

Application

Designed for drop-in replacement of existing longer lay length assemblies without the need for additional spools or spacers, saving 2 to 6 hours of installation labor and up to 2 machine hours per backflow replacement. A custom sized grooved spool installed between the backflow body and downstream shut-off valve allows customer specified assembly lengths to be shipped directly from the factory. Designed for installation on water lines in fire protection systems to protect against both backsiphonage and backpressure of contaminated water into the water supply. The Model 375ADAR shall provide protection where a potential health hazard exists. Incorporates metered by-pass to detect leaks and unauthorized water use.

Standards Compliance

- ASSE® Listed 1047 (2 1/2" - 8")
- CSA® Certified B64.4 (2-1/2" - 8")
- AWWA Compliant C550
- UL® Classified
- C-UL® Classified
- FM® Approved
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California.
- NSF® Listed-Standard 61, Annex G*

*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

By-Pass Backflow Assembly 3/4" Model 975XLD

Materials

| | |
|---------------------|--|
| Main valve body | Ductile Iron ASTM A 536 Grade 4 |
| Access covers | Ductile Iron ASTM A 536 Grade 4 |
| Coatings | FDA Approved fusion epoxy finish |
| Internals | Stainless steel, 300 Series NORYL™, NSF Listed |
| Fasteners & Springs | Stainless Steel, 300 Series |
| Elastomers | EPDM (FDA approved) Buna Nitrile (FDA approved) |
| Polymers | NORYL™, NSF Listed |
| Sensing line | Stainless steel, braided hose |

Dimensions & Weights (do not include pkg.)

| MODEL 375ADAR SIZE | | WEIGHT W/MAX. SPOOL LENGTH | |
|--------------------------|-----|----------------------------|-----|
| | | WITH OS&Y GATES (GXF) | |
| in. | mm | lbs. | kg |
| 2 1/2 | 65 | 220 | 100 |
| 3 | 80 | 240 | 109 |
| 4 | 100 | 274 | 124 |
| 6 | 150 | 425 | 193 |
| 8 | 200 | 854 | 387 |
| 10 | 250 | 1180 | 535 |

| MODEL 375ADAR SIZE | DIMENSION (approximate) | | | | | | | | | | | |
|--------------------------|-------------------------|---------|--------|-------|-------|--------|-------------------|---------------------|-------|----------------------|---------|-----|
| | A | | B | | C | D | E OS&Y OPEN | E OS&Y CLOSED | F | G SPOOL LENGTH | | H |
| | in. | min | max | in. | in. | in. | in. | in. | in. | min | max | in. |
| 2 1/2 | 37 1/8 | 47 1/8 | 20 1/8 | 4 1/2 | 7 1/4 | 16 3/8 | 13 7/8 | 11 | 2 1/8 | 12 | 7 1/4 | |
| 3 | 38 1/8 | 48 1/8 | 20 1/8 | 4 1/2 | 7 1/4 | 18 7/8 | 15 5/8 | 11 | 2 1/8 | 12 | 7 1/4 | |
| 4 | 40 1/2 | 62 1/4 | 19 7/8 | 4 1/2 | 8 | 22 3/4 | 18 1/4 | 11 | 2 1/4 | 24 | 7 1/4 | |
| 6 | 49 1/2 | 71 1/4 | 25 7/8 | 5 1/2 | 10 | 30 1/8 | 23 3/4 | 12 3/8 | 2 1/4 | 24 | 9 1/4 | |
| 8 | 64 7/8 | 86 | 38 1/2 | 10 | 11 | 37 3/4 | 29 1/4 | 15 3/8 | 2 7/8 | 24 | 13 7/8 | |
| 10 | 67 3/8 | 100 5/8 | 38 1/2 | 10 | 12 | 45 3/4 | 35 3/8 | 15 3/8 | 2 3/4 | 36 | 16 7/16 | |



PATENT PENDING

Options

(Suffixes can be combined)

- with flanged end OS & Y gate valves (standard)
- LM - less water meter
- with remote reading meter
- with gpm meter (standard)
- CFM - with cu ft/min meter
- PI - with Post Indicator Gate Valves
- MS - with Integral Relief Valve Monitor Switch

