

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 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

- "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 1×10^{-8} cc-atm/sec using helium
- Available for gas and liquid service
- Non-fragmenting design
- Withstands full vacuum
- Standard materials of construction: Hastelloy® C, 316 Series Stainless Steel, Inconel® 600, Monel®, and Carbon Steel

Sizes

DN 25 – DN 200

Operating Ratio

90%

K_R Value

K_{RG} 0.223 K_{RL} 0.19

Manufacturing Range

0%



Related Products

RUPTURE DISCS

FAS
OPR+/OPK+
PCR

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

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)

DISC SIZE DN mm (inches)	NET FLOW AREA mm² (Sq. Inch)
DN 25 (1")	557 (0.864)
DN 40 (1.5")	1,313 (2.036)
DN 50 (2")	2,164 (3.355)
DN 80 (3")	4,769 (7.393)
DN 100 (4")	8,212 (12.73)
DN 150 (6")	18,638 (28.89)
DN 200 (8")	32,258 (50)

Standard height conforms to

CARTRIDGE SIZE DN mm (inches)	HOLDER SIZE mm (inches)
DN 25 (1")	41 (1 5/8")
DN 40 (1.5")	41 (1 5/8")
DN 50 (2")	41 (1 5/8")
DN 80 (3")	41 (1 5/8")
DN 100 (4")	47 (1 7/8")
DN 150 (6")	63 (2 1/2")
DN 200 (8")	73 (2 7/8")

*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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