

### VALVE DETAILS

- > Series 3W/3L Resilient Seated Butterfly Valve
- > Wafer | Lug
- > NPS 2 to 24 | DN 50 to 600
- > Bray Series 3W Wafer or Series 3L 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 precision machined and polished to minimize torque and maximize sealing capability.

### STEM

- > Shall be one-piece design to maximize disc support and strength.
- > 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

- > The rubber seat shall be directly molded into the valve body for optimum performance and a long cycle life.
- > The seat shall totally encapsulate the body isolating it from the line media.
- > No flange gaskets shall be required.
- > Seat flange face design shall be tear drop shaped to provide maximum sealing surface to mate with many flange types and materials.
- > Lug style design must allow for sealing at full rated pressure with the downstream flange removed.
- > During valve installation and flange tightening, seat design must allow disc to be in the closed position without any performance concerns.

### BEARINGS, BUSHINGS, AND STEM SEALS

- > Provided with top and bottom stem bearings consisting of a steel/bronze shell with a self-lubricating PTFE bearing surface.
- > A non-corrosive bushing and a self-adjusting stem seal shall be provided.
- > No field adjustment shall be necessary to maintain optimum field performance.



### **APPROVALS AND CERTIFICATIONS**

- > CE/PED
- > ANSI/NSF 61/372
- > EC1935
- > FDA Food Contact Approved
- > ABS Type Approved
- > Bureau Veritas Type Approved

### **VALVE ACTUATOR MOUNTING PAD**

- > ISO 5211

### **TESTING**

- > Manufactured, assembled, and tested in compliance with a written ISO 9001 quality assurance program.
- > Valve shall be shell tested to 1.5x rated pressure.
- > Valve shall be leak tightness tested to 1.1x rated pressure.

### **PRESSURE RATINGS**

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

### **BI-DIRECTIONAL**

- > High Pressure Disc
  - NPS 2 to 24 | DN 50 to 600
  - 250 psi (17.2 bar)
  
- > Standard Disc
  - NPS 2 to 12 | DN 50 to 300
  - 175 psi (12 bar)
  
  - NPS 14 to 24 | DN 350 to 600
  - 150 psi (10.3 bar)
  
- > Low Pressure Disc
  - NPS 2 to 24 | DN 50 to 600
  - 50 psi (3.4 bar)

### **DEAD-END SERVICE (LUG BODY ONLY WITH DOWNSTREAM FLANGE REMOVED)**

- > High Pressure Disc
  - NPS 2 to 24 | DN 50 to 600
  - 250 psi (17.2 bar)
  
- > Standard Disc
  - NPS 2 to 12 | DN 50 to 300
  - 175 psi (12 bar)
  
  - NPS 14 to 24 | DN 350 to 600
  - 150 psi (10.3 bar)
  
- > Low Pressure Disc
  - NPS 2 to 24 | DN 50 to 600
  - 50 psi (3.4 bar)