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 Flanged Ball Valve with Characterizing Disc: NPS 2-1/2 in. (DN 65) through NPS 4 in. (DN 100)

Materials:

Body: 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: EPDM O-ring

Characterizing Disc: AMODEL® AS-1145HS Polyphthalamide Resin

Piping Connections: Ductile Iron Flanges, ANSI Class 150

Media:

Hot Water, Chilled Water, 50/50 Glycol Solution

250 PSI at -20° to 100°F (29° to 38°C)

235 PSI at: 200°F (93°C)

218 PSI at: 284°F (140°C)

25 PSIG (172 kPa) Saturated Steam for HVAC Systems

Performance:

Inherent Flow Characteristics:

2-Way: Control port (A): Equal percentage;

3-Way: Equal Percentage Flow Characteristics of In-line Port or Linear Percentage Flow Characteristics of Angle Port

Media Temperature: -20℉ to 284℉ (-29℃ to 140℃)

Pressure:

Body:

ANSI Class 150

Maximum Operating Differential:

30 PSID (207 kPa) for quiet service

Close-off rating:

2-Way: 100 psid (689 kPa);

3-Way: 50 psid (345 kPa);

Leakage (A-AB):

2-Way: CLASS IV

3-Way: 1% of Maximum Flow, 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