

SECTION 22 11 19 DOMESTIC WATER PIPING SPECIALTIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Double Check Valve Backflow Prevention Assembly.

1.2 REFERENCES

- A. ASSE 1015 – Performance Requirements for Double Check Backflow Prevention Assemblies.
- B. AWWA C510 – Double Check Valve Backflow Prevention Assemblies.
- C. AWWA C550 – Protective Interior Coatings for Valves and Hydrants.
- D. NSF/ANSI/CAN 61 – Drinking Water System Components – Health Effects.
- E. NSF/ANSI/CAN 372 – Drinking Water System Components – Lead Content.
- F. CSA B64.5 – Backflow Preventers.
- G. UL Classified.
- H. FM Approved.

1.3 SUBMITTALS

- A. Product data including rated flow, pressure loss characteristics, and dimensional data.
- B. Installation instructions.
- C. Certificates of Compliance with referenced standards.

1.4 QUALITY ASSURANCE

- A. Manufacturer shall have a minimum of five (5) years' experience producing backflow prevention assemblies.
- B. Products shall be listed, certified, or approved by the following:
 1. ASSE, AWWA, CSA, NSF/ANSI, UL, FM.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver components in manufacturer's original, unopened, labeled packaging.
- B. Store in a clean, dry space; protect from weather and construction activities.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Wilkins by Zurn Elkay Water Solutions

2.2 DOUBLE CHECK VALVE BACKFLOW PREVENTER

- A. Model: Zurn Wilkins Model 350AST
- B. Description:

1. Stainless steel body and access covers (304L).
 2. Internals: Stainless steel, 300 Series and NORYL™.
 3. EPDM seat disc and seal rings (FDA approved).
 4. Buna-N O-rings (FDA approved).
- C. Pressure Ratings:
1. Maximum working pressure: 175 psi.
 2. Maximum working temperature: 140°F.
 3. Hydrostatic test pressure: 350 psi.
- D. End Connections:
1. Grooved: AWWA C606.
 2. Flanged: ANSI B16.42 Class 150.
- E. Sizes: 2-1/2", 3", 4", 6", 8", 10"
- F. Options:
1. NRS gate valves (standard, flanged or grooved).
 2. OS&Y gate valves (flanged or grooved).
 3. Butterfly valves with integral supervisory switches (flanged or grooved).
 4. Strainer (FSC option, flanged only).
 5. Post indicator gate valves (PI).
- G. Accessories:
1. Pressure monitor (Model ZCSM-PF).
 2. OS&Y tamper switch (OSY-40).
 3. Thermal expansion tank (Model XT).

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Flush system inlet piping before installation
- B. Install in accordance with manufacturer's written instructions.
- C. Install horizontally or vertically as permitted by product listing.
- D. Provide minimum 12 inches (305 mm) and maximum 30 inches (762 mm) clearance from floor or drain to lowest point.
- E. Ensure unit is not subject to flooding or submersion.
- F. Allow sufficient side clearance for servicing and testing.

3.2 FIELD QUALITY CONTROL

- A. Test and commission per authority having jurisdiction.
- B. Submit test results for approval.

3.3 ADJUSTING AND CLEANING

- A. Flush system before testing.
- B. Clean exterior surfaces; touch-up damaged finishes.

END OF SECTION