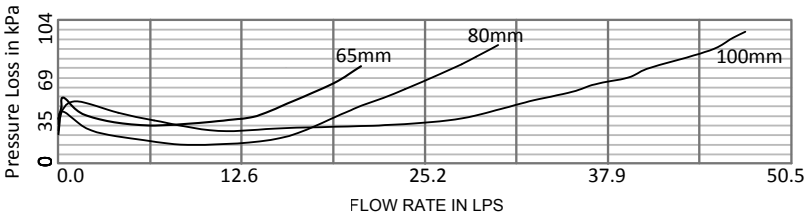
STANDARDS COMPLIANCE

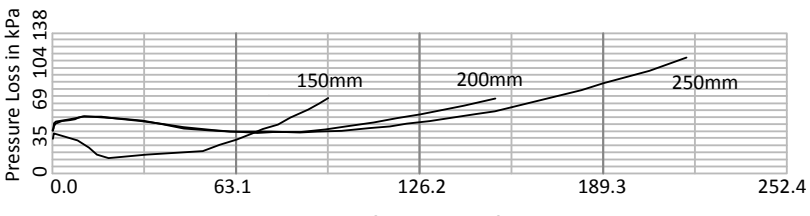
- Australian Watermark (AS/NZS 2845.1) Approved Lic. 1379
- Type Tested AS/NZS 4020 Lic. 20111

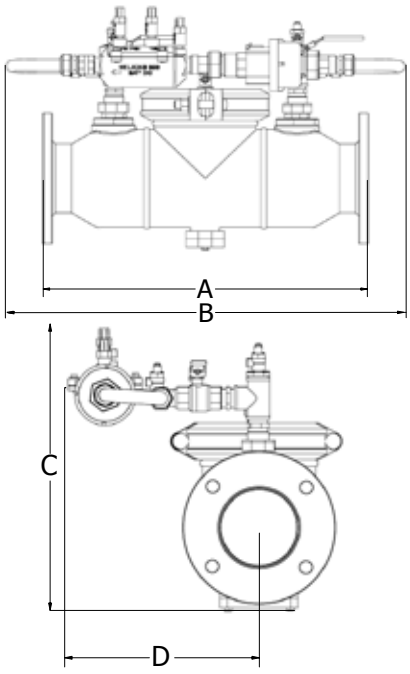
WATERMARK AS/NZS 2845.1 LIC. 1379

TYPE TESTED AS/NZS 4020 LIC. 20111

FLOW CHARACTERISTICS







For more information visit **ZURN.COM.AU** or contact the experts on **1300 00 ZURN**

MODEL 350 SPEDC

TESTABLE DOUBLE DETECTOR VALVE WITH BYPASS - TABLE E

Dimensional Data (mm) are Subject to Manufacturing Tolerances and Change Without Notice

ENGINEERING SPECIFICATION - MODEL 350 SPEDC

- Designed for installation on water lines in fire protection systems
- Protects against both back siphonage and back pressure of polluted water into the potable water supply
- Assembly provides protection where a potential health hazard does exist
- Installation should be governed by local codes
- Suitable clearance should be allowed for servicing
- The device does not need to be removed from the line for maintenance
- Roll grooved options available
- Bypass sizes 20mm, 25mm, 32mm and 40mm

PRODUCT INFORMATION

MODEL 350 SPEDC FEAUTURES	
Max. Working Water Pressure	1200 kPa
Max. Working Temperature	60 Celsius
Hydrostatic Test Pressure	2400 kPa

MODEL 350 SPEDC MATERIALS	
Main Valve Body	Stainless Steel
Access Cover	Stainless Steel
Coating	Epoxy
Internals	Stainless Steel and NORYL
Fasteners	Stainless Steel
Elastomers	EPDM and Buna Nitrile
Springs	Stainless Steel

DIMENSIONS

DIMENSIONS IN MM									
SIZE	A	B	C	D	E	BOLT SIZE	BOLT LENGTH	BOLT/NUT	WEIGHT (kg)
65	902	509	290	139	150	M16	8x40mm	4x65mm	15
80	922	509	310	187	158	M16	8x40mm	4x65mm	15
100	972	519	350	199	176	M16	16x40mm	8x65mm	16
150	1237	644	480	264	212	M16	16x50mm	8x65mm	29
200	1581	868	600	311	235	M16	16x50mm	8x70mm	80
250	1711	868	730	385	265	M20	16x50mm	8x70mm	80

