

## Golf Course Service Specifications

The Golf Course industry requirements for strong, sturdy maintenance-free valves are critical to the operation of the Golf Course. Corrosion is a real concern for many irrigation installations and high quality valves are the best solution for flow isolation in irrigation piping systems. NIBCO valves use optimum materials to protect the valves from failure due to corrosion or dezincification, problems often encountered with foreign yellow brass.

### Isolation Valves 3" and Smaller

#### Gate Valves:

**Non-Rising Stem:** Valves shall be class 125 and 200 PSI CWP, non-rising stem, screw-in bonnet, solid wedge and USA produced in accordance with MSS SP-80. Body, bonnet, external stuffing box and wedge are to be of Bronze ASTM B 62. Stems shall be of dezincification-resistant silicon Bronze ASTM B 371 or low-zinc alloy B 99, non-asbestos packing and malleable or ductile iron handwheel. For buried service — Bronze Cross or Bronze handwheel required. Valve ends shall be threaded type.

#### Acceptable Valves:

200 PSI CWP NIBCO T-113-K (Bronze Cross H/W) (¾" thru 3")  
 200 PSI CWP NIBCO T-113-BHW (Bronze H/W) (¼" thru 3")  
 200 PSI CWP NIBCO T-113 (MI H/W) (¼" thru 3")

#### Globe/Angle Valves:

Valves shall be Class 125 and 200 PSI CWP, body and bonnet are to be of Bronze ASTM B 62 and USA produced in accordance with MSS SP-80. Stems shall be of dezincification-resistant Silicon Bronze ASTM B 371 or Low-Zinc Alloy B 99, non-asbestos packing, PTFE seat disc and malleable or ductile iron handwheel. For buried service — Bronze Cross handwheel required. Valve ends shall be threaded type.

#### Acceptable Valves:

200 PSI CWP NIBCO globe/angle T-211-YK/T-311-YK (Bronze Cross H/W) (1" thru 2")  
 200 PSI CWP NIBCO globe/angle T-211-Y/T-311-Y (MI H/W) (¼" thru 3")

#### Ball Valves:

Valves shall be Class 150 and 600 PSI non-shock CWP and USA produced in accordance with MSS SP-110. Two-piece cast bronze bodies, PTFE seats, full port or reduced port on 2½" and 3", separate packnut with adjustable stem packing, anti-blowout stems. Stainless steel ball, handle and nut or chrome plated ball and steel handle. Valve ends shall have full depth ANSI threads.

#### Acceptable Valves – Full Port:

Class 150 NIBCO T-580-70-66 (SS ball and handle) (¼" thru 2")  
 Class 150 NIBCO T-585-70 (Chrome plated ball and steel handle) (¼" thru 2")

#### Acceptable Valves – Reduced Port:

Class 150 NIBCO T-580-70-66 (SS ball and handle) (2½" and 3")  
 Class 150 NIBCO T-580-70 (Chrome plated ball and steel handle) (2½" and 3")

### Isolation Valves 2" and larger

#### Gate Valves:

##### Non-Rising Stem:

**Resilient Wedge Design:** Valves shall be 200 PSI CWP and USA produced, valve body and bonnet designed and tested to meet AWWA C 509. Body and bonnet are to be of Cast Iron Alloy ASTM A 126 Class B or Ductile Iron ASTM A 536. Valve to be epoxy coated inside and outside. Two upper O-ring stem seals. Sealed counter sunk body bonnet bolts providing no exposure of bonnet bolts. Stems to be stainless steel. Resilient rubber encapsulated wedge. Cast iron 2" square operating nut. Valve ends shall be IPS PVC push-on joint, flanged-type or mechanical joint-type.

#### Acceptable Valves: