

OSECO SAFETY CARTRIDGE™

FEATURING FAS 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 CartridgeTM system the only widely available solution to eliminate exterior seam leakage.

Size	25mm - 200mm	
Burst Pressure	5.5 - 137.9 barg	
K _R Value	$K_{RG}^{}$ 0.223 $K_{RL}^{}$ 0.19	
Operating Ratio	90%	
Performance Tolerance	+/-5%	
Manufacturing Range	0%	

Let us help you with all your pressure relief questions.

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TECHNICAL SPECIFICATIONS



Size range	25-200mm (1"-8")
Burst pressure range	5.5-137.9 barg (80-2,000 psig)
Temperature range	Up to 482°C (900°F)
Standard materials	Hastelloy® C, 316 Series Stainless Steel, Carbon Steel, Inconel® 600, Monel®
K _R Value	K _{RG} 0.223 K _{RL} 0.19
Max. Operating Ratio	90%
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
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

Certifications

ASME UD CRN CE

Related Products

Rupture discs FAS OPR+/OPK+ PCR One Piece Unit HPSR

Burst Pressure Ranges





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

Burst Tolerance

+/-0.14 barg at or below 2.8 barg (40 psig)

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

Free Flow Area / Minimum Net Flow Area (MNFA)



NOMINAL BORE		MNFA	
DN (mm)	inches	mm²	Sq. Inch
25	1	557	0.864
40	1.5	1,313	2.036
50	2	2,164	3.355
80	3	4,769	7.393
100	4	8,212	12.73
150	6	18,638	28.89
200	8	32,258	50.0

Standard height* conforms to:

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

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

K_R Value (Frictional Loss Factor)

$K_{_{R}}$	Oseco Safety Cartridge	
K _{RG}	0.223	
K _{RL}		0.19