1. **SCOPE**

This specification covers pressure reducing valves of the water tight, globe style bodies with flange bodies in sizes of 1-inch through 36-inch. Pressure ranges will be noted on the project plans or in purchase orders.

2. **GENERAL REQUIREMENTS**

   a) Valves furnished under this specification shall be manufactured by one of the following or approved equal.

      Cla-Val
      GA Industries
      Watts Singer
      Bermad 720

   b) Valves shall be class 150 lb. (unless otherwise noted).

   c) The valve furnished shall be cast iron globe body. Material for the valve body shall be in accordance with ASTM A-126B.

   d) The valve shall have flanged ends. Flanges shall be faced and drilled in accordance with the latest revision of ASTM B16.1.

   e) The main valve seat shall be provided with v-notch port sections.

   f) All internal removable working parts shall be bronze.

   g) The valve shall be repairable without removing the valve body from the line.

   h) Valves shall be solenoid controlled or diaphragm operated, hydraulically actuated and shall be heavy-duty waterproof construction in a NEMA IV enclosure.
i) The valve shall have an indicator rod that is an integral part of the valve to show the position of the diaphragm within the valve body. Valves shall be equipped with speed controls for regulation the speed of opening and closing.

j) The valve shall have a SPDT limit for both open and closed positions to perform the functions as indicated on the electrical plans or as otherwise indicated on the drawing.

k) All materials of construction must be certified in writing to A.S.T.M. Specifications as follows:

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<tr>
<th>Body</th>
<th>All Accepted and Approved</th>
<th>Ductile Iron ASTM A536</th>
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<td></td>
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<td>Cast Steel ASTM A216 WCB</td>
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<td>Cast Iron ASTM A136 GR.B</td>
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<td>Al. Bronze ASTM B148 C95200</td>
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l) Sealing Element Buna-N
m) Torsion Spring T316 stainless Steel
n) Hinge Shaft T316 Stainless Steel
o) Stop Shaft- T316 Stainless Steel
p) Exterior Paint – Epoxy Primer

Valves shall be ANSI/NSF Standard 61 certified.

The bidders shall submit with the proposal three sets of certified drawings showing the principal dimensions, general construction and material specification for each valve proposed.

Previous Specification
MAY 1999
FEBRUARY 2003
DECEMBER 2011