



Model 375ASTDA

Reduced Pressure Detector Assembly

Application

Designed for installation on water lines in fire protection systems to protect against both backsiphonage and backpressure of contaminated water into the potable water supply. The Model 375ASTDA shall provide protection where a potential health hazard exists. Incorporates metered by-pass to detect leaks and unauthorized water use.



MODEL 375ASTDABG
(SHOWN WITH OPTIONAL
GROOVED END BUTTERFLY VALVES)

Standards Compliance (Horizontal)

- ASSE® Listed 1047
- AWWA Compliant C550
- UL® Classified
- C-UL® Classified
- FM® Approved
- CSA® Certified B64.4
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California
- Meets the requirements of NSF/ANSI/CAN 61*
*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

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

Materials

| | |
|---------------------|--|
| Main valve body | 304L Stainless steel |
| Access covers | 304L Stainless steel |
| Internals | Stainless steel 300 Series NORYL™ |
| Fasteners & Springs | Stainless steel, 300 Series |
| Elastomers | EPDM (FDA approved) Buna Nitrile (FDA approved) |
| Polymers | NORYL™ |
| 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 B16.42 |
| | Class 150 |

Dimensions & Weights (do not include pkg.)

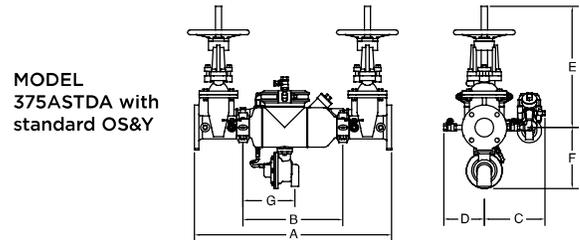
| MODEL 375ASTDA SIZE | WEIGHT | | | | | | | |
|---------------------|-----------------------|-----------|----------------------|-----------|-----------------------------|-----------|-----------------------------|--|
| | WITH OS&Y GATES (GXF) | | WITH OS&Y GATES(GXG) | | WITH BUTTERFLY VALVES (GXG) | | WITH BUTTERFLY VALVES (GXF) | |
| in. mm | lbs. kg | lbs. kg | lbs. kg | lbs. kg | lbs. kg | lbs. kg | lbs. kg | |
| 2 1/2 65 | 137 62 | 127 58 | 104 47 | 114 52 | | | | |
| 3 80 | 155 71 | 143 65 | 109 50 | 122 56 | | | | |
| 4 100 | 229 104 | 209 95 | 112 51 | 134 61 | | | | |
| 6 150 | 364 166 | 334 152 | 176 80 | 206 94 | | | | |
| 8 200 | 681 309 | 627 284 | 364 165 | 387 176 | | | | |
| 10 250 | 900 408 | 842 382 | 536 243 | 594 269 | | | | |

Options

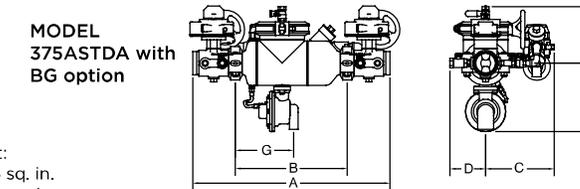
- (Suffixes can be combined)
- with flanged end OS & Y gate valves (standard)
 - LM - less water meter
 - with gpm meter (standard)
 - CFM - with cu ft/min meter
 - G - with grooved end OS&Y gate valves
 - FG - with flanged inlet gate connection and grooved outlet gate connection
 - PI - with Post Indicator Gate Valves
 - BG - with grooved end butterfly valves with integral supervisory switch
 - BF - with flanged end butterfly valves with integral supervisory switch
 - RV - with by-pass on right hand side

Accessories

- Air gap ([Model AG - Spec Sheet](#))
- [Repair kit](#)
- Thermal expansion tank ([Model XT - Spec Sheet](#))
- OS & Y Gate valve tamper switch ([OSY-40](#))
- Quick Test Fitting Set ([QT-SET - Spec Sheet](#))



