Model 375
Reduced Pressure Principle Assembly

Application
Designed for installation on potable water lines to protect against both backspionage and backpressure of contaminated water into the potable water supply. The Model 375 provides protection where a potential health hazard exists. Ideal for use where lead-free* valves are required.

Standards Compliance
(Unless Otherwise Noted, Sizes 2 1/2" Thru 10")
- ASSE® Listed 1013
- IAPMO® Listed
- CSA® Certified B64.4 (2 1/2" thru 8")
- AWWA Compliant C606, and C550
- FM® Approved
- UL® Classified
- C-UL® Classified
- NYC MEA 49-01-M Vol 2
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California.
- Meets the requirements of NSF/ANSI 61*
  *(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

Materials
Main valve body  Ductile Iron ASTM A 536
Access covers  Ductile Iron ASTM A 536
Coatings  NSF Approved fusion epoxy finish
Internals  Stainless steel, 300 Series
NORYL™
Fasteners  Stainless Steel, 300 Series
Seal rings  EPDM (FDA approved)
Springs  Stainless Steel, 300 Series
Sensing line  Stainless Steel, braided hose

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

Dimensions & Weights (do not include pkg.)

| MODEL 375 SIZE | A | B | R | S | T | C | D | E | G | H | R | LESS | NRS | GATE | VALVES | FLANGED | NRS | GATE | VALVES | FLANGED | NRS | GATE | VALVES | FLANGED | OUTLET | CONNECTION |
|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2 1/2"         | 0.55 | 3.75 | 0.85 | 2.37 | 0.96 | 1.63 | 0.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 |
| 3             | 0.81 | 3.21 | 0.85 | 2.12 | 0.96 | 1.63 | 0.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 |
| 4             | 1.06 | 3.09 | 0.85 | 2.12 | 0.96 | 1.63 | 0.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 |
| 6             | 1.67 | 2.37 | 0.96 | 1.96 | 0.96 | 1.63 | 0.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 |
| 8             | 2.09 | 3.74 | 1.03 | 2.37 | 0.96 | 1.63 | 0.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 |
| 10            | 2.36 | 3.52 | 1.03 | 2.37 | 0.96 | 1.63 | 0.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 | 1.71 | 1.96 | 1.96 | 5.63 |

Attention:
Model 375 (flange body) and Model 375A (grooved body) have different lay lengths.

Options
(Suffixes can be combined)
- with NRS shut-off valves (standard)
- FSC - with epoxy coated wye type strainer (flanged only)
- G - with grooved end NRS gate valves
- GF - with grooved inlet connection and flanged outlet connection
- FG - with flanged inlet connection and grooved outlet connection
- L - less shut-off valves (flanged body connections)
- MS - with Integral Relief Valve Monitor Switch
- OSY - with OS&Y gate valves
- PI - with Post Indicator gate valve
- BG - with grooved end butterfly valves with integral supervisory switches
- ~S09 - with AWWA C509 gate valves

Accessories
- Repair kit (rubber only)
- Thermal expansion tank (Model XT)
- OS & Y Gate valve tamper switch (OSY-40)
- Air gap (Model AG)
- Electronic Solenoid Timer (Model EST)
- QT-SET Quick Test Fitting Set

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

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Flow Characteristics

MODEL 375 2 1/2", 3" & 4" (STANDARD & METRIC)
FLOW RATES (l/s)

0.0 12.6 25.2 37.9 50.5
FLOW RATES (GPM)
0 200 400 600 800
PRESSURE LOSS (PSIG)
0 5 10 15 20
PRESSURE LOSS (kPa)
0 35 69 104 138

MODEL 375 6", 8" & 10" (STANDARD & METRIC)
FLOW RATES (l/s)

0.0 63.1 126.2 189.3 252.4
FLOW RATES (GPM)
0 1000 2000 3000 4000
PRESSURE LOSS (PSIG)
0 5 10 15 20
PRESSURE LOSS (kPa)
0 35 69 104 138

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.

Specifications

The Reduced Pressure Principle Backflow Prevention Assembly shall be certified to NSF/ANSI 61, ASSE® Listed 1013, and supplied with full port gate valves. The main body and access cover shall be epoxy coated ductile iron (ASTM A 536), 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 Principle Backflow Prevention Assembly shall be a ZURN WILKINS Model 375.

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