

OSECO SAFETY CARTRIDGE™

FEATURING PCR 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.



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

- Non-torque sensitive
- Fully isolated pressure relief device allows for torquing to any gasket specifications
- Hermetically designed assembly eliminates leak paths
- Leak checked to 1×10^{-8} cc-atm/sec using helium
- Weld technology for dissimilar materials
- Available for gas and liquid service
- Non-fragmenting design
- Withstands full vacuum
- High cycle rupture disc, tested to 1 million cycles
- Standard height matches commonly used insert-style holders
- Standard materials of construction: 316 Series Stainless Steel, Inconel® 600, Monel® and Carbon Steel

Sizes

1" - 10"

Operating Ratio

90%

K_R Value

K_{RG}: 2.17

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 Inc Mon	200 (13.8) 140 (9.7) 150(10.3)	1250 (86.2)
1.5" DN 40	316 Inc Mon	185 (12.8) 95 (6.5) 90 (6.2)	1000 (68.9)
2" DN 50	316 Inc Mon	170 (11.7) 80 (5.5) 75 (5.2)	1000 (68.9)
3" DN 80	316 Inc Mon	155 (10.7) 70 (4.8) 65 (4.5)	1000 (68.9)
4" DN 100	316 Inc Mon	135 (9.3) 60 (4.1) 55 (3.8)	800 (55.2)
6" DN 150	316 Inc Mon	95 (6.5) 50 (3.4) 45 (3.1)	800 (55.2)
8" DN 200	316 Inc Mon	N/A 45 (3.1) 40 (2.8)	N/A 700 (48.3) 700 (48.3)
10" DN 250	316 Inc Mon	Consult Factory	

Burst Tolerance

+/-5% above 40 psig

+/-2 psig at and below 40 psig

Free Flow Area/Minimum Net Flow Area (MNFA)

DISC SIZE inches	NET FLOW AREA (Sq. Inch)
0.75"	0.39
1"	0.6
1.5"	1.3
2"	2.5
3"	4.8
4"	8
6"	18
8"	32
10"	51.25

Standard Height Matches

CARTRIDGE SIZE inches	HOLDER SIZE inches
1"	1 1/2"
1.5"	1 5/8"
2"	1 3/4"
3"	2 1/8"
4"	2 7/8"
6"	2 13/16"
8"	3 7/16"

*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.

www.oseco.com

