



## *Protect Your Lined Pumps, Heat Exchangers and Other Lined Equipment*

### **Synopsis**

*The Flowserve T-Line Strainer provides a means of removal and collection of solids in harsh and corrosive fluid process streams.*

### **Recommendations**

*A T-Line Strainer placed up stream from pumps, heat exchangers and lined equipment can eliminate costly damage. Solids in a fluid stream can decrease productivity and cause downtime.*

### **Situation**

Users that operate equipment in highly corrosive services such as hydrochloric acid, sulfuric acid, hydrofluoric acid, waste acids, acid brine, etc. may experience unexpected wear or catastrophic failure of lined equipment due to unwanted solid material getting into the process stream. Process upsets and upstream equipment failures can often lead to a chain of downstream equipment damage from released solids and foreign materials that enter pumps, control valves, heat exchangers and other critical equipment. Equipment may be especially vulnerable during system start-ups immediately following a plant turnaround or shutdown where there are frequent opportunities for foreign material to enter the system in the course of maintenance and repair.



*Strainer installation*



*Basket with captured debris*

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Removal of strainer lid



Removal of basket

### Solutions

Extend the life of your equipment by protecting it from possible damage. The Flowserve T-Line Strainer has been specifically designed to handle corrosive services. The strainer's solid one-piece lining is available in either PFA or ETFE to maximize chemical resistance. The external surfaces of the strainer are epoxy coated to extend life in severely corrosive atmospheres. The continuous service temperatures range from -29°C (-20°F) to 149°C (300°F) in ETFE and to 204°C (400°F) in PFA.

The strainer is available in 80 mm (3 in) through 200 mm (8 in) 150 lb ANSI flange sizes. All sizes include a 50 mm (2 in) flanged drain connection. Furthermore, special drilling orders for flanged connections can be accommodated to meet specific requirements.

The one-piece removable basket is made of solid PTFE and is available in 3.2 mm (1/8 in) to 25 mm (1 in) particle size retention. The baskets can be replaced and interchanged to accommodate process condition changes. Operators might choose to use a basket having one size of strainer holes during start-up of a new system and then change to a basket having a more appropriate size for normal process conditions.

*For more information regarding this subject, contact your local Flowserve representative and reference **TSB003**.*



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