SERIES 30, 31 BUTTERFLY VALVES  
RECOMMENDED SPECIFICATION SHEET

VALVE DETAILS
> Series 30/31 Resilient Seated Butterfly Valve
> Wafer | Lug
> NPS 2 to 20 | DN 50 to 500

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.
> The only internal wetted parts of the valve should be the disc and seat.

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.
> Stem shall not be a wetted part.

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.
> Seat shall be peroxide cured to prevent oxidation on seat surface to ensure low torques through life of the valve.

PACKING AND BEARINGS
> 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 Certification
> NSF/ANSI 61 and 372
> SIL
> ABS
> Bureau Veritas
> DNV

VALVE ACTUATOR MOUNTING PAD
> ISO 5211

TESTING
> Manufactured, assembled, and tested in compliance with a written ISO 9001 Quality Assurance Program.
> 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
Standard Disc
> NPS 2 to 12 | DN 50 to 300
  - 175 psi (12.0 bar)
> NPS 14 to 20 | DN 350 to 500
  - 150 psi (10.3 bar)

DEAD-END SERVICE (LUG BODY ONLY WITH DOWNSTREAM FLANGE REMOVED)
Standard Disc
> NPS 2 to 12 | DN 50 to 300
  - 75 psi (5.2 bar)
> NPS 14 to 20 | DN 350 to 500
  - 50 psi (3.4 bar)