LINED BUTTERFLY VALVES

ABRASION AND CORROSION RESISTANCE

FluoroSeal® Lined Butterfly Valves are highly recommended for abrasive and corrosive applications. Used as control and on-off valves, they provide bubble-tight seal in vacuum to 150 PSI conditions, however corrosive your line medium.

Lined butterfly valves are successfully employed in the semiconductor, chemical, petrochemical, mining, pulp and paper and oil and gas industries, among others, outperforming other types of valves where highly corrosive gas, liquid, slurry or powder is used.

EASE OF OPERATION

FluoroSeal® Lined Butterfly Valves can be supplied with a wide selection of actuation mechanisms: lever operators and FluoroSeal® gears are the standard actuation available. Automated actuation is available upon request.

SUPERIOR FEATURES

FluoroSeal® Lined Butterfly valves are packed with innovative features. The two-piece body is precision cast and coated with protective primer and paint to inhibit corrosion, should the body be exposed to spills or an otherwise corrosive environment. A virgin PTFE lining protects the inside surface of the body and extends onto the flange area.

The disk is a fully PFA encapsulated one-piece design, with the precision molded lining locked-in around the metal disk core. Virgin PTFE and PFA is used to enable a visual indication of any defects. The slim design of a butterfly valve allows for a high Cv value.

A cast-on top flange pad allows for ISO mounting of actuation most suited for the size and application.

Four (4) step stem sealing is achieved through the use of a mechanical system composed of four Belleville washers, a grade 304 stainless steel pusher plate and silicone o-rings and back liner. Identical sealing systems are used at the top and bottom of the disk, allowing for a bubble-tight seal throughout the valve.

Self-lubricating, bronze and PTFE faced stainless steel bearings exert an even pressure on four (4) Belleville washers, which in turn transfer the pressure to the pusher plate. This specially designed plate exerts pressure on the silicone back liner and the PTFE lining of the valve body, compressing both against the disk and ensuring a complete seal around the stem. Furthermore, the pusher plate is profiled to contain two silicone o-rings, both responsible for maintaining a proper seal at the stem level.
**LINED BUTTERFLY VALVES**

**DESIGN FEATURES SUMMARY**

1. Cast-on flange for ISO mounting of actuation
2. Two-piece body design
3. Belleville washers maintain constant pressure on the body lining
4. Locked-in PFA liner fully encapsulates the disk
5. Proprietary design of pusher plate
6. Silicone o-rings maintain stem seal
7. Back liner provides resilience to PTFE body liner, ensuring bubble-tight seal

**AVAILABILITY**

Designed to perform leak-free in pressures from vacuum to 150 PSI, FluoroSeal® Lined Butterfly Valves are available in sizes from 2" (DN 50) to 12" (DN 300). The body is available in wafer and lug design.