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. BALL-STYLE CONTROL VALVES
     + - 1. Manufactured, brand labeled and distributed by Bray.
         2. **2 & 3-way Ball Valve with Characterizing Disc: NPS 2 in. (DN 50) and smaller**

Materials:

Body: Forged brass

Ball: 300 Series Stainless steel

Seats/Seals: Graphite-Reinforced PTFE with EPDM O-Ring backing

Stem/Extension/Seals:

Stem: 300 Series Stainless steel;

Stem Seals: Double EPDM O-Rings

Characterizing Disc: AMODEL® AS-1145HS Polyphthalamide Resin

Piping Connections: female NPT or BSP Threaded

Media:

Hot Water, Chilled Water, Condenser Water up to 50% Glycol

Standard Mounting: -22˚F to 203˚F (-30˚C to 95˚C)

High Temperature Mounting: -22˚F to 284˚F (-30˚C to 140˚C)

15 PSIG (103 kPa) Saturated Steam @ 250˚F (140˚C) for HVAC Systems

Performance:

Inherent Flow Characteristics:

2-Way: Equal percentage

3-Way: Equal Percentage Port A, Linear Port B (Bypass)

Pressure:

Body:

Cold Working Pressure: 580 PSI (PN 40)

Maximum Operating Differential:

50 PSID Maximum Differential Pressure for Valves with Characterized Flow Control Disk and 30 PSI Maximum for Quiet Service Ball Valves

Close-off rating

200 psid (1379 kPa)

Leakage:

2-Way: CLASS IV

3-Way: 1% of Maximum Flow for Three-Way Bypass Port

Labeling: Valve body shall be furnished with a label containing the following data:

Manufacturer's name and model number

Body Pressure Rating

Trim

Cv