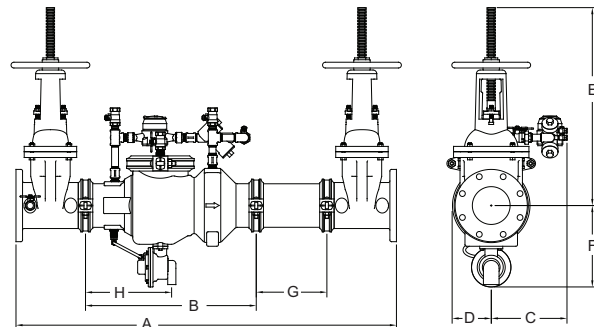
Accessories

- Air gap (Model AG)
- Thermal expansion tank (Model XT)
- OS & Y Gate valve tamper switch (OSY-40)
- QT-SET Quick Test Fitting Set

Features

| | | |
|--|-----------------------------|------------|
| Sizes: | 2 1/2", 3", 4", 6", 8", 10" | |
| Maximum working water pressure | | 175 PSI |
| Maximum working water temperature | | 140°F |
| Hydrostatic test pressure | | 350 PSI |
| End connections (Grooved for steel pipe) | | AWWA C606 |
| (Flanged) | | ANSI B16.1 |
| | | Class 125 |

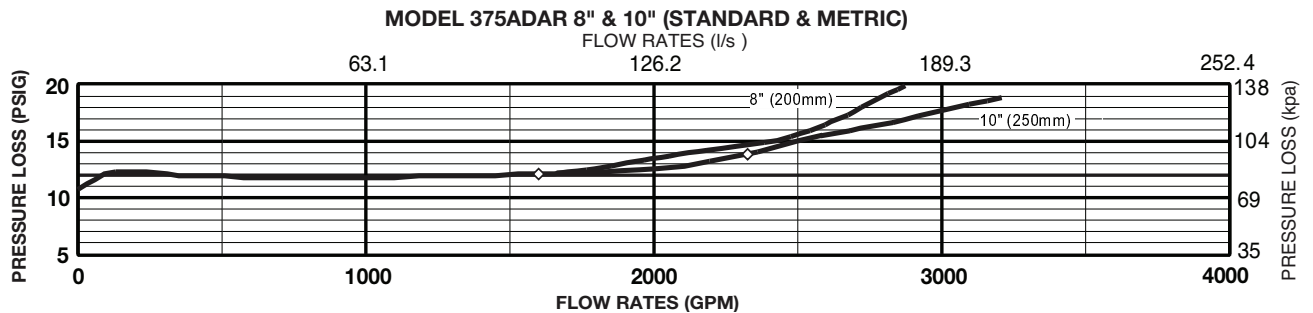
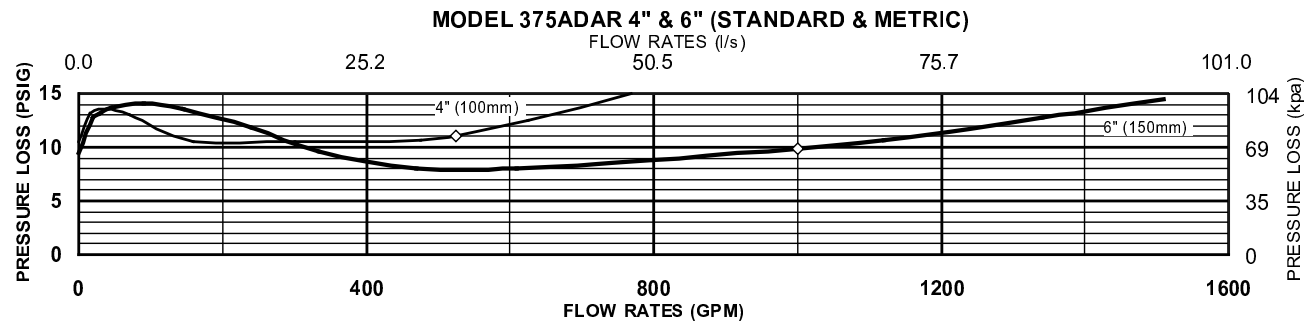
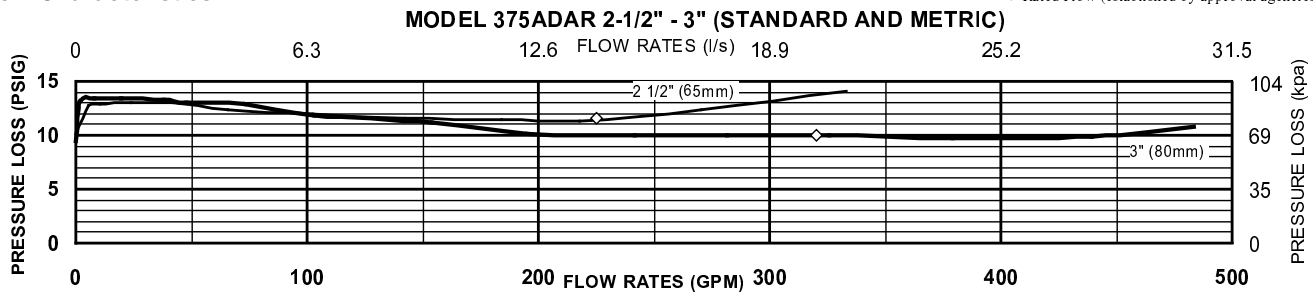
*2 1/2" & 3" sizes use 4" body & reducer couplings



