

# OSECO SAFETY CARTRIDGE™

FEATURING FAS TECHNOLOGY

The Oseco Safety Cartridge™ combines the traditional three components of a rupture disc system into one hermetically sealed component. It provides worry-free installation for your critical applications, while eliminating maintenance complexities, expenses and time requirements. The Oseco Safety Cartridge™ system guarantees leak protection by completely removing the need to seal your rupture disc within a holder. These high performance, one-piece units come leak tight from the factory and install in minutes. No other rupture disc solution is as effective or easy to install. Its patented design makes the Oseco Safety Cartridge™ system the only widely available solution to eliminate exterior seam leakage.



FLOW DIRECTION

**The Oseco Safety Cartridge™ is the one piece solution for easy installation and critical applications.**

- “Fail-safe” design - a damaged or incorrectly installed FAS will always burst at less than the rated pressure
- Non-torque sensitive
- Fully isolated pressure relief device allows for torquing to any gasket specifications
- Hermetically designed assembly eliminates leak paths
- Leak checked to  $1 \times 10^{-8}$  cc-atm/sec using helium
- Available for gas and liquid service
- Non-fragmenting design
- Withstands full vacuum
- Standard height matches Oseco insert-style holders
- Standard materials of construction: Hastelloy® C, 316 Series Stainless Steel, Inconel® 600, Monel®, and Carbon Steel

**Sizes**

1" - 8"

**Operating Ratio**

90%

**K<sub>R</sub> Value**

K<sub>RG</sub> 0.223 K<sub>RL</sub> 0.19

**Manufacturing Range**

0%



## Related Products

### RUPTURE DISCS

FAS  
OPR+/OPK+  
PCR

### ONE PIECE UNIT

HPSR

## Certifications

ASME UD  
CRN

# Oseco Safety Cartridge™ Technical Specifications

Oseco Safety Cartridge™ Min/Max Burst Pressure @ 72° F (psig) / 22° C (barg)

SIZE inches	MATERIAL	MIN psig (barg)	MAX psig (barg)
1" DN 25	316	220 (15.2)	2000 (137.9)
	Inc	200 (13.8)	
	Mon	140 (9.7)	
	Hast C	270 (18.6)	
1.5" DN 40	316	160 (11.0)	2000 (137.9)
	Inc	170 (11.7)	
	Mon	120 (8.3)	
	Hast C	250 (17.2)	
2" DN 50	316	120 (8.3)	1500 (103.4)
	Inc	130 (9.0)	
	Mon	100 (6.9)	
	Hast C	200 (13.8)	
3" DN 80	316	110 (7.6)	1500 (103.4)
	Inc	100 (6.9)	
	Mon	80 (5.5)	
	Hast C	160 (11.0)	
4" DN 100	316	110 (7.6)	1200 (82.7)
	Inc	100 (6.9)	
	Mon	90 (6.2)	
	Hast C	140 (9.7)	
6" DN 150	316	100 (6.9)	1000 (68.9)
	Inc	110 (7.6)	
	Mon	100 (6.9)	
	Hast C	160 (11.0)	
8" DN 200	316	110 (7.6)	500 (34.4)
	Inc	120 (8.3)	
	Mon	100 (6.9)	
	Hast C	170 (11.7)	

### Burst Tolerance

+/-5% above 40 psig

+/-2 psig at or below 40 psig

### Free Flow Area/Minimum Net Flow Area (MNFA)

DISC SIZE (Inch)	NET FLOW AREA (Sq. Inch)
1"	0.864
1.5"	2.036
2"	3.355
3"	7.393
4"	12.73
6"	28.89
8"	50

### Standard Height Matches

CARTRIDGE SIZE inches	HOLDER SIZE inches
1"	1 5/8"
1.5"	1 5/8"
2"	1 5/8"
3"	1 5/8"
4"	1 7/8"
6"	2 1/2"
8"	2 7/8"

\*Special height available to fit any flange type or configuration, consult factory for more

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)

