

PRO-LP

LOW PRESSURE HOLDERLESS DISC

The low-profile PRO-LP protects lithium-ion battery enclosures with fast, accurate, reliable pressure relief



The PRO-LP Low Pressure Disc is designed for demanding low-pressure applications such as protecting lithium-ion battery enclosures. The low profile design and low K_R (flow resistance value) ensures fast, accurate, full-bore relief for confidence in a safer, cleaner battery design.

The PRO-LP is a reverse buckling, high-performing rupture disc. The design allows it to be installed directly on the enclosure without the need of a traditional holder.

Additionally, the PRO-LP can be used in a standard PRDI holder mounted between ANSI flanges, or in a customer's integrated holder for differing application types.

Size	1" - 4"
Burst Pressure	5 psig - Custom max. burst pressure
K_R Value (K_{RGL})	0.29
Operating Ratio	95%
Performance Tolerance	+/- 5%
Manufacturing Range	0%

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

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TECHNICAL SPECIFICATIONS



Size range	1"-4" (25-100mm) - Larger sizes available on request
Burst pressure range	5 psig to custom max. burst pressure (0.345 barg to custom max. burst pressure)
Standard materials	316 Stainless Steel, Hastelloy® C, Nickel, Inconel
K _R Value	0.29
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
Design Standards	Designed to meet ASME Section XIII standards

Related Products

Holders

PRDI

Rupture Discs

Dual-Gard

Burst Pressure Ranges

PRO-LP Min/Max Burst Pressure @ 72°F (22°C)



SIZE		MATERIAL	MIN psig (barg)	MAX psig (barg)
inches	mm			
1 - 4	25 - 100	316 Stainless Steel Inconel Nickel Hastelloy C	5 (0.345)	Customizable - Contact us

* Sizes and pressures outside of those listed are available. Contact us to discuss your requirements.

Free Flow Area / Minimum Net Flow Area (MNFA)

DISC SIZE		MNFA	
inches	mm	Sq. Inch	mm ²
1	25	0.864	557.4
1.5	40	2.036	1,313.5
2	50	3.355	2,164.5
3	80	7.393	4,769.7
4	100	12.73	8,212.9

Burst Tolerance

+/-2 psig at or below 40 psig
+/-5% above 40 psig

+/-0.14 barg at or below 2.8 barg
+/-5% above 2.8 barg

K_R Value (Frictional Loss Factor)

K _R	PRO-LP
K _{RGL}	0.29