

### Application

Designed for installation on potable water lines to protect against both backsiphonage and backpressure of polluted water into the potable water supply. The Model 350AST shall provide protection where a potential health hazard does not exist. Ideal for use where Lead-Free\* valves are required.

### Standard Compliance (Horizontal and Vertical)

- ASSE® Listed 1015
  - AWWA Compliant C510 (with gates only), and C550
  - UL® Classified
  - C-UL® Classified
  - FM® Approved
  - CSA® Certified
  - IAPMO® Listed
  - Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California
  - NSF® Listed-Standard 61, Annex G\*
  - Certified to NSF/ANSI 372\* by IAPMO R&T
- \*(0.25% max. weighted average lead content)

### Materials

|                       |   |
|-----------------------|---|
| Main valve body       | 304L Stainless steel                              |
| Access covers         | 304L Stainless steel                              |
| Internals             | Stainless steel, 300 Series<br>NORYL™, NSF Listed |
| Fasteners and springs | Stainless Steel, 300 Series                       |
| Seal ring             | EPDM (FDA approved)                               |
| O-ring                | Buna Nitrile (FDA approved)                       |

### 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        |



Certified to NSF/ANSI 61-G



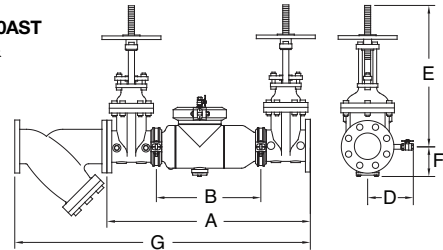
### Options (Suffixes can be combined)

- with flanged end NRS gate valves (standard)
- FSC - with epoxy coated wye type strainer (flanged only)
- G - with grooved end NRS gate valves
- GF - with grooved inlet gate connection and flanged outlet gate connection
- FG - with flanged inlet gate connection and grooved outlet gate connection
- OSY - flanged end OS&Y gate valves
- OSYG - with grooved end OS&Y gate valves
- PI - with Post Indicator Gate Valves
- BG - with grooved end butterfly valves with integral supervisory switches (2-1/2" - 6")
- BF - with flanged end butterfly valves with integral supervisory switches (2-1/2" - 6")
- BGVIC - with grooved end butterfly valves with integral supervisory switches (8" - 10")

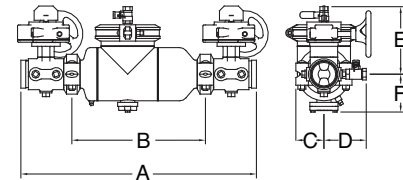
### Accessories

- Repair kit (rubber only)
- Thermal expansion tank (Model XT)
- OS & Y Gate valve tamper switch (OSY-40)

