



70 MPa

Pressure Relief Devices

H-PRD70 Series



A wide range of 700 bar (70 MPa) hydrogen PRDs are available, including end plug and remote-activated models for long tanks. Options include temperature sensors, clocking, and compatibility with multiple tank neck geometries (1-1/2", M45, and remote).

All H-PRD70 devices share the same activation design and are typically paired with H-TV-70 GFI tank valves for complete bonfire and thermal event protection.



DESIGN

- End plug and remote-activated configurations available
- Remote PRDs include inlet, vent, and outlet ports (final PRD has only inlet and vent)
- Optional temperature sensors and clocking configurations
- Compatible with various tank thread geometries: M25, 1-1/2", and M45

PERFORMANCE & OPTIONS

- Nominal working pressure of 700 bar (70 MPa)
- Pipe-away TPRD activation at $110\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$
- Operating temperature range: $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$
- High-flow and fast-activating relief design
- Lightweight aluminum construction
- Cadmium-free eutectic activation technology
- Certified with EC 79; pending ECE R134 and others



SPECIFICATIONS

GENERAL INFORMATION	
APPLICATION	Suitable for 70MPa hydrogen cylinders
DESIGN	Thermally activated PRD
BODY MATERIAL	Aluminum, anodized
FUEL TYPE	Hydrogen per SAE J2719 and ISO 14687
PERFORMANCE	
NOMINAL WORKING PRESSURE	70 MPaG
MAX WORKING PRESSURE	87.5 MPaG
OPERATING TEMPERATURE	-40 °C to +85 °C
T-PRD ACTIVATION	110 ± 5°C
T-PRD ORIFICE	Up to 4 mm equivalent diameter
CONNECTIONS	
CONFIGURATIONS	M25, 1-1/2", M45, versions with temperature sensor, remote (with various inlet fitting options)
TPRD VENT PORT TYPE	Depending on model: 7/16-20 UNF-2B, 9/16-18 UNF-2B (others possible)
APPROVALS	
CERTIFICATIONS	EC79, ECE R134 pending

