ZURN® AquaVantage® AV

NUMBER ONE IN FLUSH VALVES

Superior Performance · Chemical Resistance · Filtered Diaphragm
Water Conserving · Five-Year Warranty

AquaVantage® AV

Triple Filtered Diaphragm

Sustainability and performance … AquaVantage. The best performing flush valve diaphragm.

Zurn AquaVantage Diaphragm Kit

Zurn Z6000AV flush valves feature the revolutionary chemical and clog resistant AquaVantage Triple Filter Diaphragm Kit. The Zurn AquaVantage Kit is designed to eliminate the common problems that are associated with flush valve installations such as fixture evacuation, run-on, degradation of rubber components, and sediment. The AquaVantage Kit now makes these problems a thing of the past. It provides greater performance, ensures reliability, and greatly extends the operating life of the internal components.

How The Zurn Triple Filter Diaphragm Works

1. Water from the lower valve chamber is directed through a plurality of individual passageways and into one of the twenty-two filter cells found around the perimeter of the diaphragm. Each filter cell stops unwanted debris and allows only clean water to proceed toward the main orifice.
2. The filtered water then travels over a number of parabolic weirs. Each weir acts as a small dam causing the finest of sediment to settle from the water flow.
3. The filtered water is then filtered one more time through another set of filter holes strategically placed adjacent to the main orifice. Only clean, filtered water is passed through the main by-pass orifice.

Conservation and Water Savings

As the need to conserve water grows and the cost of water and sewer rises, building owners are looking for ways to reduce occupant water consumption. AquaVantage flush valves have the ability to maintain consistent flush volumes and reduce water consumption by not exceeding the necessary flush requirements needed for proper fixture performance. With the AquaVantage's long lasting TPE chemical resistant internal components and triple filter clog resistant diaphragm, the chance of wasting water due to valve failure is virtually nonexistent. Zurn AquaVantage flush valves are the most water conserving and lowest life cycle cost flush valve available today.

Chemical Resistance

Sustainability

The process of treating a water supply with chlorine and ammonia is known as chloramination. The increased levels of chloramines found in today's potable water break down EPDM, natural rubber, and nitrite rubber parts causing premature failure. The AquaVantage diaphragm kit is made of chloramine resistant thermoplastics and theroplastic elastomers that are engineered to withstand the chemicals found in municipal water supplies. The TPE elastomer used for AquaVantage components has proven to withstand prolonged exposure to the same chemicals that cut short the life of other diaphragm kits. AquaVantage's superior chemical resistance provides the building owner with consistent fixture/flush valve performance and reliable water savings.

Casting Composition

Corrosion Resistance

AquaVantage flush valves are manufactured from a special proprietary alloy formulated by Zurn engineering to take advantage of low lead content while ensuring the highest structural integrity in tensile strength and yield strength. The AquaVantage alloy also takes into consideration the effects of dezincification on brass castings. Testing shows the Zurn alloy is equal to red brass for dezincification resistance.

- ***Chemical Resistant***
- ***Clog Resistant***
- ***Triple Filtered By-Pass***
- ***Sustainability***
- ***Water Conserving***
- ***Interchangeability***
- ***Dual Seal Technology***
- ***Prevents Run-On***
- ***Extends Component Life***
- ***Ensures Fixture Evacuation***

Before Testing

Zurn TPE

Permex®

After Testing

Zurn TPE

Permex®

Chemical Resistance

IMR independent laboratory test reports state "The Zurn diaphragms exhibited much greater resistance to the monochloramine test solution than the Permex® diaphragms. The material properties (hardness, mass, and volume) of the Zurn diaphragms exhibited a slow linear rate of change. In contrast, the Permex[1] diaphragm material properties deteriorate rapidly after 156 hours of test exposure." *ASTM D6284

Casting Composition

IMR independent laboratory test reports state "The Zurn valve body material performed as well as the semi-red brass body under dezincification testing. Both the Zurn and semi-red brass body materials were free of dezincification and meet the dezincification requirements of a category 11 alloy per AS 2345-1992." **

* IMR #20013231
** IMR # 200404483
1 Permex is a registered trademark of Sloan® Valve Company

Let Performance Be Your Guide

- AquaVantage TPE triple filtered by-pass diaphragm has superior chemical resistance.
- Integral triple filter diaphragm eliminates run-on due to sediment.
- One-piece filter construction eliminates the risk of problems associated with snap-on filters.
- Integral dual-seal diaphragm provides a secondary seal against debris and ensures quiet operation.
- Superior high polished chrome-plated finish.
- One-piece ADA compliant handle with no-leak handle seal.
- Siphon-guard control stop with vandal-resistant cap.
- High pressure vacuum breaker for low consumption fixtures.
- Sweat kit with cast wall flange.
- Low lead dezincification-resistant alloy.
- Non-hold-open handle feature.
- Fixed metered flush to ensure water conservation.
- Clog resistant by-pass maintains consistent metered flush.
- All internal seals are made of chloramine resistant materials.
- Five-year limited warranty.

AquaVantage Standard Features

Cast Wall Flange With Setscrew

Vandal-Resistant Control Stop Cover

Low-Force, No-Leak, ADA-Compliant Handle

High Pressure Vacuum Breaker

Specify

WC1 Furnish Zurn Z6000AV-WS1 AquaVantage 1.6 gpf flush valve with chemical resistant TPE internal components and triple filter diaphragm. ADA compliant non-hold open handle, siphon-guard back check control stop, high pressure vacuum breaker, sweat solder kit with cast wall flange and vandal-resistant stop cover, dezicification resistant casting and five-year warranty.

UR1 Furnish Zurn Z6003AV-WS1 AquaVantage 1.6 gpf flush valve with chemical resistant TPE internal components and triple filter diaphragm. ADA compliant non-hold open handle, siphon-guard back check control stop, high pressure vacuum breaker, sweat solder kit with cast wall flange and vandal-resistant stop cover, dezicification resistant casting and five-year warranty.

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