

S-PRO-S RUPTURE DISK

The Oseco S-PRO-S (Sanitary Precision Reverse-Operating Sensor) Rupture Disk is a combination rupture disk and sensor designed and manufactured for high performance and the most demanding sanitary rupture disk applications. The combination of the disk and sensor into the same assembly eliminates the need for separate triclamp ferrules for the sensor installation.

The S-PRO-S presents a smooth surface to the process with the scoring and sensor on its vent side. When the disk bursts, the circuit is broken on the sensor. Oseco's BDA module or the client's alarm system will then be activated by the open circuit condition.

The S-PRO-S is ideally suited for a variety of applications with a broad range of burst pressures from 16 to 150 psig.

Consult factory for pricing and availability for USP Class VI Gaskets.



The S-PRO-S is Oseco's original rupture disk, tension-loaded and economical.

Oseco's S-PRO-S Rupture Disk

- Standard sizes: 1" through 4".
- Standard materials: 316 Stainless Steel with gaskets in a choice of FDA-approved elastomers: white silicone, Viton or EPDM. Other materials available upon special request.
- Operates to 90% of stamped burst pressure.
- Burst tolerance of +/-5% at 40 psig. Burst tolerance of +/-2 psig below 40 psig.
- Well-suited for high-cycling applications.
- Available in 0%, 5%, and 10% manufacturing ranges.
- Excellent for gas or liquid service applications.
- Smooth surface on process side to minimize product buildup. Sensor on vent side of disk.
- Nonfragmenting design.
- Elevated temperatures up to 392° F.
- Withstands full vacuum (14.7 psi) without separate vacuum support.
- Fluoropolymer liner available.

TABLE 1

S-PRO-S Minimum and Maximum Burst Pressure at 72° F

Line Size inches	Min Pressure psig	Max Pressure psig
1.0	40	150
1.5	32	120
2.0	27	90
3.0	20	75
4.0	16	70

TABLE 2

S-PRO-S Sensor Specification

Maximum Preburst Resistance	20 OHMS
Maximum Allowable Current	150 mA
Temperature Range	-20 to 392° F for Silicone and Viton gaskets -20 to 300° F for EPDM gaskets
Sensor Membrane Material	PEEK
Sensor Circuit Track	Silver
Sensor Cable	6 ft long, 24 AWG, 2 Conductor, Fluoropolymer Insulated, Shielded