Relief Valve discharge port:
2 1/2" - 6" - 2.75 sq. in.
8" - 10" - 3.69 sq. in.

Flow Characteristics

◇ Rated Flow (established by approval agencies)



Typical Installation

Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted at a minimum of 12" (305mm) and a maximum of 30" (762mm) above adequate drains with sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the unit can be submerged.

Order Configuration

- Exact in field measurements are required when ordering the assembly. Please have the assembly length ready when ordering.
- All assemblies are custom made to order and all sales are final.
- Lead time is approximately one week.

Generic part number used for ordering:

X-375ADAR*-Y

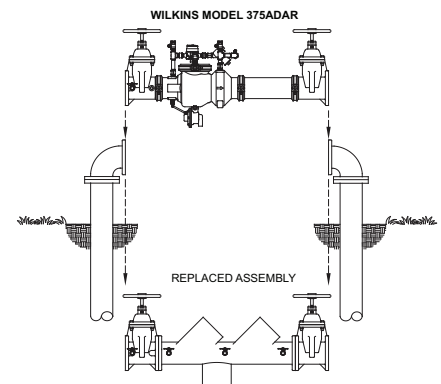
where X= NOMINAL VALVE SIZE (212 REPRESENTS 2-1/2")

Y= ASSEMBLY LENGTH SUFFIX: choose A-C from table at right (exact in field measurements must be given to customer service representative)

*= ADDED OPTIONS (use suffixes designated in OPTIONS section on previous page)

Example

To order a 4" Model 375ADAR with OS&Y gate valves and an assembly length of 52 3/8", the part number would be 4-375ADAR-B. The length of 52 3/8" would be given to Customer Service.



| NPS | ASSEMBLY LENGTH SUFFIX | | | | | |
|--------|------------------------|---------|----------|---------|----------|----------|
| | A | | B | | C | |
| | From | To | From | To | From | To |
| 2-1/2" | 37 1/8" | 47 1/8" | | | | |
| 3" | 38 1/8" | 48 1/8" | | | | |
| 4" | 40 1/2" | 50" | 50 1/16" | 62 1/4" | | |
| 6" | 49 1/2" | 59" | 59 1/16" | 71 1/4" | | |
| 8" | 64 7/8" | 74" | 74 1/16" | 86" | | |
| 10" | 67 3/8" | 77" | 77 1/16" | 89" | 89 1/16" | 100 5/8" |

Specifications

The Reduced Pressure Detector Backflow Prevention Assembly shall be ASSE® Listed 1047, and supplied with full port OS & Y gate valves. The main body and access cover shall be epoxy coated ductile iron (ASTM A 536 Grade 4), the seat ring and check valve shall be NORYL™, the stem shall be stainless steel (ASTM A 276) and the seat disc elastomers shall be EPDM. The checks and the relief valve shall be accessible for maintenance without removing the device from the line. The Reduced Pressure Detector Backflow Prevention Assembly shall be a ZURN WILKINS Model 375ADAR.

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