

### 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. Utilizes a by-pass backflow assembly 3/4" Model 975XLD.



### Standards Compliance

(Horizontal)

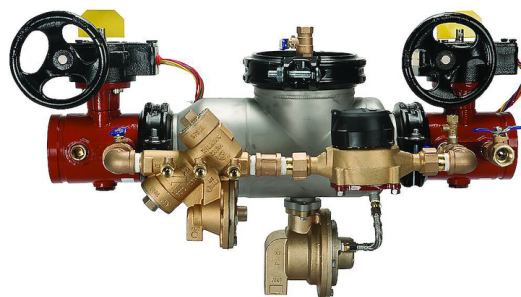
- ASSE® Listed 1047
  - AWWA Compliant C550
  - UL® Classified
  - C-UL® Classified
  - FM® Approved
  - CSA® Certified B64.4
  - Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California
  - Meets the requirements of NSF/ANSI/CAN 61 and 372\*
- \*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

### Materials

|                       |                                                    |
|-----------------------|----------------------------------------------------|
| Main Valve Body       | 304L Stainless Steel                               |
| Access Covers         | 304L Stainless Steel                               |
| Elastomers            | Buna Nitrile (FDA approved)<br>EPDM (FDA approved) |
| Fasteners and Springs | 300 series Stainless Steel                         |
| Internals             | 300 series Stainless Steel<br>NORYL™ (NSF Listed)  |
| Polymers              | NORYL™ NSF Listed                                  |
| 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                   |
| End connections (Flanged)                | ANSI/ASME B16.42 Class 150  |



4" 375ASTDABG

### Options (Suffixes can be combined)

- With flanged end OS&Y gate valves (standard)
- With gpm meter (standard)
- LM** Less water meter
- CFM** With cu ft/min meter
- PI** With post indicator gate valves
- RV** With by-pass on right hand side
- BG** With grooved end butterfly valves with integral supervisory switches
- BF** With flanged end butterfly valves with integral supervisory switches
- G** With grooved end connections
- FG** With flanged inlet gate connection and grooved outlet gate connection

### Accessories

- Repair Kits (2-1/2" - 10")
- Repair Kits - RP Relief Valve
- Air Gap Fitting for RP Backflow **AG**
- Thermal Expansion Tank **XT**
- OSY Gate Valve Supervisory Switch **OSY-40**
- Quick Test Fitting Set **QT-SET**

### Suggested Pairing

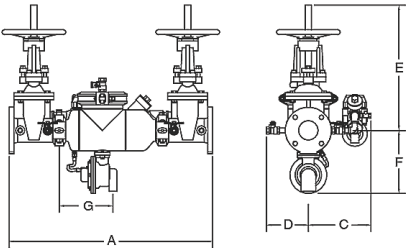
- Fire Protection Pressure Reducing Valve **ZW209FP**
- Hose Valve **ZW5000**
- Floor Control - Sprinkler Valve **ZW5004**

Dimensions & Weights (do not include pkg.)

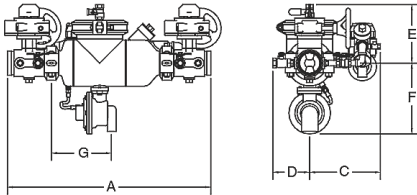
| MODEL<br>375ASTDA<br>SIZE | WEIGHT                   |     |                         |     |                                   |     |                                   |     |
|---------------------------|--------------------------|-----|-------------------------|-----|-----------------------------------|-----|-----------------------------------|-----|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

