

OSECO SAFETY CARTRIDGE™

FEATURING OPR+/OPK+ 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: Hastelloy® C, 316 Series Stainless Steel, Inconel® 600, Monel®, and Carbon Steel

Sizes
1" - 12"

Operating Ratio
95%

K_R Value

OPR+ - K_{RGL} : 0.78

OPK+ - K_{RGL} : 1.5

Manufacturing Range
0%



Related Products

RUPTURE DISCS

FAS
OPR+/OPK+
PCR

SENSORS

FLO-TEL+

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	OPR+		OPK+	
	MIN psig (barg)	MAX psig (barg)	MIN psig (barg)	MAX psig (barg)
1" DN 25	100 (6.89)	250 (17.24)	100 (6.89)	1160 (79.98)
1.5" DN 40	50 (3.44)	250 (17.24)	100 (6.89)	1087 (74.95)
2" DN 50	25 (1.72)	250 (17.24)	100 (6.89)	1015 (69.98)
3" DN 80	15 (1.03)	250 (17.24)	100 (6.89)	507' (34.96)
4" DN 100	10 (0.69)	175 (12.07)	100 (6.89)	363' (25.03)
6"– 12"	Consult factory for technical specifications			

*Higher pressures available with PCR rupture disc

Burst Tolerance

+/-5% above 40 psig

+/-2 psig at or below 40 psig

Free Flow Area/Minimum Net Flow Area (MNFA)

NORMAL BORE		OPR+		OPK+	
inches	mm	inch ²	mm ²	inch ²	mm ²
1"	25	0.78	500	0.79	511
1.5"	40	1.69	1092	1.71	1102
2"	50	2.84	1834	2.90	1870
3"	80	6.81	4393	7.03	4535
4"	100	10.96	7072	11.17	7208
6"	150	23.38	15085	24.18	15601
8"	200	44.18	28506	45.46	29327
10"	250	65.05	41969	67.64	436441
12"	300	94.86	61203	99.29	64055

Standard Height Matches

CARTRIDGE SIZE inches	HOLDER SIZE inches
1"	1.48"
1.5"	1.68"
2"	1.88"
3"	2.17"
4"	2.88"
6"	2.91"
8"	3.58"

*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