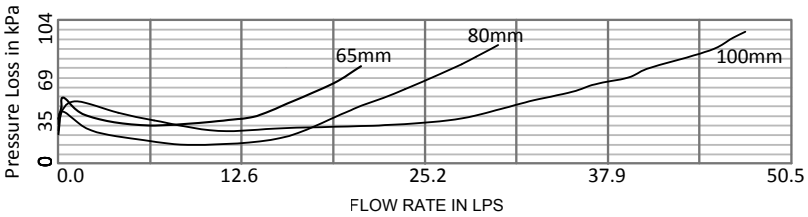
STANDARDS COMPLIANCE

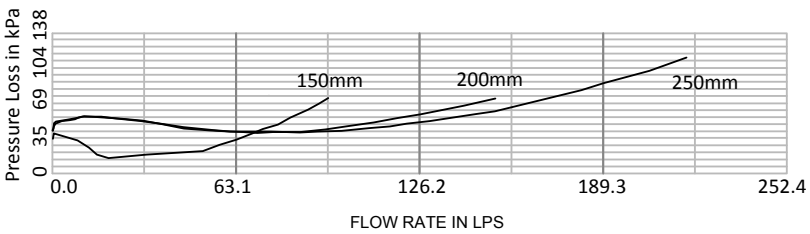
- Australian Watermark (AS/NZS 2845.1) Approved Lic. 1379
- Type Tested AS/NZS 4020 Lic. 20111

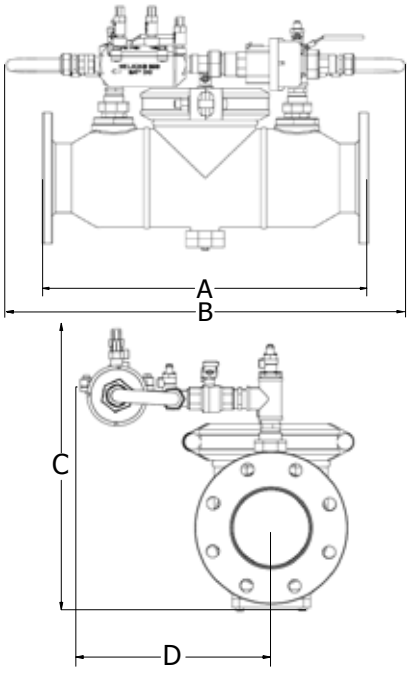
WATERMARK AS/NZS 2845.1 LIC. 1379

TYPE TESTED AS/NZS 4020 LIC. 20111

FLOW CHARACTERISTICS





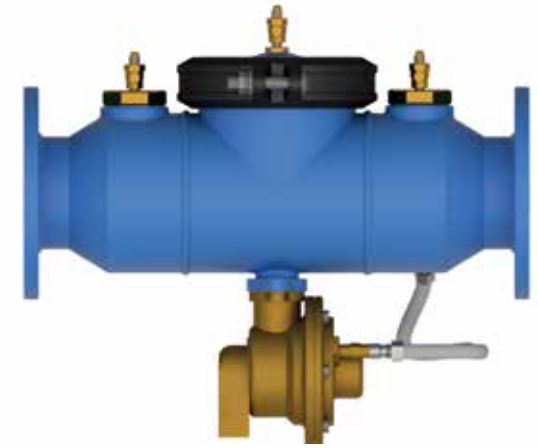


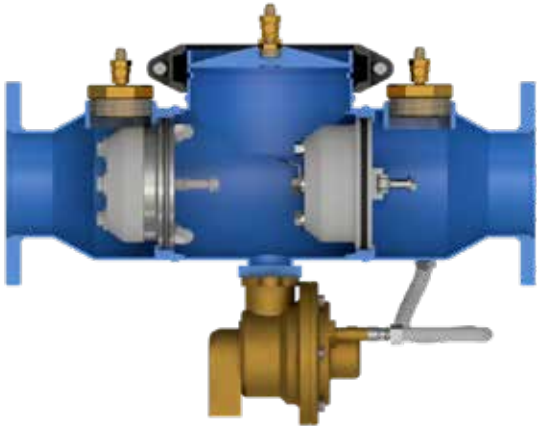
For more information visit **ZURN.COM.AU** or contact the experts on **1300 00 ZURN**

