

# **Model 350AST**

# **Double Check Valve Assembly**

#### **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 B64.5
- · cUPC® Listed
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern
- Meets the requirements of NSF/ANSI/CAN 61\* \*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

### **Materials**

304L Stainless steel Main valve body Access covers 304L Stainless steel Internals Stainless steel, 300 Series

NORYL™

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

AWWA C606 (Grooved for steel pipe) ANSI B16.42 Class 150 (Flanged)





LEAD FREE





(SHOWN WITH OPTIONAL OSY GATE VALVES)

Options (Suffixes can be combined)

- with flanged end NRS gate valves (standard) ☐ FSC with epoxy coated wye type strainer (flanged
  - with grooved end NRS gate valves
- with grooved inlet gate connection and flanged □ GF
- outlet gate connection with flanged inlet gate connection and grooved □ FG
- 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
- with flanged end butterfly valves with integral  $\square$  BF supervisory switches
- flanged end OS&Y gate valves □ OSY
  - \*New Connected Products. Search ZCSM-PF on Zurn.com for details.

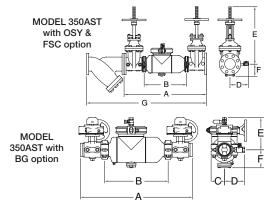
#### **Accessories**

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- ☐ Connected Pressure Monitor (Model ZCSM-PF)\*
- Connected Flow Meter Option (Model ZCSM-BTM must be ordered with Model ZCSM-PF)\*
- Repair kit (rubber only)
- ☐ Thermal expansion tank (Model XT)
- OS & Y Gate valve tamper switch (OSY-40)

# Dimensions & Weights (do not include pkg.)

|                         |     |                  | WEIGHT |                            |     |                          |     |                            |     |                                |     |                                      |     |                                      |     |  |
|-------------------------|-----|------------------|--------|----------------------------|-----|--------------------------|-----|----------------------------|-----|--------------------------------|-----|--------------------------------------|-----|--------------------------------------|-----|--|
| MODEL<br>350AST<br>SIZE |     | WITHOUT<br>GATES |        | WITH NRS<br>GATES<br>(GXF) |     | WITH OS&Y<br>GATES (GXF) |     | WITH NRS<br>GATES<br>(GXG) |     | WITH<br>OS&Y<br>GATES<br>(GXG) |     | WITH<br>BUTTERFLY<br>VALVES<br>(GXG) |     | WITH<br>BUTTERFLY<br>VALVES<br>(GXF) |     |  |
| in.                     | mm  | lbs.             | kg     | 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 | 347                                  | 112 | 393                                  | 178 |  |
| 10                      | 250 | 177              | 80     | 769                        | 349 | 865                      | 392 | 717                        | 325 | 807                            | 366 | 443                                  | 200 | 501                                  | 227 |  |



|                         |     |        | DIMENSION (approximate) |                     |      |                          |     |       |     |       |     |               |     |                |      |                     |     |                               |     |       |     |        |      |
|-------------------------|-----|--------|-------------------------|---------------------|------|--------------------------|-----|-------|-----|-------|-----|---------------|-----|----------------|------|---------------------|-----|-------------------------------|-----|-------|-----|--------|------|
| MODEL<br>350AST<br>SIZE |     | А      |                         | A WITH<br>BUTTERFLY |      | B<br>LESS GATE<br>VALVES |     | С     |     | D     |     | E<br>NRS GATE |     | E<br>OS&Y OPEN |      | E<br>OS&Y<br>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  | in.   | mm  | in.    | mm   |
| 21/2                    | 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 |

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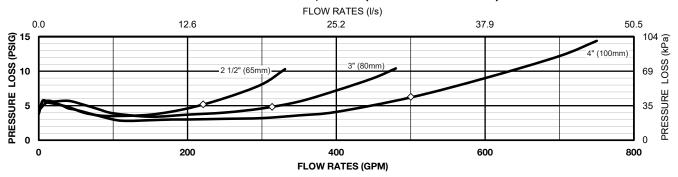
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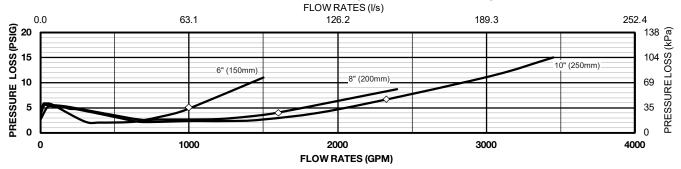
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### MODEL 350AST 2 1/2", 3" & 4" (STANDARD & METRIC)



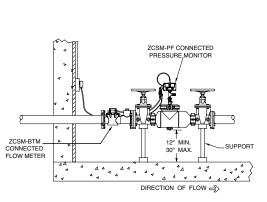
## MODEL 350AST 6", 8" & 10" (STANDARD & METRIC)

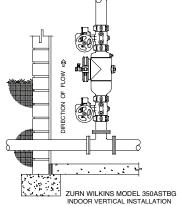


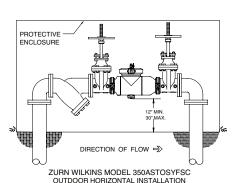
### **Typical Installation**

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.

| 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      |  |  |  |  |  |  |  |







INDOOR INSTALLATION

(350AST with ZCSM-PF Connected Pressure Monitor and ZCSM-BTM Connected Flow Meter accessories)

## **Specifications**

The Double Check Backflow Prevention Assembly shall be certified to NSF/ANSI/CAN 61, 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.