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## **SECTION 40\_XX\_XX SILENT CHECK VALVE**

### **PART 1 - GENERAL**

#### **1.01 SUMMARY**

- A. Section Includes:
  - 1. Silent Check Valve
- B. Related Sections:
  - 1. (provided by the engineer)
  - 2. (provided by the engineer)
  - 3. (provided by the engineer)

#### **1.02 REFERENCES**

- A. ASME B16.42 Ductile Iron Pipe Flanges and Flanged Fittings
- B. ASME B16.5 Steel Pipe Flanges and Flanged Fittings
- C. AWWA C550 Protective Interior Coatings for Valves and Hydrants

#### **1.03 SUBMITTALS**

- A. (provided by the engineer)

#### **1.04 WARRANTY**

- A. Valves shall be warranted by the manufacturer for defects in materials and workmanship for a period of two years (24 months) from date of shipment.

### **PART 2 - PRODUCTS**

#### **2.01 GENERAL**

- A. (provided by the engineer)

#### **2.02 SILENT CHECK VALVE**

- A. Manufacturers: APCO CSC or pre-approved equal
- B. Design:
  - 1. Silent Check Valve shall be wafer or globe body style flanged and drilled per ASME B16 125/150 or 250/300 flange bolt circles
  - 2. General:
    - a. Flow area through the body shall be equal to or greater than the cross sectional area of the equivalent pipe size
    - b. Plug shall be center guided at both ends with a through integral shaft
    - c. Resilient seat shall be drip tight
    - d. Seat and plug shall be replaceable in the field for ease of maintenance
    - e. Spring must be a coil spring
- C. Materials:
  - 1. Body: Ductile Iron ASTM A536 Gr.65-45-12, Carbon Steel ASTM A216 WCB, or 316 Stainless Steel ASTM A743 or A351 CF8M

**APCO CSC (1-10") WAFER & (3-42") GLOBE  
SILENT CHECK VALVE  
SUGGESTED SPECIFICATION**

**APPLICATION DATA 600.01-1**  
Page 2 of 2  
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2. Seat: 316 Stainless Steel ASTM A743 or A351
  3. Resilient Seat: Acrylonitrile-Butadiene (NBR), Terpolymer of Ethylene Propylene and A Diene (EPDM) or Fluoro Rubber (FKM)
  4. Plug: 316 Stainless Steel ASTM A743 or A351
  5. Spring: 316 Stainless Steel ASTM A313
  6. Bushing: 316 Stainless Steel ASTM A213
  7. Seat Retaining Ball: 440 Stainless Steel

D. Testing:

1. Certified test reports shall be available upon request.

**PART 3 - EXECUTION**

**3.01 INSTALLATION**

- A. Install valves as specified in section (filled in by the engineer) and the manufacturer's instructions.
- B. (verbiage by engineer instructing how discharge piping should be installed)

**3.02 COMMISSIONING**

- A. Field testing (verbiage by engineer)