MODEL 375 SPD

TESTABLE REDUCED PRESSURE VALVE - TABLE D

Dimensional Data (mm) are Subject to Manufacturing Tolerances and Change Without Notice





ENGINEERING SPECIFICATION - MODEL 375 SPD

- Designed for installation on water lines in fire protection systems
- Protects against both back siphonage and back pressure of polluted water into the potable water supply
- Assembly provides protection where a potential health hazard does exist
- Installation should be governed by local codes
- Suitable clearance should be allowed for servicing
- The device does not need to be removed from the line for maintenance

PRODUCT INFORMATION

MODEL 375 SPD FEAUTURES	
Max. Working Water Pressure	1200 kPa
Max. Working Temperature	60 Celsius
Hydrostatic Test Pressure	2400 kPa

MODEL 375 SPD MATERIALS	
Main Valve Body	Stainless Steel
Access Cover	Stainless Steel
Coating	Epoxy
Internals	Stainless Steel and NORYL
Fasteners	Stainless Steel
Elastomers	EPDM and Buna Nitrile
Springs	Stainless Steel

DIMENSIONS

DIMENSIONS IN MM									
SIZE	A	B	C	D	E	BOLT SIZE	BOLT LENGTH	BOLT/NUT	WEIGHT (kg)
65	902	509	290	139	150	M16	8x40mm	4x65mm	15
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100	972	519	350	199	176	M16	8x40mm	4x65mm	16
150	1237	644	480	264	212	M20	8x50mm	4x65mm	29

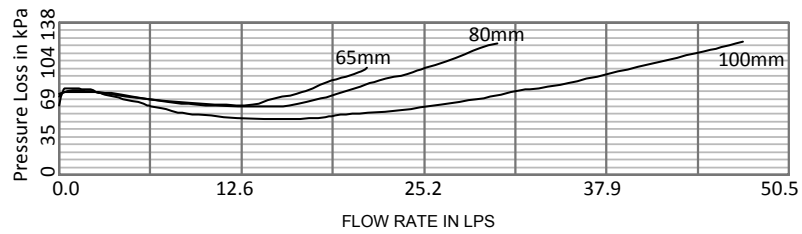
STANDARDS COMPLIANCE

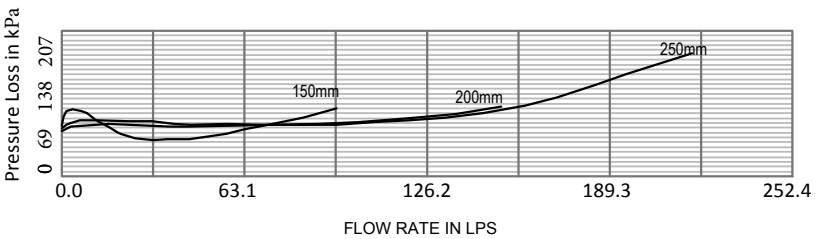
- Australian Watermark (AS/NZS 2845.1) Approved Lic. 1379
- Type Tested AS/NZS 4020 Lic. 20111

