

## PRO-S Rupture Disc

The Oseco *PRO-S* is a high performance, reverse buckling rupture disc. It is ideal for SIP/CIP applications and is made to meet the highest bioprocessing standards.

The *PRO-S* is precision scored on the vent side and utilizes Oseco's unique computerized load cell technology, enabling its smooth side to face your process materials with minimal product buildup.

The *PRO-S* is nonfragmenting, temperature tested, and vacuum-ready. The disc requires no special or proprietary disc holders, as it is designed for easy installation into standard ferrule connections.



- Standard Material - 316L
- Zero Manufacturing Range
- Operates to 90% of Stamped Pressure
- Non-Fragmenting Design
- Withstands Full Vacuum
- Good for Gas or Liquid Service
- Excellent for High Cycling Applications
- Paintless Tag to Meet ASME Bioprocessing Standards (ASME BPE-2009 SD-3.8(m))
- Electropolishing Available

### PRO-S Minimum and Maximum Burst Pressure at 72°F (22°C)

Line Size	Minimum Pressure		Maximum Pressure	
	psig	barg	psig	barg
1.0" DN 25	40	2.8	150	10.3
1.5" DN 40	32	2.2	120	8.3
2.0" DN 50	27	1.9	90	6.2
3.0" DN 80	20	1.4	75	5.2
4.0" DN 100	16	1.1	70	4.8

**Burst Tolerance:** ±5% at or above 40 PSIG, ±2 psig below 40 psig

The maximum operating temperatures for the *PRO-S* gaskets are 400°F for silicone, 400°F for Viton® and 230°F for EPDM. Contact factory for ratings of other materials.

#### Gasket Materials (FDA Approved)

- Silicone(Platinum Cured)
- EPDM
- Viton®
- Tuf-Steel
- Parylene Coatings Available

Other materials may be available upon request

#### Packaging

Oseco's sanitary rupture discs are hygienically cleaned and sealed in a nitrogen purged bag before shipping. Every disc is individually boxed.

Accessories such as clamps, ferrules, and burst indicators are available.

#### Certifications Available

- ASME/UD
- Burst Test Certifications
- Mill Test Reports
- Material Finish
- PED
- 3A
- FDA Class VI (gaskets)

#### Material Finish

Oseco's 316L stainless steel has a standard 8-12Ra finish. Electropolished material is available upon request for special applications.

## OSS Sensor

The Oseco sanitary sensor (OSS) is designed for use with Oseco sanitary rupture discs.

The burst sensor represents a simple, effective means of indicating the bursting of a rupture disc. Upon rupture the disc alarm circuit is opened by the flowing media. The open circuit may be used to activate a variety of alarms including computer controlled systems.

The sensor comes ready to install with 18" of 2-conductor shielded cable with open leads.

Available in sizes 1" to 4". Paintless tag available upon request.



Electrical Data	
Max Current	150 mA
Temperature Range	-60° to 300°F
Max Pre-burst Resistance	50 Ohms

This sensor may be used at any voltage provided the maximum current requirements are not exceeded.

Materials	
Gasket	Silicone (Platinum Cured), EPDM, Viton®, and Tuf-Steel. Parylene coatings available. Special materials available upon request.
Membrane	Teflon
Circuit Track	316 SS



# Sanitary Accessories

## System Spacer

Oseco provides spacers with standard ferrule connections rather than proprietary holder systems. The spacers can be used to place sensors downstream of a rupture disc when a separate rupture disc and sensor is required.

Oseco's spacers are made from 316L stainless steel and come standard with a 20 Ra finish on the inside diameter (32 Ra on O.D.). Tubing is rated up to 1500 psig and 900°F (rating of tube only-derate to fitting and gasket capability). All parts come marked with lot/heat numbers for traceability. Electropolishing is available.

Available in sizes 1" to 4". Length of spacers are made to match the most common industry holder sizes. Custom sizes available upon request. Each spacer includes two Oseco tri-clamps.



Clamp Size (inches)	Height (inches)	Part Number
1	1.62	X60-0109-001
1.5	1.62	X60-1509-001
2	1.62	X60-0209-001
3	1.81	X60-0309-001
4	2.25	X60-0409-001

## Clamps

Oseco offers a 304 stainless steel tri-clamp fitting model 13MHH-MD for use with sensors and rupture discs. All clamps include a 316 stainless steel 3/4" hex nut for use with any standard torque wrench. Available in sizes 1" to 4". High pressure clamps available for special applications.



Clamp Size (inches)	PSI rating at 72°F	Part Number
1 & 1.5	500	X59-0109-001
2	450	X59-0209-001
3	350	X59-0309-001
4	300	X59-0409-001

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# Sanitary Pressure Relief System



Oseco - Leading the Industry in Pressure Management Innovation