

## BRAY RECOMMENDED SPECIFICATIONS

# Series 30/31 Resilient Seated Valve

### 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.
- 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:

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

### Stem:

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

### Seat:

- Shall be tongue-and-groove seat with a primary hub seal and a molded flange O-ring 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 30 and Series 31 Valves (with Standard Disc):

- 2"-12" (50mm-300mm) 175 psi (12.0 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)

### Approvals & Certifications:

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