

Emergency Relief Valve **PROTEGO**[®] ER-V-LP

New Development for Low Pressure Settings up to + 3.4 mbar



The patented valve pallet technology guarantees that minimum leakage rate requirements can be met, resulting in lowest possible product losses and reduced environmental impact.

Challenge

In an emergency – e.g., in a fire or in case of malfunction – it may become necessary for the extraordinarily high, suddenly occurring venting requirements to be met through the PROTEGO[®] ER-V-LP emergency relief valve. At the same time, there is the objective to minimize emission losses. The valves of PROTEGO[®], using the 10% technology, guarantee both a safe function and extremely low emission losses at the lowest practical set pressures.

Fields of Application

- Used where overpressure relief valves designed for normal operation fail to satisfy suddenly occurring venting requirements (Fig. 2)
- Used as an emergency pressure relief valve on storage tanks, vessels, silos, and process engineering equipment in the event of a fire (Fig. 2)
- Used with tank inert gas blanket systems to relieve excess gas in case of malfunction (Fig. 2)
- Used on tanks storing gas liquefied under cryogenic conditions so that, in the event of leakage in the product tank, gases resulting in the insulated tank are quickly relieved through the emergency relief valve (Fig. 1)

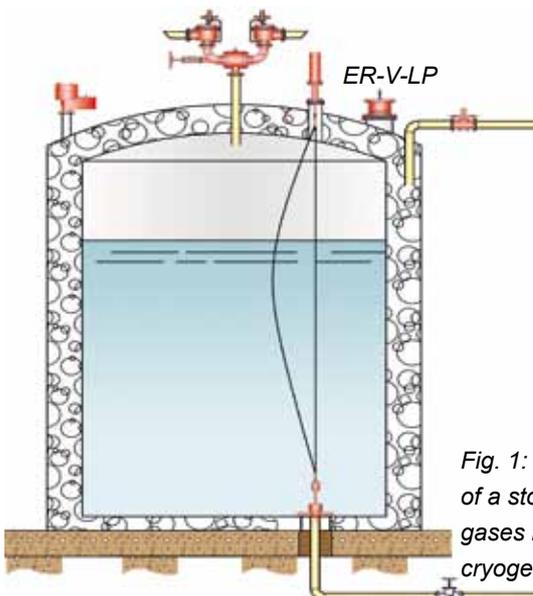


Fig. 1: Typical protection of a storage tank for gases liquefied under cryogenic conditions

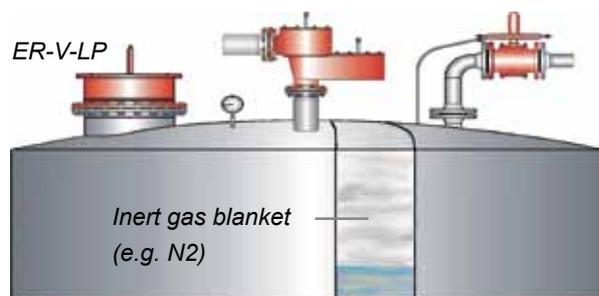


Fig. 2: Tank protection by PROTEGO[®] VD/SV-PA pressure and vacuum relief valve, PROTEGO[®] ZM-R nitrogen control valve and PROTEGO[®] ER-V-LP emergency relief valve

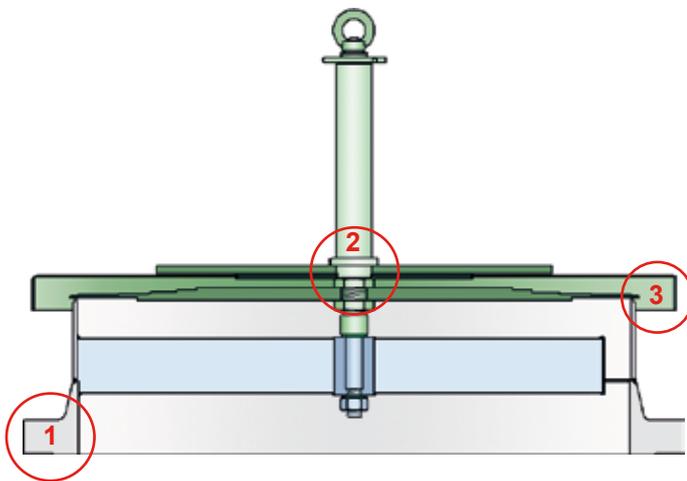


for safety and environment

PROTEGO® ER-V-LP ensures High Quality and Reliability

Features

- Patented **valve pallet technology (EP 2 420 708)** with metal-to-metal seal-tight features
- Guaranteed excellent tightness, resulting in the lowest possible product losses and reduced environmental impact
- 10% technology for minimum pressure increase up to full lift
- Set pressure close to opening pressure for optimum pressure maintenance in the system
- Low pressure range (+3.4 mbar through +15 mbar)
- High flow capacity due to large opening cross-section (DN 200 / 8" through DN 700 / 28")
- Safely guided valve pallet
- Valve pallet is guided inside the housing to protect against harsh weather conditions
- Sturdy housing design
- Can be used in explosion hazardous areas
- Best technology for API tanks



Construction and Design

- ① Sturdy housing design with flange connection to ASME ISO, EN/DIN standards
- ② Valve pallet guided within a closed system
- ③ Patented valve pallet with metal-to-metal seal-tight features



Additional information about ER/V can be found in a separate flyer.

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