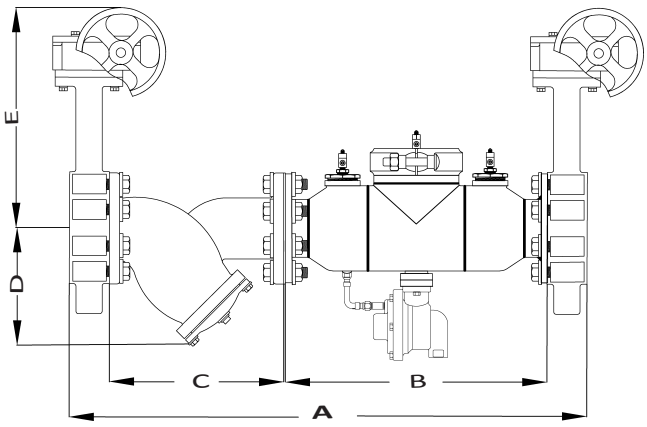
WATERMARK AS/NZS 2845.1 LIC. 1379

TYPE TESTED AS/NZS 4020 LIC. 20111

FLOW CHARACTERISTICS



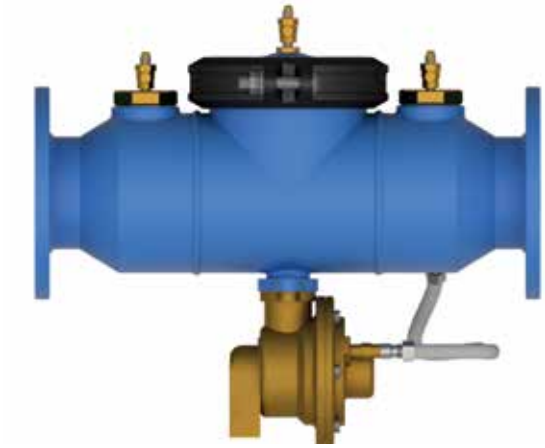


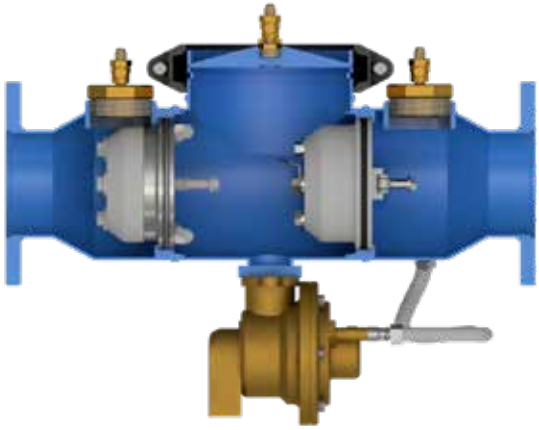


MODEL 375 SPE

TESTABLE REDUCED PRESSURE VALVE - TABLE E

Dimensional Data (mm) are Subject to Manufacturing Tolerances and Change Without Notice





ENGINEERING SPECIFICATION - MODEL 375 SPE

- Designed for installation on water lines in fire protection systems
- Protects against both back siphonage and back pressure of polluted water into the potable water supply
- Assembly provides protection where a potential health hazard does exist
- Installation should be governed by local codes
- Suitable clearance should be allowed for servicing
- The device does not need to be removed from the line for maintenance

PRODUCT INFORMATION

MODEL 375 SPE FEAUTURES	
Max. Working Water Pressure	1200 kPa
Max. Working Temperature	60 Celsius
Hydrostatic Test Pressure	2400 kPa

MODEL 375 SPE MATERIALS	
Main Valve Body	Stainless Steel
Access Cover	Stainless Steel
Coating	Epoxy
Internals	Stainless Steel and NORYL
Fasteners	Stainless Steel
Elastomers	EPDM and Buna Nitrile
Springs	Stainless Steel

DIMENSIONS

DIMENSIONS IN MM									
SIZE	A	B	C	D	E	BOLT SIZE	BOLT LENGTH	BOLT/NUT	WEIGHT (kg)
65	902	509	290	139	150	M16	8x40mm	4x65mm	15
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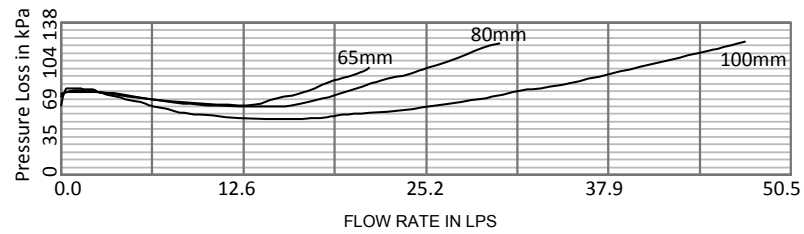
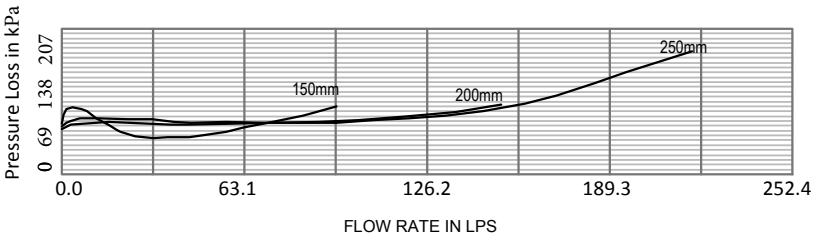
- Type Tested AS/NZS 4020 Lic. 20111

