

# H-PRD70 Series

## 70 MPa PRESSURE RELIEF DEVICES (PRD's)

### Key Features

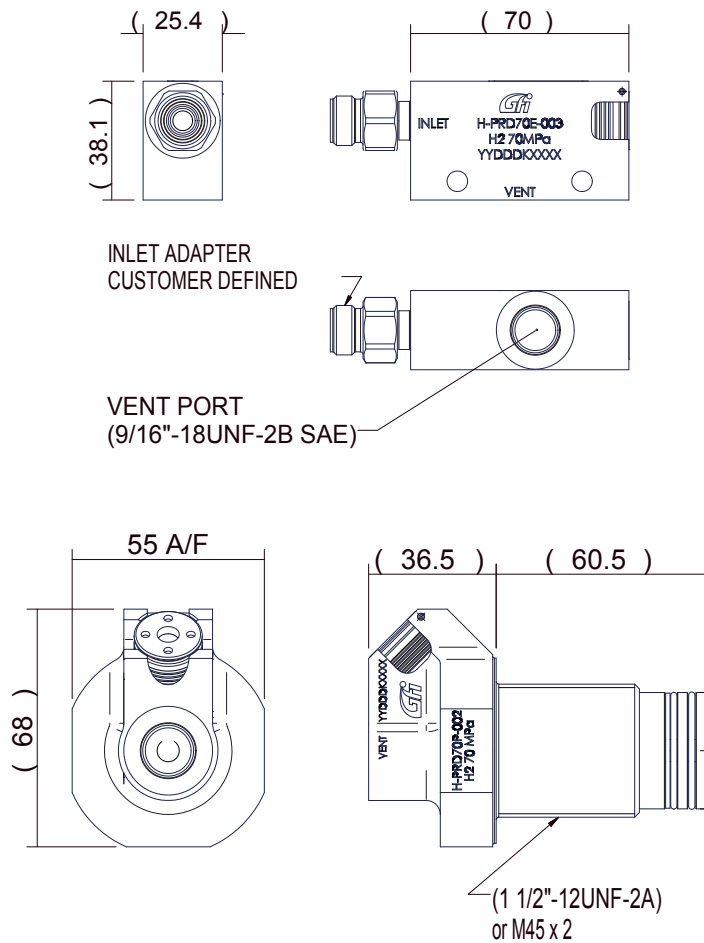
Wide array of pressure relief devices (PRD) available for 700 bar (70 MPa) hydrogen applications. This includes both end plug and remote-activated PRD's for longer tank systems. Various PRD models to include optional temperature sensors, clocking, as well as accounting for thread compatibility with different tank neck geometries (1-1/2", M45 and remote). The family of H-PRD70 products all use the same PRD activation design and are commonly paired with the appropriate H-TV70 GFI tank valves to provide complete coverage of a tank for bonfire testing and thermal event protection.

- Nominal working pressure of 700 bar
- Various tank thread geometries available (1-1/2", and M45)
- Pipe away TPRD 110 °C ± 5 °C
- Operating temperature -40 °C to +85 °C
- High flow and fast activating design
- Cadmium-free eutectic technology
- Light-weight aluminum design
- Compliant/approved to EC 79; Pending: ECE R134, HPRD1, GB/T 42536, UN GTR 13, EU 535, ISO 19882
- Remote PRD variations have inlet, vent and outlet port, if necessary, for daisy-chaining on long tanks (final PRD would only have an inlet port and vent port)



# SPECIFICATIONS

H-PRD70 Series	
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 / CERTIFICATIONS	
CONFIGURATIONS	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)
CERTIFICATIONS	EC 79; Pending: ECE R134, HPRD1, GB/T 42536, UN GTR 13, EU 535, ISO 19882



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