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

MODEL  
375ASTDA



MODEL  
375ASTDA with  
BG option

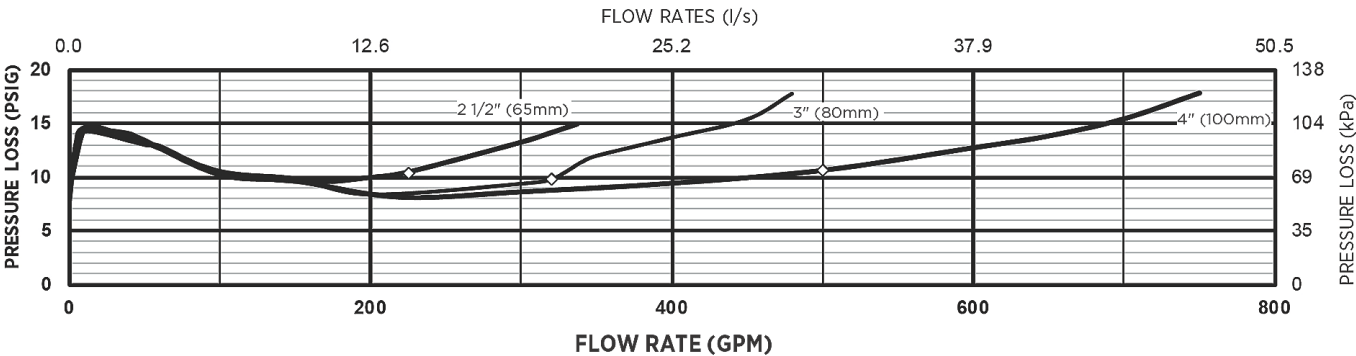


| MODEL<br>375ASTDA<br>SIZE |     | DIMENSION (approximate) |      |                               |      |        |     |       |     |                |      |                  |     |                               |     |        |     |        |     |
|---------------------------|-----|-------------------------|------|-------------------------------|------|--------|-----|-------|-----|----------------|------|------------------|-----|-------------------------------|-----|--------|-----|--------|-----|
|                           |     | A                       |      | A WITH<br>BUTTERFLY<br>VALVES |      | C      |     | D     |     | E<br>OS&Y OPEN |      | E<br>OS&Y CLOSED |     | E WITH<br>BUTTERFLY<br>VALVES |     | F      |     | G      |     |
| 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  | 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  | 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  | 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  | 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 | 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 | 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 |

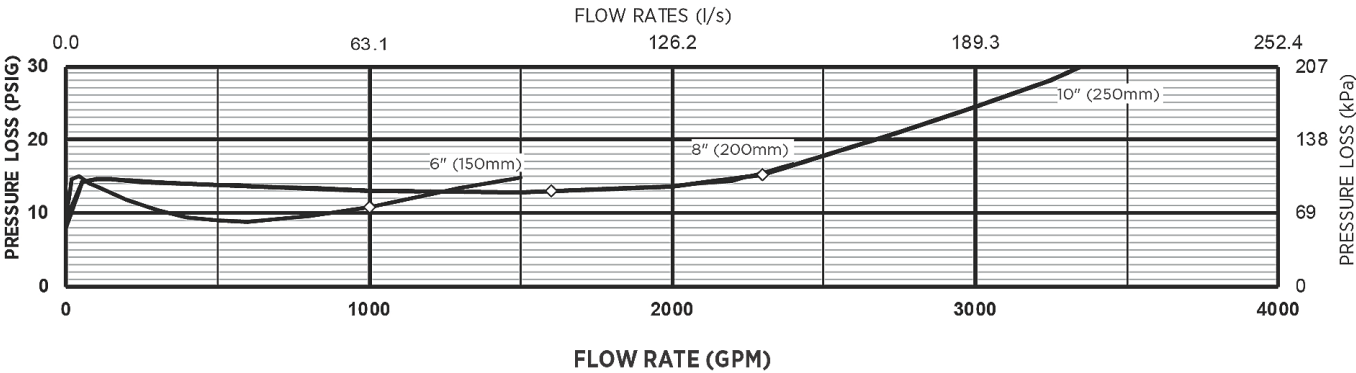
Flow Characteristics

◇ Rated Flow (established by approval agencies)

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



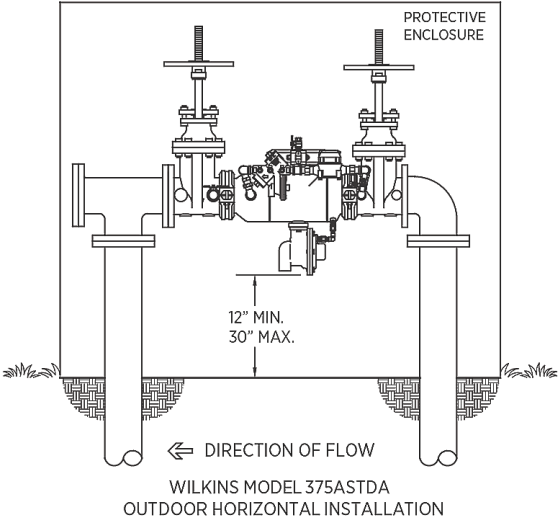
MODEL 375ASTDA 6", 8" & 10" (STANDARD AND METRIC)



Typical Installation

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      |



[Installation and Maintenance Instructions 2-1/2" - 6" Model 375ASTDA](#)

[Installation and Maintenance Instructions 8" - 10" Model 375ASTDA](#)

Specifications (375ASTDA Written Specification )

The Reduced Pressure Detector Backflow Prevention Assembly shall be certified to NSF/ANSI/CAN 61 and 372, 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 WILKINS Model 375ASTDA.