

# STERILIZATION

## STERILIZATION RUPTURE DISC

Oseco's Sterilization rupture disc is a pressure-relieving safety device that is used in many applications. It has a flat or 30° angular seating area and is used primarily to vent to controlled areas or vent to the atmosphere.

The Sterilization rupture disc is designed for operation in applications where normal system pressures do not exceed 70% of the stamped burst pressure. This will ensure excellent and long service life.

The Sterilization rupture disc is available in a wide variety of sizes, pressures and materials.

### Oseco's Sterilization rupture disc is ideal for autoclaves and sterilizers.

- Sizes 3/16" - 1/2"
- Burst Pressure Range 145 psig to 85,000 psig, higher burst pressure available upon request
- Temperatures up to 900° F
- PFA-grade Fluoropolymer liners available for atmospheric and/or process sides
- Available materials of construction: 316 Series Stainless Steel, Nickel, Inconel® 600, Monel®, Aluminum and Hastelloy® C



#### **Common Applications**

Autoclaves and High Pressure Applications

#### **Operating Ratio**

70%

#### **Burst Tolerance**

+/-5% over 90 psig

#### **Manufacturing Range**

-10% over 40 psig



## Related Products

**RUPTURE DISCS**  
STD

**HOLDERS**  
UNION

# Sterilization Rupture Disc Technical Specifications

Sterilization Rupture Disc Min/Max Burst Pressure @ 72° F (psig) / 22° C (barg)

Max Temperature for 316, Inc and Hast C is 900° F / 482.2° C

Max Temperature for NI is 750° F / 398.9° C

Max Temperature for Mon is 800° F / 426.7° C

Max Temperature for Al with and without Fluoropolymer is 250° F / 121.1° C

Max Temperature for 316, NI, Inc, Mon and Hast C with Fluoropolymer on 1 or 2 sides is 400° F / 204.4° C

SIZE inches	MATERIAL	MIN psig (barg)	MAX psig (barg)	TEFLON LINER ON ONE SIDE		TEFLON LINER ON TWO SIDES	
				MIN psig (barg)	MAX psig (barg)	MIN psig (barg)	MAX psig (barg)
<b>3/16"</b> <b>DN 5</b>	316	1750 (12.1)	30000 (206.8)	3000 (20.7)	13200 (91.0)	3250 (22.4)	13200 (91.0)
	NI	1000 (6.9)	20000 (137.9)	1480 (10.2)	10000 (68.9)	1730 (11.9)	10000 (68.9)
	Inc	1500 (10.3)	30000 (206.8)	2250 (15.5)	13200 (91.0)	2500 (17.2)	13200 (91.0)
	Mon	960 (6.6)	20000 (137.9)	1760 (12.1)	12000 (82.7)	2000 (13.8)	12000 (82.7)
	Al	220 (1.5)	1750 (12.1)	940 (6.5)	1750 (12.1)	1190 (8.2)	1750 (12.1)
	Hast C	2000 (13.8)	35000 (241.3)	3200 (22.1)	13500 (93.1)	3400 (23.4)	13500 (93.1)
<b>1/4"</b> <b>DN 6</b>	316	1250 (8.6)	85000 (586.1)	1950 (13.4)	15000 (103.4)	2150 (14.8)	15000 (103.4)
	NI	550 (3.8)	50000 (344.7)	1000 (6.9)	10000 (68.9)	1200 (8.3)	10000 (68.9)
	Inc	900 (6.2)	85000 (586.1)	1500 (10.3)	15000 (103.4)	1700 (11.7)	15000 (103.4)
	Mon	690 (4.8)	40000 (275.8)	1190 (8.2)	10000 (68.9)	1390 (9.6)	10000 (68.9)
	Al	160 (1.1)	2000 (13.8)	470 (3.2)	2000 (13.8)	675 (4.7)	2000 (13.8)
	Hast C	1500 (10.3)	90000 (620.5)	2100 (14.5)	16000 (110.3)	2300 (15.9)	16000 (110.3)
<b>1/2"</b> <b>DN 15</b>	316	700 (4.8)	30000 (206.8)	950 (6.6)	5000 (34.5)	1060 (7.3)	5000 (34.5)
	NI	300 (2.1)	20000 (137.9)	500 (3.4)	3750 (25.9)	610 (4.2)	3750 (25.9)
	Inc	500 (3.4)	30000 (206.8)	725 (5.0)	5000 (34.5)	835 (5.8)	5000 (34.5)
	Mon	375 (2.6)	20000 (137.9)	575 (4.0)	4500 (31.0)	685 (4.7)	4500 (31.0)
	Al	90 (0.6)	1000 (6.9)	275 (1.9)	1000 (6.9)	380 (2.6)	1000 (6.9)
	Hast C	750 (5.2)	35000 (241.3)	1100 (7.6)	5500 (37.9)	1200 (8.3)	5500 (37.9)

Due to material availability, some pressure within the min/max pressure shown may not be available.

Let us help you with all  
your pressure relief questions.  
Call us at (800) 395-3475  
or email us at [info@oseco.com](mailto:info@oseco.com).

[www.oseco.com](http://www.oseco.com)