MODEL 350AST with OSY & FSC option



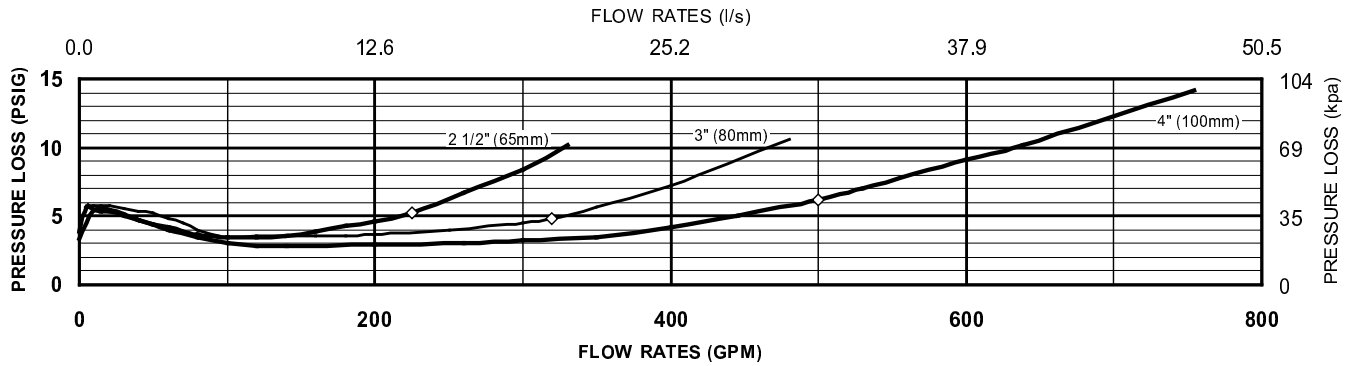
MODEL 350AST with BG option



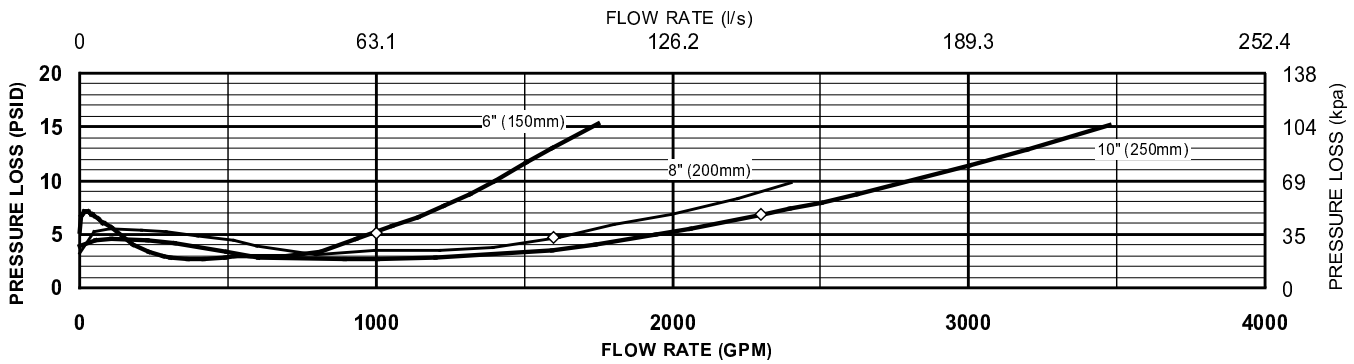
| MODEL 350AST SIZE | WEIGHT        |     |                      |     |                       |     |                      |     |                       |     |                             |     |                             |     |     |
|-------------------|---------------|-----|----------------------|-----|-----------------------|-----|----------------------|-----|-----------------------|-----|-----------------------------|-----|-----------------------------|-----|-----|
|                   | WITHOUT GATES |     | WITH NRS GATES (GXF) |     | WITH OS&Y GATES (GXF) |     | WITH NRS GATES (GXG) |     | 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  |     |
| 2 1/2             | 65            | 33  | 15                   | 94  | 43                    | 112 | 51                   | 86  | 39                    | 104 | 47                          | 79  | 36                          | 89  | 40  |
| 3                 | 80            | 34  | 15.4                 | 112 | 51                    | 130 | 60                   | 102 | 46                    | 120 | 54                          | 83  | 38                          | 96  | 44  |
| 4                 | 100           | 35  | 15.8                 | 168 | 76                    | 204 | 93                   | 142 | 64                    | 184 | 83                          | 87  | 39                          | 109 | 50  |
| 6                 | 150           | 63  | 29                   | 280 | 127                   | 338 | 153                  | 250 | 114                   | 308 | 140                         | 150 | 68                          | 180 | 82  |
| 8                 | 200           | 177 | 80                   | 565 | 256                   | 647 | 293                  | 525 | 238                   | 593 | 269                         | 294 | 133                         | n/a | n/a |
| 10                | 250           | 177 | 80                   | 769 | 349                   | 865 | 392                  | 717 | 325                   | 807 | 366                         | 399 | 181                         | n/a | n/a |