MODEL 375ASTDA with standard OS&Y

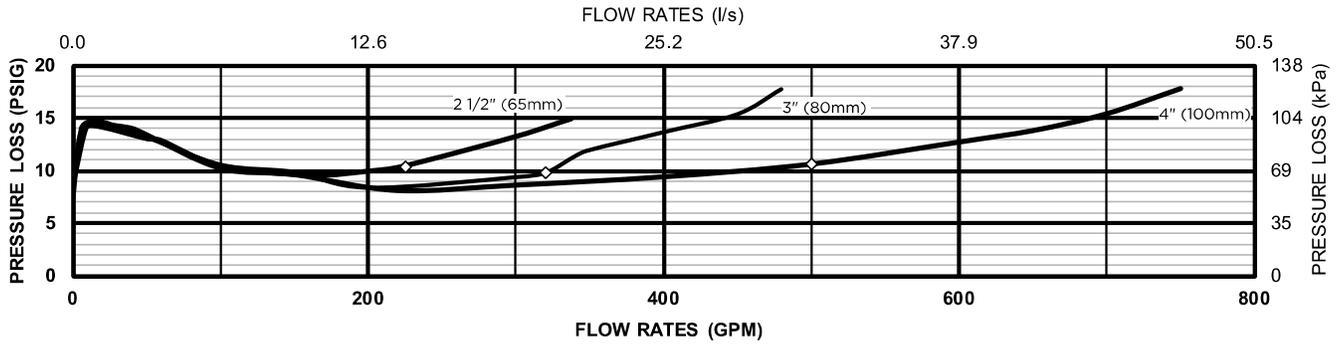


MODEL 375ASTDA with BG option

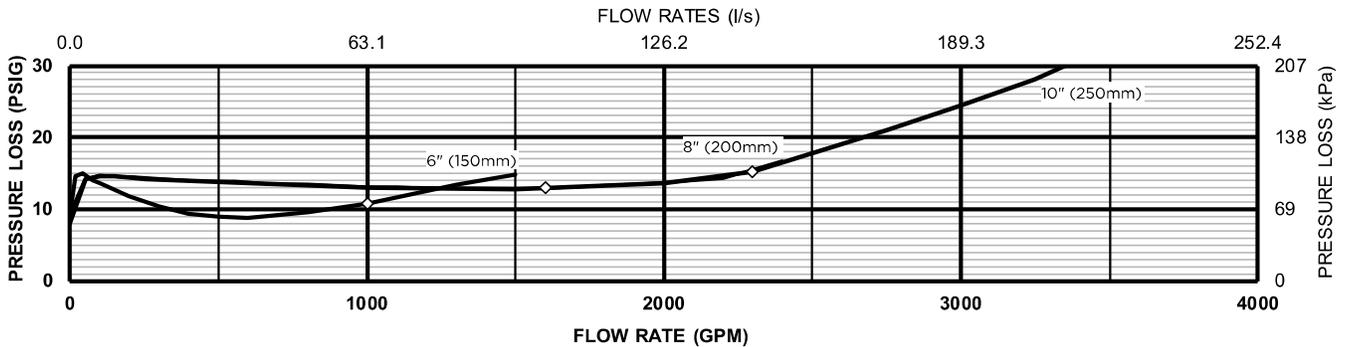
Relief Valve discharge port:
2 1/2" - 6" - 2.75 sq. in.
8"-10" - 3.69 sq. in.

