

**BRAY RECOMMENDED SPECIFICATIONS**

## Series 20/21 Resilient Seated Valve

**Valve Type:**

**Bray Series 20 wafer or Series 21 lug or approved equal.**

**Body:**

- Shall be two-piece wafer or lug design with extended neck to allow for 2" of piping insulation.
- Flange locating holes shall be provided on wafer bodies to allow for quick and precise alignment during valve installation.
- 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-Stem:**

- Shall be of one-piece, high capacity design.
- No part of the stem shall be exposed to the line media.
- If a PTFE or rubber-covered disc-stem is required, the entire disc base material must be encapsulated with no part of the disc or stem exposed to the line media.
- Disc edge and hub on metal discs shall be spherically machined and hand polished for minimum torque and maximum sealing capability.

**Seat:**

- Shall be tongue-and-groove seat with a primary hub seal and a molded flange 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.

**Testing:**

- Valve shall be tested to 110% of the rated pressure.

**Pressure Ratings:**

Valve shall be rated for bubble-tight shut-off at pressure rating shown below.

**Bi-directional Service**

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

**All Resilient Seated Series 20 and Series 21 Valves (with Standard Disc):**

- Metal Disc-Stem 1"-20" (25mm-500mm)  
150 psi (10.3 Bar)
- Resilient Molded Disc 2"-20" (50mm-500mm)  
100 psi (7.0 Bar)

**All PTFE Seated Series 20 and Series 21 Valves (with Standard Disc):**

- Metal Disc 2"-20" (50mm-500mm)  
150 psi (10.3 Bar)
- PTFE Molded Disc 2"-20" (50mm-500mm)  
100 psi (7 Bar)

**Dead-End Service**

**(No downstream flanges and disc in closed position):**

**All Series 21 Valves:**

- 1"-12" (25mm-300mm) 75 psi (5.2 Bar)
- 14"-20" (350mm-500mm) 50 psi (3.4 Bar)

**Approvals & Certifications:**

- CE/PED Certification
- NSF/ANSI 61-2008 Certification (Potable Water)
- SIL Certification
- ABS Certification
- Bureau Veritas Certification
- DNV