

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 as 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 one million cycles
- Standard materials of construction: Hastelloy® C, 316 Series Stainless Steel, Inconel® 600, Monel®, and Carbon Steel

Sizes

DN 25 – DN 300

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

CE
ASME UD
CRN

Oseco Safety Cartridge™ Technical Specifications

Oseco Safety Cartridge™ Min/Max Burst Pressure @ 72°F / 22°C

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

*Higher pressures available with the PCR rupture disc

Burst Tolerance

+/- 5% above 2.75 barg (40 psig)	+/- 0.14 barg at or below 2.75 barg (40 psig)
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Free Flow Area / Minimum Net Flow Area (MNFA)

NOMINAL BORE		OPR+		OPK+	
inches	mm	inch²	mm²	inch²	mm²
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	43638
12"	300	94.86	61203	99.29	64055

Standard height conforms to

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

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

Let us help you with all
your pressure relief questions

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