

SECTION 22 05 23  
GENERAL-DUTY VALVES FOR PLUMBING PIPING

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. General-duty valves for domestic water and sewer systems.

**1.2 RELATED WORK**

- A. Section 22 05 11, COMMON WORK RESULTS FOR PLUMBING.

**1.3 SUBMITTALS**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Manufacturer's Literature and Data:
1. Valves.
  2. Pressure Reducing Valves.
  3. All items listed in Part 2 - Products.

**1.4 APPLICABLE PUBLICATIONS**

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.
- B. American Society for Testing and Materials (ASTM):
- A536-84(R1999) E1.....Ductile Iron Castings
- C. National Association of Plumbing - Heating - Cooling Contractors (PHCC):
- National Standard Plumbing Code - 1996
- D. Manufacturers Standardization Society of the Valve and Fittings Industry, Inc. (MSS):
- SP-70-98.....Cast Iron Gate Valves, Flanged and Threaded Ends.
- SP-72-99.....Ball Valves With Flanged or Butt Welding For General Purpose
- SP-80-03.....Bronze Gate, Globe, Angle and Check Valves.
- SP-110-96.....Ball Valve Threaded, Socket Welding, Solder Joint, Grooved and Flared Ends
- E. American Society of Sanitary Engineers (ASSE):
- 1013-99.....Reduced Pressure Principle Backflow Preventers
- 1015-99.....Double Check Backflow Prevention Assembly

## **PART 2 - PRODUCTS**

### **2.1 VALVES**

- A. Asbestos packing is prohibited.
- B. Shut-off:
  - 1. Cold, Hot and Recirculating Hot Water:
    - a. Fifty millimeter (2 inches) and smaller:
      - 1) Ball, Mss SP-72, SP-110, Type II, Class 125, Style 1, three piece or double union end construction, full ported, full flow, with solder end connections, 2750 kPa (400 psi) WOG, MSS-SP-67.
- C. Check:
  - 1. Less than 100 mm (3 inches) and smaller): Bronze body and trim, swing type, MSS-SP-80, 850 kPa (125 pound) WSP.
  - 2. Larger than 100 mm (4 inches and larger):
    - a. Iron body, bronze trim, swing type, vertical or horizontal installation, flange connections, 1375 kPa (200 pound) WOG.

## **PART 3 - EXECUTION**

### **3.1 INSTALLATION**

- A. General: Comply with the PHCC National Standard Plumbing Code and the following:
  - 1. Install valves with stem in horizontal position whenever possible. All valves shall be easily accessible. Install valve in each water connection to fixture.
  - 2. Install union and shut-off valve on pressure piping at connections to equipment.

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