| MODEL 375ASTDA SIZE | DIMENSION (approximate) | | | | | | | | | | | | | | | | | | | |
|---------------------|-------------------------|---------------|-------------------------|--------------|--------------------|---------------|--------------|--------------|--------------|--------------|-------------|----------|---------------|----------|-------------------------|----------|----------|----------|----------|----------|
| | A | | A WITH BUTTERFLY VALVES | | B LESS GATE VALVES | | C | | D | | E OS&Y OPEN | | E OS&Y CLOSED | | E WITH BUTTERFLY VALVES | | F | | G | |
| in. mm | in. mm | in. mm | in. mm | in. mm | in. mm | in. mm | in. mm | in. mm | in. mm | in. mm | in. mm | in. mm | in. mm | in. mm | in. mm | in. mm | in. mm | in. mm | in. mm | in. mm |
| 2 1/2 65 | 31 7/8 810 | 28 3/4 730 | n/a n/a | 12 305 | 7 1/4 184 | 17 3/4 451 | 15 3/8 391 | 8 1/4 210 | 9 3/4 248 | 8 5/8 219 | | | | | | | | | | |
| 3 80 | 32 7/8 835 | 29 3/8 746 | n/a n/a | 12 305 | 7 1/4 184 | 20 1/4 514 | 17 432 | 8 1/4 210 | 9 3/4 248 | 8 5/8 219 | | | | | | | | | | |
| 4 100 | 34 7/8 886 | 30 1/4 768 | n/a n/a | 12 305 | 8 203 | 22 1/2 572 | 18 1/4 464 | 9 229 | 9 3/4 248 | 8 5/8 219 | | | | | | | | | | |
| 6 150 | 43 1/2 1105 | 36 1/2 927 | n/a n/a | 10 1/2 267 | 10 254 | 30 1/2 775 | 24 1/4 616 | 10 1/4 260 | 10 3/4 273 | 11 1/4 286 | | | | | | | | | | |
| 8 200 | 52 3/4 1340 | 45 3/4 1162 | n/a n/a | 15 1/8 384 | 11 279 | 37 940 | 28 1/2 724 | 18 1/2 470 | 15 5/8 397 | 13 1/4 337 | | | | | | | | | | |
| 10 250 | 55 3/4 1416 | 49 3/4 1264 | n/a n/a | 15 1/8 384 | 12 305 | 45 5/8 1159 | 34 3/4 883 | 18 1/2 470 | 15 5/8 397 | 13 1/4 337 | | | | | | | | | | |

MODEL 375ASTDA 2 1/2", 3" & 4" (STANDARD & METRIC)



MODEL 375ASTDA 6", 8" & 10" (STANDARD AND METRIC)



Suggested PRV Pairing:

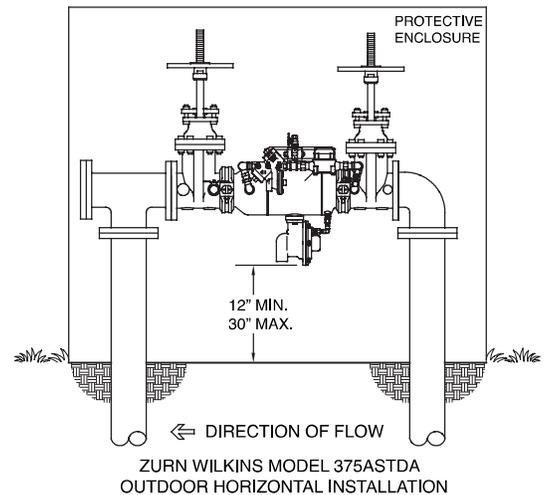
- [Model ZW5000](#) Hose Valve ([Spec sheet](#))
- [Model ZW5004](#) Floor Control - Sprinkler Valve ([Spec sheet](#))
- [Model ZW209FP](#) Fire Protection Pressure R. ([Spec Sheet](#))

Typical Installation

- [\(Installation & Maintenance Instruction Sheet\)](#) 2 1/2" - 6"
- [\(Installation & Maintenance Instruction Sheet\)](#) 8" - 10"

Local codes shall govern installation requirements. To be installed in accordance with the manufacturer's instructions and the latest edition of the Uniform Plumbing Code. 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.

| Capacity thru Schedule 40 Pipe (GPM) | | | | |
|--------------------------------------|----------|------------|-----------|-----------|
| Pipe size | 5 ft/sec | 7.5 ft/sec | 10 ft/sec | 15 ft/sec |
| 2 1/2" | 75 | 112 | 149 | 224 |
| 3" | 115 | 173 | 230 | 346 |
| 4" | 198 | 298 | 397 | 595 |
| 6" | 450 | 675 | 900 | 1351 |
| 8" | 780 | 1169 | 1559 | 2339 |
| 10" | 1229 | 1843 | 2458 | 3687 |
| 12" | 1763 | 2644 | 3525 | 5288 |



Specifications

The Reduced Pressure Detector Backflow Prevention Assembly shall be certified to NSF/ANSI/CAN 61, ASSE® Listed 1047, and supplied with full port OS & Y gate valves. The main body and access cover shall be 304L Stainless Steel, 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 375ASTDA.