

# XOMOX<sup>®</sup>

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## Tuflin<sup>®</sup> High Performance Butterfly Steam Traced Jacketed Valves

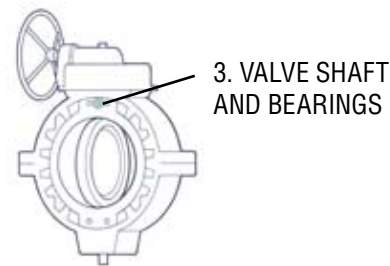
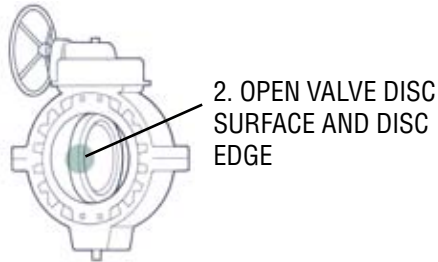
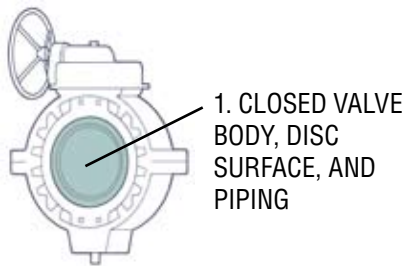
**CRANE**<sup>®</sup>

ChemPharma Flow Solutions

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# STOP SULFUR BUILD-UP

**SULFUR CAN SOLIDIFY IN A STEAM JACKETED VALVE IN THESE THREE CRITICAL AREAS.**



## **Tufline's STJ HPBV Provides the Solution!**

*Xomox products are used in numerous applications with a wide variety of service conditions. While general guidelines are often furnished, it obviously is not possible to provide complete and specific performance data for every conceivable service condition. Therefore the end user must assume final responsibility for proper evaluation, applications and performance of Xomox products for any and all specific uses.*

*Insofar as possible, every effort has been made to ensure that the information contained herein was correct at the time of printing. Products may differ as a result of the company policy of continuous product improvement.*

## **Sulfur build-up is more likely with a conventional clamp-on jacket resulting in valve failure.**

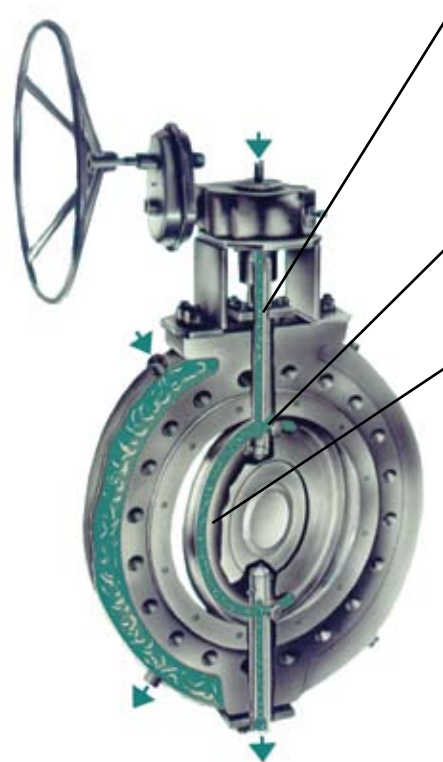
Add-on jackets often have air spaces (cold spots) between the jacket and the valve body. These cold spots can allow media to solidify and accumulate.

Shafts and discs are far from the heat source, so media buildup is prevalent on these surfaces. Conventional jacketing is grossly inefficient because of poor heat transfer.

The Tufline HPBV-STJ offers triple-point prevention of media solidification in the shaft and bearings, the valve body and the disc.

Most other valves have only a partial, clamp-on jacket. A few competitor valves have stem heating devices. But Tufline HPBV-STJ offers patented, innovative designs for both valve stem and body.

Most important of all, Tufline HPBV-STJ offers steam circulation through the full perimeter of the disc.



The shaft of any valve is especially vulnerable to media build-up. Even a small amount of flow material solidifying on the bearing surface can cause binding and wear. With the unique Tufline HPBV-STJ design, steam flows directly through the stem, fully heating the bearing area. Optional purge and sealed-bearing configurations are also available.

There is a welded interface between the shaft inlet and disc passage forming a single, integral unit, so there is no chance for steam to leak into the piping system.

A small amount of media accumulation on the disc edge can prevent closing and opening of the valve. Media build-up on the surface of the disc can alter its flow control characteristics. Tufline HPBV-STJ successfully addresses this problem. This patented design channels the continuous steam flow from the top shaft, around the full perimeter of the disc, and out the bottom shaft.

Tufline HPBV-STJ's integrally fabricated steam jacket produces a far higher heat-flow coefficient than any competitor steam jacket. This design assures direct steam contact around the perimeter and over the full width of the valve body. This smooth and unbroken flow path has a 200% greater steam contact area than nearly all competitor designs. The integral unit installs quickly and economically. There is no chance for assembly errors in the field and there is no need for messy thermal contact cement.

Three specific U.S.A. patents have been issued based on this design (4559967, 4418889, and 4289296). A number of international patents have been issued and others are pending.

## Tufline High Performance Butterfly Steam Traced Jacketed Valves.

### Unique Features in a wide range of configurations and options.

- Sizes 6" through 48"
- ASME B16.34 Class 150, 150DR 300, and 600
- Integral, full-body steam jacket
- Integral steam tracing of shafts and disc circumference
- Optional NACE trim
- Optional bearing purge (steam or alternate media)
- Optional sealed bearings
- Optional double-packed stems with lantern rings
- Optional fire tested and high-temperature seat designs

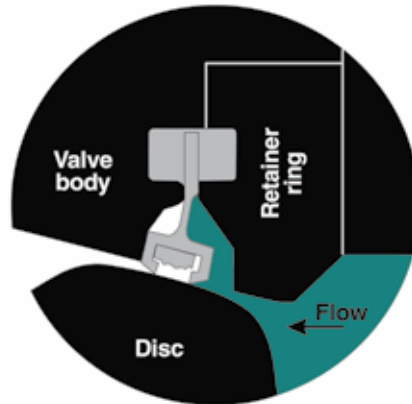
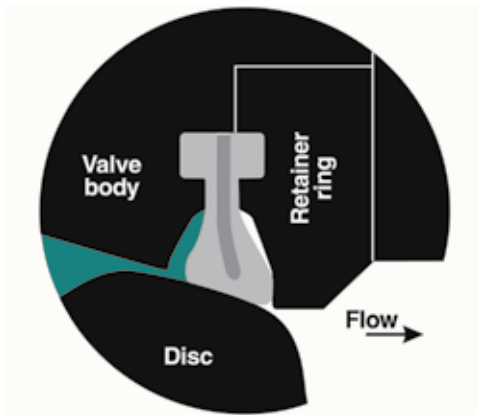


### The One Built to Do the Full Job.

Tufline HPBV-STJ's offer a full 3-point valve heating system including the stem, body, and disc. This is a must for processing sulfur or other agglomerating media (any material that must be kept above a particular temperature to avoid solidification). Why settle for a valve that offers only one-third or two-thirds the protection? Only Tufline HPBV-STJ's complete, 3-point valve heating system is appropriate in these critical applications.

### Other Tufline HPBV-STJ's Features

This brochure concentrates on the advantages of HPBV-STJ adapted specifically for desulfurization applications. There are a host of other unique HPBV-STJ features such as the patented axially pliant, standard and fire tested seat designs, as well as the offset and eccentrically mounted disc.



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