| MODEL 350AST SIZE | DIMENSION (approximate) |        |                  |        |                    |        |     |       |     |       |            |        |             |        |               |        |                         |        |     |       |     |        |      |
|-------------------|-------------------------|--------|------------------|--------|--------------------|--------|-----|-------|-----|-------|------------|--------|-------------|--------|---------------|--------|-------------------------|--------|-----|-------|-----|--------|------|
|                   | A                       |        | A WITH BUTTERFLY |        | B LESS GATE VALVES |        | C   |       | D   |       | E NRS GATE |        | 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     |      |
| 2 1/2             | 65                      | 31 7/8 | 810              | 28 3/4 | 730                | 16 5/8 | 422 | 4 1/2 | 114 | 7 1/4 | 184        | 11 1/2 | 292         | 17 3/4 | 451           | 15 3/8 | 391                     | 8 1/4  | 210 | 5     | 127 | 42     | 1067 |
| 3                 | 80                      | 32 7/8 | 835              | 29 3/8 | 746                | 16 5/8 | 422 | 4 1/2 | 114 | 7 1/4 | 184        | 12 3/4 | 324         | 20 1/4 | 514           | 17     | 432                     | 8 1/4  | 210 | 5     | 127 | 43 1/2 | 1105 |
| 4                 | 100                     | 34 7/8 | 886              | 30 1/4 | 768                | 16 5/8 | 422 | 4 1/2 | 114 | 8     | 203        | 14 1/2 | 368         | 22 1/2 | 572           | 18 1/4 | 464                     | 9      | 229 | 5     | 127 | 50     | 1270 |
| 6                 | 150                     | 43 1/2 | 1105             | 36 1/2 | 927                | 22 1/4 | 565 | 5 1/2 | 140 | 10    | 254        | 18     | 457         | 30 1/2 | 775           | 24 1/4 | 616                     | 10 1/4 | 260 | 6     | 152 | 61 5/8 | 1565 |
| 8                 | 200                     | 52 3/4 | 1340             | 45 3/4 | 1162               | 29 1/2 | 749 | 9 1/4 | 235 | 11    | 279        | 21 1/8 | 537         | 37     | 940           | 28 1/2 | 724                     | 18 1/2 | 470 | 8 3/8 | 213 | 77 1/8 | 1959 |
| 10                | 250                     | 55 3/4 | 1416             | 49 3/4 | 1264               | 29 1/2 | 749 | 9 1/4 | 235 | 12    | 305        | 24 3/4 | 629         | 45 5/8 | 1159          | 34 3/4 | 883                     | 18 1/2 | 470 | 8 3/8 | 213 | 85 3/8 | 2169 |

**MODEL 350AST 2 1/2", 3" & 4" (STANDARD & METRIC)**



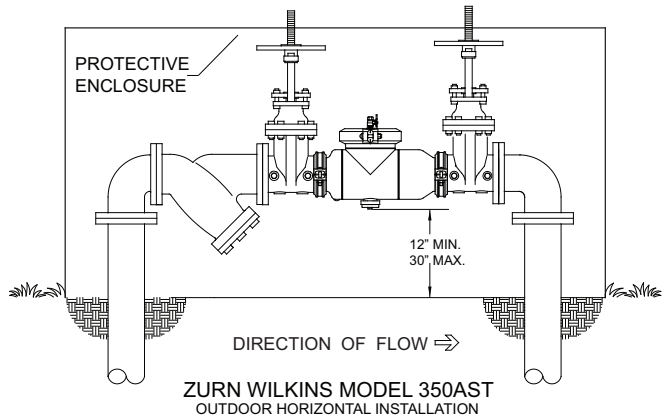
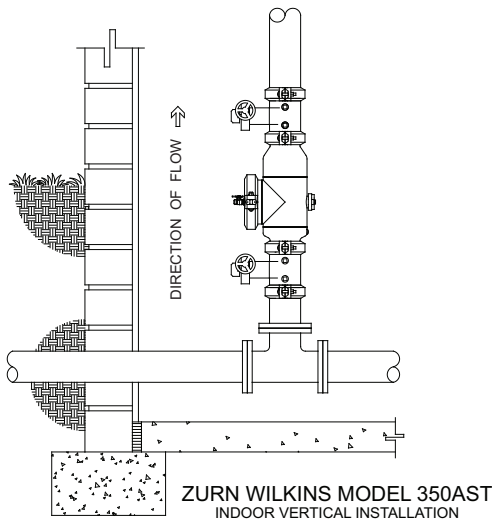
**MODEL 350AST 6", 8" & 10" (STANDARDS AND METRIC)**



**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.

| Pipe size | Capacity thru Schedule 40 Pipe (GPM) |            |           |           |
|-----------|--------------------------------------|------------|-----------|-----------|
|           | 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 Double Check Backflow Prevention Assembly shall be certified to NSF/ANSI 372, ASSE® Listed 1015, and supplied with full port 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 shall be accessible for maintenance without removing the device from the line. The Double Check Backflow Prevention Assembly shall be a ZURN WILKINS Model 350AST.