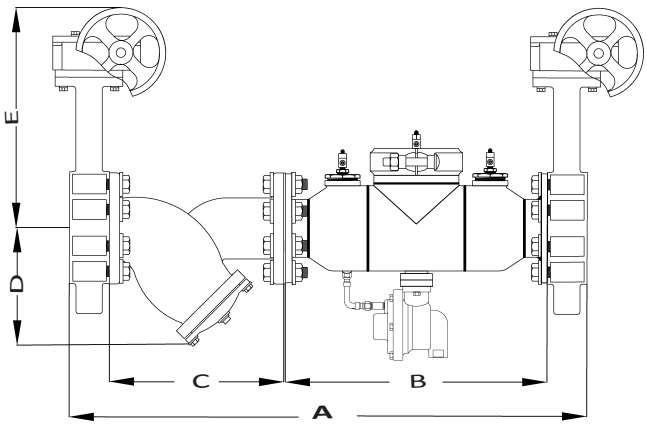
WATERMARK AS/NZS 2845.1 LIC. 1379

TYPE TESTED AS/NZS 4020 LIC. 20111

FLOW CHARACTERISTICS







Terms & Conditions | Warranty

General Terms & Conditions of Sale - Backflow

PRICE AND TERMS OF PAYMENT
Terms are net, payable 30 days from invoice. All pricing in AUD and subject to GST. Zurn Australia reserves the right to apply a freight charge where the minimum order value of $300 is not met. All orders are subject to credit approval by the Zurn Australia Accounts Department prior to the acceptance of an order. Orders may be refused, delivery may be withheld, or shipment stopped in transit without any liability on Zurn Australia's part at Zurn Australia's sole discretion based upon buyer's credit worthiness as determined by Zurn Australia.

FREIGHT
All sales are F.O.B. seller's location. Zurn Australia will allow full freight allowance when the following order condition is met: 1) any combination of product excluding Flo-Thru Drainage Product with a minimum spend of $300. This full freight allowance applies when the shipment is within Australia and has a single destination of a buyer's standard address or job location. Routing of shipment shall be determined at the sole direction of Zurn Australia. Shipping dates are estimates and time of delivery shall not be of the essence of this sale contract. Under no circumstances will the Seller have any responsibility on account of any delays in manufacture, transportation, or otherwise.

NOTE: Zurn Australia Linear Drainage range shall be defined as an oversized and/or overweight product and Zurn Australia's standard terms do not apply. Please contact our customer service department for guidance on shipping charges.

These charges and restrictions apply in addition to Zurn Australia standard terms and conditions for sale unless otherwise agreed upon by the parties

ILLUSTRATIONS OF TYPICAL INSTALLATIONS
The typical installations for various products found in each product section are intended to illustrate the products and potential options for the use of these products. Under no circumstances are they to be construed as recommended installation procedures. Consult local codes and project specifications for proper installation instructions.

RETURNED GOODS
Standard catalogued material may be returned only with an R.A (Return Authority) number issued by Zurn Australia. Product must be returned within 60 days. All returns after 60 days are subject to the discretion of the National Sales Manager. Returned goods are subject to a minimum $50 or 25% (whichever is greater) restocking charge of total saleable material returned. Transportation charges are the responsibility of the Buyer. Credit allowance will be in the form of account credit. No credit will be allowed for parts unless originally ordered and invoiced as parts. No credit will be allowed for discontinued or made-to-order items. Items that have been specially made are not subject to return or cancellation except by special negotiation. No credit is allowed for Linear Drainage products that have been cut.

SHORTAGE/DAMAGE CLAIMS
Notification of material shortages or incorrect filling of orders must be made to Zurn Australia within 10 days of receipt. No claims over three months old will be honoured. Buyer agrees to make all complaints for damage in transit or "short count" directly to the carrier; before the contents are unloaded have the carrier agent's acknowledgement of such damage noted on the bill of lading and to present to the carrier its agent's acknowledgement of such damaged material with formal claim covering said damage.

