

# posi-flate® butterfly valves

## Series 470 High Temperature Butterfly Valve

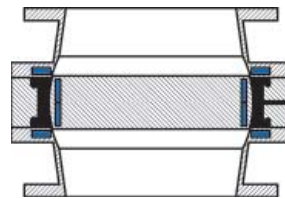


The Posi-flate Series 470 valve features a liquid cooled disc and flanges to keep the elastomer seat cool. Together the flanges and the disc fully encapsulate the seat in the closed position protecting it from the hot material. The application will determine which of these components need to be cooled. The cooling fluid is directed through the housing to the disc, flows around the disc edge and comes out the other end. The flanges have internal cooling passages with their own individual cooling ports.

Standard sizes range from 2" to 16". The valve materials can be customized to give the best value and performance for an application.

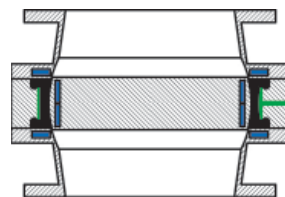
### How it works

Cooling fluid flows through passages in the disc and flanges adjacent to the seat. This keeps the seat cool and prevents degradation of the elastomer.



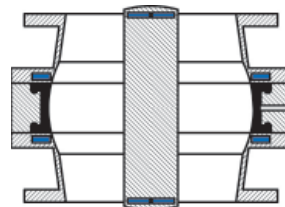
#### ***Closed, unsealed***

As the valve rotates into the closed position, the disc makes only casual contact with the seat, reducing friction, wear and torque requirements.



#### ***Closed, sealed***

After the valve is closed, the seat inflates against the disc providing more sealing surface and an even pressure distribution against the disc.



#### ***Open, unsealed***

Before the valve opens, the seat is first deflated. The disc is then free to rotate to the open position.

The Posi-flate Series 470 High Temperature Butterfly Valve is an elastomeric seated valve capable of providing a bubble-tight seal at temperatures up to 650° F and pressures up to 200 psi.

The valve features Posi-fate's unique inflatable seat. This seat uses air pressure to expand the seat against the disc, providing even pressure distribution for a bubble tight seal. The seat makes only casual contact with the disc during opening and closing, eliminating the wear caused by impingement style valves. Substantially less torque is required to open and close the Posi-flate valve compared to other high temperature valves, resulting in a more compact size and lower overall cost.

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#### **Corporate Headquarters**

Posi-flate • St. Paul, MN USA • +1 651 484-5800

#### **Worldwide Offices**

Brazil • China • United Kingdom

[www.posiflate.com](http://www.posiflate.com)