

SAFEPLEX SYSTEMS, INC.

SYSTEMS, PRODUCTS, SERVICES, INTEGRITY

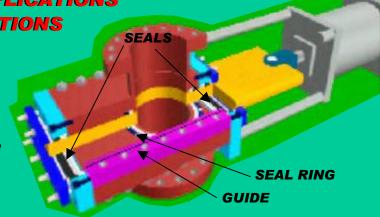
SILvalve-3 ---- A Unique Valve

- •FOR NORMALLY CLOSED ESD VALVE APPLICATIONS
- •FOR HIGH PRESSURE DROP APPLICATIONS
- •FOR BI-DIRECTIONAL APPLICATIONS
- •FOR DIRTY STREAM APPLICATIONS

•FOR POLYMER APPLICATIONS

DESCRIPTION

The basic concept of the SILvalve-3 design is very Simple --- three plates of steel! The outer two plates serve as the flange plates and the center plate is the modulating plate, called the O-Port Plate.



The seals are located on the inside of the flange plates. Both sets of seals are pressed against the O-Port plate at all times. This unique seal arrangement allows the SILvalve-3 to be use for bi-directional flow applications. Because the seals are 1 inch away from the edge of the plate orifice, gouging from pressure drop or in-stream abrasives has to exceed 1 inch before breaching the valve's seals.



Because the plates have only a 30mm separation, there are no edges for compounds such as polymers to gather and buildup within the valve body. Additionally, the SILvalve-3 does not have traditional seats. Likewise the act of closing the valve does not built up material within the valve's body.

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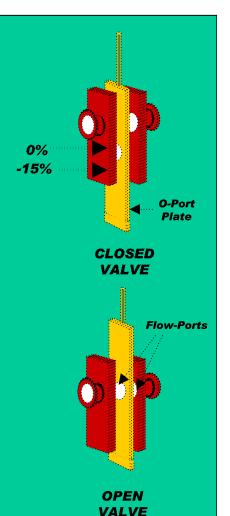


SILvalve-3 ---- A Unique Valve

- PST IN THE "CLOSE" POSITION
 - •TRAVEL 0% to (-15%)
 - **•NEVER OPENS DURING PST**

SafePlex's SILvalve-3 supports partial stroke testing of a 'closed' ESD valve. This is particularly useful for vent and flare block valve applications. For the first time a closed block valve can be partial stroke tested without venting or flaring. Because of the SILvalve-3 "Open Body" design, the O-Port Plate can go pass 0% (the closed position) to a negative 15% position. This allows for movement of the O-Port Plate without opening the valve.

Not like standard valves, the high pressure drop during the release does not damage the "seats" because there are no seats! Flow-Port gouging is mitigated until the gouging reaches a depth of 1 inch. Therefore, SILvalve-3 will support numerous releases without requiring maintenance of the plate.



General Valve Specifications

Fluids: Gas to Sludge

Shutoff Rating: Class VI Rating

Temperature Rating: Up to 2,500 Degrees F

Material: SS 304, 316, 317, Hastelloy, Titanium, carbon steel, etc.

Sizes: 2" to 72"

Pressure Rating: 150# to 15,000# PSIG

Stroke Time: Approximately 1 second per inch opening

Pressure Drop: Near Zero PSIG (Perfect Cv)

Mounting Positions: Any (Does not require full vertical or horizontal position)

Mounting Types: Bolted, Welded Flange, and Welded In-Line



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SEAL RING

GUIDES ~

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