

### **RECOMMENDED SPECIFICATIONS FOR BRAY SERIES 30/31 VALVES**



#### **Valve Type:**

- **Bray Series 30 wafer or Series 31 lug or approved equal.**

#### **Body:**

- Shall be one piece wafer or lug design with extended neck to allow for 2" of piping insulation.
- Material shall be polyester coated cast iron
- Flange hole drilling per international flange standard as specified.
- A non-corrosive bushing and a self-adjusting stem seal shall be provided. No field adjustment shall be necessary to maintain optimum field performance.

#### **Disc:**

- Disc edge and hub on metal discs shall be spherically machined and hand polished for minimum torque and maximum sealing capability.

#### **Stem:**

- Shall be a one-piece design.
- Disc to stem connection shall be an internal double "D" design with no possible leak paths in disc-to-stem connection. External disc-to-stem connections such as disc screws or pins are not allowed.
- Stem shall be mechanically retained in body neck and no part of the stem shall be exposed to line media.

#### **Seat:**

- Shall be tongue-and-groove seat with a primary hub seal and a molded O-ring suitable for weld-neck and slip-on flanges.
- The seat shall totally encapsulate the body isolating it from the line media and no flange gaskets shall be required.

#### **Pressure Ratings:**

- Valve shall be rated for bi-directional tight shut-off at full pressure rating.
- Valve shall be tested to 110% of the full pressure rating.

- **Bi-directional (With downstream flanges and disc in closed position):**

#### **All Series 30 and Series 31 Valves (with Standard Disc):**

2"-12" (50mm-300mm)

175 psi (12 Bar)

14"-20" (350mm-500mm)

150 psi (10.3 Bar)

- **Dead-End Service (No downstream flanges and disc in closed position):**

#### **All Series 31 Valves (with Standard Disc):**

2"-12" (50mm-300mm)

75 psi (5.2 Bar)

14"-20" (350mm-500mm)

50 psi (3.4 Bar)