

Aquaseal 25 Integrally-moulded Butterfly Valve - PN 25



Aquaseal 25 Integrally-moulded Butterfly Valve is a customised second generation valve that addresses requirements of higher pressures systems.

The wafer-type valve is available in sizes from 50 mm (2") to 200 mm (8") - in SG Iron and carbon steel, with nitrile rubber and EPDM elastomer options. The liners of Aquaseal 25 Butterfly Valve is vulcanised insitu onto the body, which provides longer life and superior performance when compared to valves with loose liners.

Compliance Standards

Parameter	Standard
Valve Design	EN 593 (BS 5155), API 609 Cat A, MSS SP-67
Pressure Testing	EN 12266 Part 1&2, API 598, ISO 5208
End Connection	Wafer Flangeless, Lugged (EN 1092), ASME B16.42 & ASME B16.5 Class150, BS 4504 PN 10/16, ASME B 16.47 Series A & B, AWWA C 207 Class E
Face-to-Face	EN 558 Series 20, API 609 Cat A, MSS SP-67 (Narrow Body), ISO 5752 (Short)

Materials of Construction

Components	Materials
Body	SG Iron EN 1563-400/ 18, Carbon Steel A 216 Gr. WCB
Seat/ Liner	Nitrile Rubber
Disc	SG Iron EN 1563-400/ 18 with Nylon-coating, Stainless Steel A351 CF8, CF8M to A 351
Shaft	ASTM A479 Type 410
Bearing	Acetal, PTFE, Phosphor Bronze

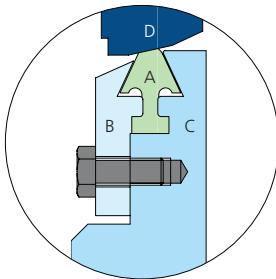
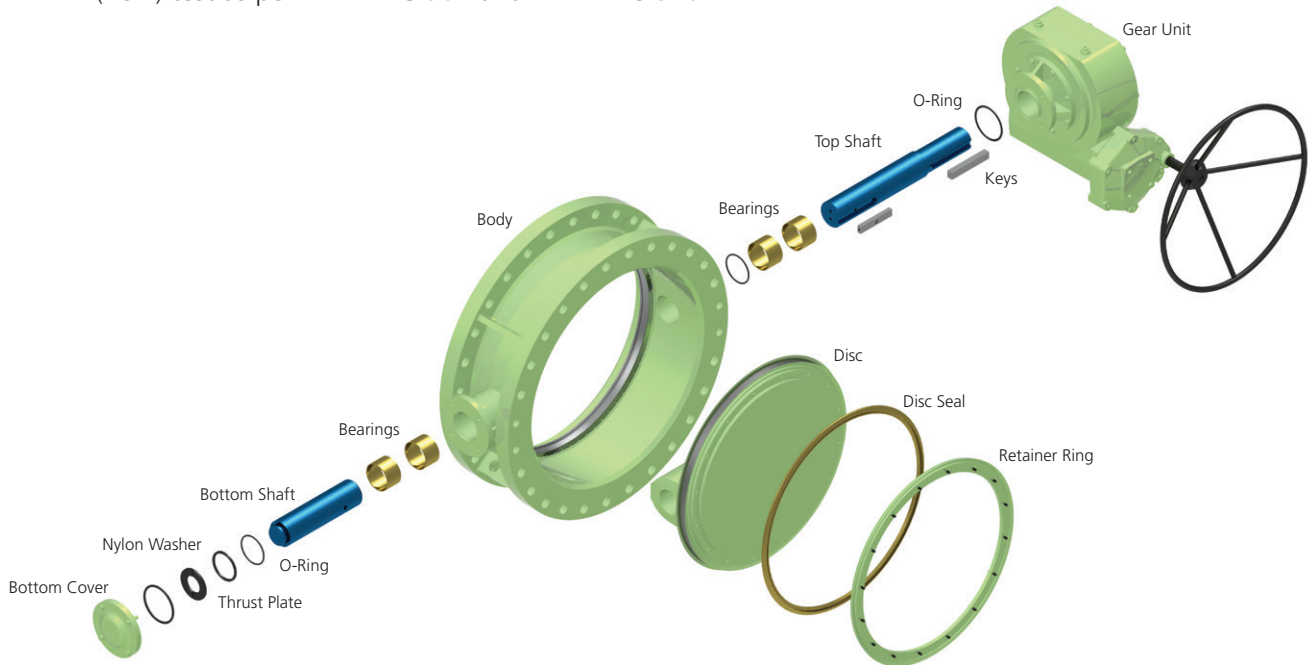
Pressure Rating

Rated Working Pressure (bar)	25
Shell Test Pressure (bar)	37.5
Seat Test Pressure (bar)	27.5

Valves in other materials available on demand.

Aquaseal Max Large-size Fabricated Steel Butterfly Valve

Aquaseal Max is a fabricated steel butterfly valve developed as an ideal alternate for cast iron butterfly and sluice valves in water distribution systems. The highly reliable valve also finds application in power plants, utility and fire water lines, and HVAC systems. Customised Aquaseal Max can be used to handle air, gases and vacuum services. The valve has successfully undergone Proof of Design (POD) test as per AWWA C 504 and AWWA C 516.



Self-energising Disc Seal

The most unique feature of Aquaseal Max is Autoseal (A), a self-energising disc seal that performs consistently over a wide range of pressures without any adjustment. A retainner ring (B) bolted directly to the disc (C) holds the resilient Autoseal in place. In closed position, line pressure forces Autoseal against the body seat (D) to obtain bi-directional bubble-tight sealing.

Benefits of Autoseal

- High integrity sealing, Aquaseal Max is suited for vacuum services
- Lower break torque - Saving in valve automation costs
- Easy to replace at site

Lighter and Stronger Construction

Aquaseal Max body, fabricated from carbon steel plates, has better mechanical and structural properties compared to a cast iron body of the same size and pressure rating. The body also handles piping stresses and misalignments better. Being lighter, the valve is easier to handle, and requires less piping supports, and thus reduces valve installation cost considerably.

Assured Sealing to Atmosphere

Double O-Rings on the shaft provide reliable sealing to atmosphere. Unlike gland packing, this arrangement does not require any maintenance.

Lower Torque, Longer Life

The shaft is offset from the seat plane to provide uninterrupted seating surface through 360 degrees. The offset also ensures that disc loses contact with the seat at crack open, and thereby reduces friction and operating torque.

Maintenance-free Bearings

Self-Lubricated bearings are provided on the shafts.