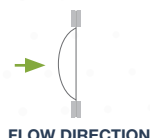


OSECO SAFETY CARTRIDGE

FEATURING OPR+/OPK+ TECHNOLOGY

Reduce fugitive emissions with the Oseco Safety Cartridge, a one-piece, welded rupture disc solution that is leak-tight and installs in minutes.



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 as easy to install. The patented design makes the Oseco Safety Cartridge™ system the only widely available solution to eliminate exterior seam leakage.

Size	1" - 12"
Burst Pressure	10 - 1,160 psig*
K_R Value (K_{RGL})	OPR+: 0.78 / OPK+: 1.5
Operating Ratio	95%
Performance Tolerance	+/-5%
Manufacturing Range	0%

* Burst pressures outside this range are possible, please consult factory

**Let us help you with all
your pressure relief questions.**

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TECHNICAL SPECIFICATIONS



Size range	1"-12" (25-300mm)
Burst pressure range	10-1,160 psig (0.69-79.98 barg)
Temperature range	Up to 900°F (482°C)
Standard materials*	Hastelloy® C, 316 Series Stainless Steel, Carbon Steel, Inconel® 600, Monel®
K _R Value	OPR+: 0.78 OPK+: 1.5
Max. Operating Ratio	95%
Performance Tolerance	+/-5%
Manufacturing Range	0%
Fragmentation	Non-fragmenting design
Vacuum service	Withstands full vacuum (14.7 psi) without separate vacuum support
Fluid compatibility	Gas service and liquid service
Torque requirements	Non-torque sensitive; Fully isolated pressure relief device allows for torquing to any gasket specifications.
Cycling or static service	Suitable for high-cycling applications: tested to one million cycles.
Relief valve isolation	Suitable for safety relief valve isolation
Leak tightness	Hermetically designed assembly eliminates leak paths. Leak checked to 1x10 ⁻⁸ cc-atm/sec using helium.
Design standards	Designed to meet ASME Section XIII standards

* Weld technology for dissimilar materials

Certifications

ASME UD
CRN
CE

Related Products

Rupture discs

FAS
OPR+/OPK+
PCR

One Piece Unit

HPSR

Sensors

FLO-TEL+

Burst Pressure Ranges

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



SIZE		OPR+		OPK+	
(inches)	DN (mm)	MIN psig (barg)	MAX psig (barg)	MIN psig (barg)	MAX psig (barg)
1	25	100 (6.89)	250 (17.24)	250 (17.24)	1160 (79.98)
1.5	40	50 (3.44)	250 (17.24)	250 (17.24)	1087 (74.95)
2	50	25 (1.72)	250 (17.24)	250 (17.24)	1015 (69.98)
3	80	15 (1.03)	250 (17.24)	250 (17.24)	507* (34.96*)
4	100	10 (0.69)	175 (12.07)	175 (12.07)	363* (25.03*)
6 - 12	150 - 300	Consult factory for technical specifications			

* Higher pressures available with the PCR rupture disc

Burst Tolerance

+/-2 psig at or below
40 psig (2.8 barg)

+/-5% above
40 psig (2.8 barg)

Free Flow Area / Minimum Net Flow Area (MNFA)



NOMINAL BORE		OPR+		OPK+	
inches	DN (mm)	Sq. Inch	mm ²	Sq. Inch	mm ²
1	25	0.78	500	0.79	511
1.5	40	1.69	1,092	1.71	1,102
2	50	2.84	1,834	2.90	1,870
3	80	6.81	4,393	7.03	4,535
4	100	10.96	7,072	11.17	7,208
6	150	23.38	15,085	24.18	15,601
8	200	44.18	28,506	45.46	29,327
10	250	65.05	41,969	67.64	43,638
12	300	94.86	61,203	99.29	64,055

Standard height* conforms to:

CARTRIDGE SIZE		HOLDER SIZE	
inches	DN (mm)	inches	mm
1	25	1.48	38
1.5	40	1.68	42
2	50	1.88	47
3	80	2.17	55
4	100	2.88	73
6	150	2.91	73
8	200	3.58	90
10	250	4.14	105
12	300	4.76	120

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

K_R Value (Frictional Loss Factor)

K _R	OPR+	OPK+
K _{RGL}	0.78	1.5