

PURE-GARD SANITARY WELDED RUPTURE DISC CARTRIDGE

Welded innovation in sanitary pressure relief, designed for maximum cleanability and efficiency

FDA ASME BPE ISO 1127 Meets bioprocessing

requirements



Pure-Gard is an innovative, sanitary pressure relief solution specifically designed for applications where cleanability is of paramount importance. The new disc design provides a cleanable, robust solution to address the challenges of complex manufacturing environments including pharmaceutical, biopharmaceutical and food.

Using our tried-and-tested Opti-Gard technology, we electron-beam weld the disc betweeen two metal ferrules to provide a solution that is installed independently to gaskets. You are free to use your preferred gaskets and change them as often as needed without needing to change the rupture disc.

Size	25 - 100mm	Let us help you with all
Burst Pressure	0.34 - 10 barg	your pressure relief questions.
K _R Value (K _{RGL})	0.85	US office <i>Broken Arrow</i>
Operating Ratio	95%	+1 (918) 258 5626 info@osecoelfab.com
Performance Tolerance	+/- 0.14 barg	UK office <i>North Shields</i>
Manufacturing Range	0%	+44 (0)191 293 1234 uksales@osecoelfab.com

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TECHNICAL SPECIFICATIONS



Size range	25-100mm (1"-4")
Burst pressure range	0.3 barg to 10 barg (5 psig to 145 psig)
Suitable for CIP/SIP processes	Yes. Suitable for temperatures up to 260°C (500°F)
Standard materials	316 Stainless Steel. Others available on request.
Max. Operating Ratio	95% of minimum burst pressure (92% of nominal burst pressure)
Performance Tolerance	+/- 0.14 barg or less up to 4.48 barg (+/- 3% above 4.48 barg)
Manufacturing Range	0%
Fragmentation	Non-fragmenting design
Vacuum Service	See details on next page for minimum burst pressures required to withstand full vacuum
Fluid compatibility	Gas service, liquid service, vapour service, two-phase service
Surface finish	0.4 μm Ra (15 micro inches)
Design Standards	Manufactured to ASME XIII or ISO 4126-2:2019 standards

Certifications

Meets FDA requirements Meets ASME BPE requirements ASME UD CE PED SIL

Related Products

Sensors Vent-Tel (Sanitary) Rupture Discs Opti-Gard SoLo

Accessories Tri-Clamps Spacers



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Pure-Gard Min/Max Burst Pressure @ 15-30°C (59-86°F)



SIZE			Burst pressures	
DN (mm)	inches	MATERIAL	MIN barg (psig)	MAX barg (psig)
25	1	316 Stainless Steel	1.58 (23)	10 (145)
40	1.5	316 Stainless Steel	1.31 (19)	9 (130)
50	2	316 Stainless Steel	1.03 (15)	8 (116)
65	2.5	316 Stainless Steel	0.82 (12)	8 (116)
80	3	316 Stainless Steel	0.75 (11)	7 (101)
100	4	316 Stainless Steel	0.34 (5)	7 (101)

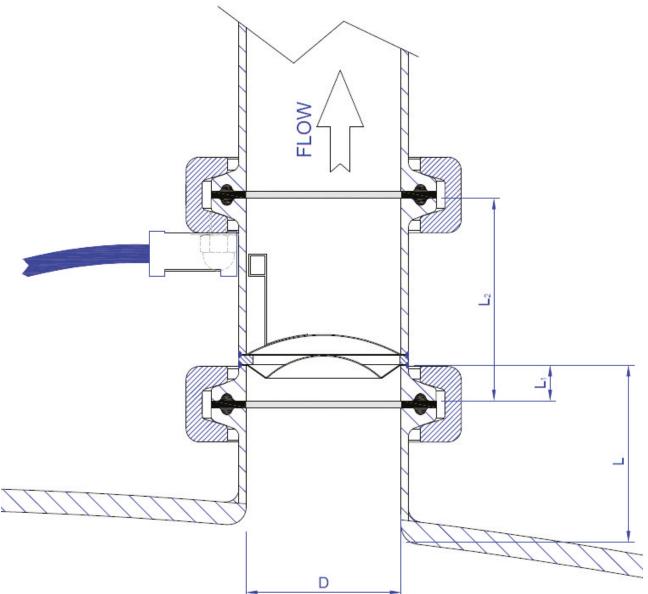
Minimum burst pressure to withstand full vacuum

NOMINAL BORE		MIN barg (psig)
DN (mm)	inches	
25	1	1.72 (25)
40	1.5	1.59 (23)
50	2	1.45 (21)
65	2.5	1.45 (21)
80	3	1.59 (23)
100	4	1.59 (23)



Schematic Drawing





NOMINAL	. BORE (D)	Pure-Gard	
DN (mm)	inches	L/D geometry (L1)	Overall length (L2)
25	1	8mm (0.31")	45mm (1.77")
40	1.5	8mm (0.31")	45mm (1.77")
50	2	8mm (0.31")	45mm (1.77")
65	2.5	9mm (0.35")	46mm (1.81")
80	3	10mm (0.39")	47mm (1.85")
100	4	10mm (0.39")	47mm (1.85")

'L' = Distance from the vessel to Pure-Gard. This distance will vary depending on application.





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