

**Section 23 09 00 – INSTRUMENTATION AND CONTROL FOR HVAC**

23 09 13 Instrumentation and Control Devices for HVAC

13.33 CONTROL VALVES

A. Characterized Control Valves:

1. NPS 2 and Smaller: Forged brass body rated at no less than 580 psi water, 15 PSIG steam, stainless steel ball and stem, female NPT end connections with a dual EPDM O-ring packing design, graphite reinforced Teflon seats, and an Amodel characterizing disc. Maximum fluid temperature rating 284<sup>0</sup>F.
2. NPS 2-1/2 through 4: Brass body with ductile iron flanges according to ANSI 125/150, class B, rated at 250 psi water, 25 psi steam, stainless steel ball and stainless steel stem, flange to match ANSI 125/150 with a dual EPDM O-ring package design, PTFE seats, and an Amodel characterizing disc. Maximum fluid temperature rating 284<sup>0</sup>F.
3. NPS 5 & 6: Brass body with ductile iron flanges according to ANSI 125/150, standard class B, rated at 240 psi, stainless steel ball and stainless steel stem, flange to match ANSI 125/150 with a dual EPDM O-ring package design, PTFE seats, and a stainless steel flow characterizing disc. Maximum fluid temperature rating 250<sup>0</sup>F.
4. Flow Characteristic: Equal percentage.
5. Leakage: ANSI Class IV (0.01%)
6. Manufactured or distributed by Bray or equal.