



# E-MOBILITY

Lithium-Ion Battery Safety



A **Halma** company

# Fast, accurate, reliable overpressure protection.

OE Lion offers a range of specialized rupture discs and services for lithium-ion batteries. The high-tech solutions provide fast, reliable and accurate emergency pressure relief, with an optional breather membrane for ongoing pressure equalization.

Combining these two pressure safety features in a single device supports battery manufacturers and integrators in designing safer, simpler and more cost-effective li-ion batteries.



# OE Lion. Pride in simpler, safer lithium-ion batteries.

## — In-house design and engineering:

Specialist solutions for specialist environments.

## — Design flexibility:

We work collaboratively to create customized and cost-effective solutions. Our partnership approach means we can flexibly adapt to changes throughout the design process.

— **Responsive support:** We provide on-site visits, face-to-face interactions, and immediate technical assistance through a small, agile team.

— **Space optimization:** Our low-profile and space-saving designs minimize the pressure relief footprint while maintaining full efficiency.



# Ensuring lithium-ion battery safety and performance.



## Lion-Gard

Solid metal disc for a wide range of pressures and sizes. Different disc profiles to suit customer design requirements.

- Typical sizes: 25-300mm / 1-12"
- Minimum burst pressure: 0.21 barg / 3 psig\*
- Max. operating ratio: 95%\*



## PRO-LP

Solid metal reverse buckling disc for low pressure ranges.

- Typical sizes: 25-100mm / 1-4"
- Minimum burst pressure: 0.28 barg / 4 psig\*
- Max. operating ratio: 95%\*



## Lion PLR

Solid metal reverse buckling disc for very low pressures.

- Typical sizes: 25-300mm / 1-12"
- Minimum burst pressure: 0.14 barg / 2 psig\*
- Max. operating ratio: 90%\*

\* Specifications outside of those listed are possible as custom designs. Please contact us to discuss your requirements.



### Lion Flat Comp

Flat composite disc for ultra-low pressures.

- Typical sizes: 25-300mm / 1-12"
- Minimum burst pressure: 0.07 barg / 1 psig\*
- Max. operating ratio: 40%\*



### Dual Gard

Optional breather membrane technology.

Add Dual-Gard to any disc for ongoing pressure equalization in addition to emergency pressure relief.



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