

**Bray Commercial**

Division of Bray Sales, Inc.

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SECTION 230923.11 – CONTROL VALVES**1.1 GENERAL**

Control valves assemblies shall be provided and delivered from a single manufacturer as a complete assembly. The manufacturer shall warrant all components for a period of 5 years from the date of production.

1.2 BALL-STYLE CONTROL VALVES

A. Manufactured, brand labeled and distributed by Bray.

B. 2 & 3-way Ball Valve with Characterizing Disc: NPS 2 in. (DN 50) and smaller

1. Materials:
 - a. Body: Forged brass
 - b. Ball: 300 Series Stainless steel
 - c. Seats/Seals: Graphite-Reinforced PTFE with EPDM O-Ring backing
 - d. Stem/Extension/Seals:
 - 1) Stem: 300 Series Stainless steel;
 - 2) Stem Seals: Double EPDM O-Rings
 - e. Characterizing Disc: AMODEL® AS-1145HS Polyphthalamide Resin
2. Piping Connections: female NPT or BSP Threaded
3. Media:
 - a. Hot Water, Chilled Water, Condenser Water up to 50% Glycol
 - 1) Standard Mounting: -22°F to 203°F (-30°C to 95°C)
 - 2) High Temperature Mounting: -22°F to 284°F (-30°C to 140°C)
 - b. 15 PSIG (103 kPa) Saturated Steam @ 250°F (140°C) for HVAC Systems
4. Performance:
 - a. Inherent Flow Characteristics:
 - 1) 2-Way: Equal percentage
 - 2) 3-Way: Equal Percentage Port A, Linear Port B (Bypass)
 - b. Pressure:
 - 1) Body:
 - a) Cold Working Pressure: 580 PSI (PN 40)
 - 2) Maximum Operating Differential:
 - a) 50 PSID Maximum Differential Pressure for Valves with Characterized Flow Control Disk and 30 PSI Maximum for Quiet Service Ball Valves
 - 3) Close-off rating
 - a) 200 psid (1379 kPa)
 - c. Leakage:
 - 1) 2-Way: CLASS IV
 - 2) 3-Way: 1% of Maximum Flow for Three-Way Bypass Port
5. Labeling: Valve body shall be furnished with a label containing the following data:
 - a. Manufacturer's name and model number
 - b. Body Pressure Rating
 - c. Trim
 - d. Cv