GENERAL
Zurn Australia reserves the right to make changes in design or equipment of any item or product without incurring any obligation on previously sold items, and to discontinue items at any time, without notice. Possession of this Catalogue or other sales literature is not to be construed as an offer to sell. All orders are subject to acceptance by Zurn Australia. Catalogue printed in Australia. For compliances, contact Zurn Australia head office on 1300 00 ZURN

Zurn Australia is not responsible for typographical errors. The contents of this guide are subject to revision without notice.

Zurn Warranty

1. Zurn Australia provides consumers with the following warranty in relation to this Product, in addition to complying with the requirements of any relevant legislation, including the Competition and Consumer Act 2010 (Cth) in Australia and the Consumer Guarantees Act 1993 in New Zealand (the Acts), except where a New Zealand consumer acquires the relevant Product for the purposes of a business.

2. In this warranty, we have used the following definitions:
(a) **Zurn Australia, our or we means Zurn Australia** Pty Ltd, ABN 121 649 227 58 of 49 Lakeside Drive, Broadmeadows Victoria 3095;
(b) **Products means goods** manufactured by Zurn Industries, Inc., a Zurn Company and distributed in Australia and New Zealand by Zurn Australia;
(c) Material means a material or component used in the manufacture of the Products;
(d) **Warranty Period means 12 months from the date of purchase** of the relevant Product. If the Product or part (as the case may be) is repaired or replaced, there will be no extension to the original warranty period; and
(e) **Workmanship means the handling, assembly and manufacturing** processes performed by or on behalf of Zurn Australia in order to manufacture the Products.

3. Zurn Australia warrants that for the duration of the Warranty Period, all Products will be free of faults arising from defects in Workmanship or Materials, on the terms and conditions set out in this warranty.

4. Zurn Australia undertakes that if during the Warranty Period any Product, or any part of a Product, has failed to operate correctly due to faulty Workmanship or defective Material, it will repair or replace the Product or part (as the case may be) free of charge provided that the following procedure is met:
(a) The consumer must contact Zurn Australia upon becoming aware of any defect to a Product and complete and return a Service Request Form. The Service Request Form is available at zurn.com.au or upon request from Zurn Australia. The contact details for Zurn Australia are set out at the bottom of this page under the heading "Zurn Australia Offices".
(b) Following consultation with Zurn Australia, Zurn Australia will determine whether there is a defect, and if so Zurn Australia agrees (at Zurn Australia's option) to repair, replace or supply equivalent goods, or pay the cost of any of those remedies to the customer.
(c) If Zurn Australia requests the return of the applicable Product or part, Zurn Australia will be responsible for the collection and freight costs of returning that Product or part. The consumer agrees to assist Zurn Australia with any reasonable request to enable Zurn Australia to collect such Product or part.
(d) Zurn Australia also agrees to be responsible for the freight costs to deliver any new Product or replacement part to the consumer.

5. This warranty is in addition to any non-excludable legal rights or remedies conferred on the consumer under any applicable Act and any similar laws. To the extent permitted by law, Zurn Australia's liability for any non-excludable condition or warranty is limited to rectifying any defect at its option, as set out in paragraph 4(b).

6. Subject to the requirements of any applicable Act or legislation and to the extent permitted by law, no liability (whether expressed or implied) of any nature whatsoever, is accepted by Zurn Australia for any consequential loss, damage or injury arising as a result of any fault in the Products.

7. This warranty does not extend to damage to Products which occurs during transit or transportation, or which is caused by any abuse, accident or improper installation, connection, use, adjustment or repair or use of goods otherwise than in accordance with instructions issued by Zurn Australia or the manufacturer of the Product.

8. The following applies to consumers who purchased a relevant Product in Australia:
Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Zurn Australia Pty Ltd Warranty Statement: Zurn products effective 1 July 2016


ZURN

Zurn Engineered Water Solutions® is a recognised 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, recognised manufacturer to supply your entire installation, from behind the wall rough-in, to finish trim product and fixture systems.

ZURN®

Engineered Water Solutions

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