23 2213  Steam and Condensate Piping and Pumps within buildings

1) High pressure steam and condensate valves shall be Class 150 SWP cast steel and stamped for high-pressure steam application.
   A) Flange valves OS & Y (required for 2” and larger, optional for 1-1/2” and smaller) shall be Crane, Velan or approved equal.
   B) Threaded valves 1-1/2” and smaller shall be 800# forged steel, rising stem, bolted bonnet.
2) Owner may require the Contractor to verify and assure the quality of all steam pipe welds by performing x-ray testing on 10 percent of all welded connections as determined by Owner.
   A) If failures are detected, Owner reserves right to have all welded connections inspected.
3) Provide a clear access to all valves.
4) Install pressure regulators with manual bypasses at mechanical entrances of high pressure steam distribution lines.
   A) Use parallel pressure reducing stations where large fluctuations in steam use is anticipated or where steam use is critical.
5) Duplex electric condensate pumps with sight glass.
6) Install drip traps before all thermostatic temperature regulating valves and pressure reducing valves, and at line's end.
7) Install strainer upstream from all steam traps. Strainer to be fitted with manual blow-down valve.
8) Condensate return lines shall be only extra strong, black, genuine wrought iron.