

# H-TV-600 Series

## HEAVY DUTY GRADE 1-1/8" INTERNAL SOLENOID TANK

### Key Features

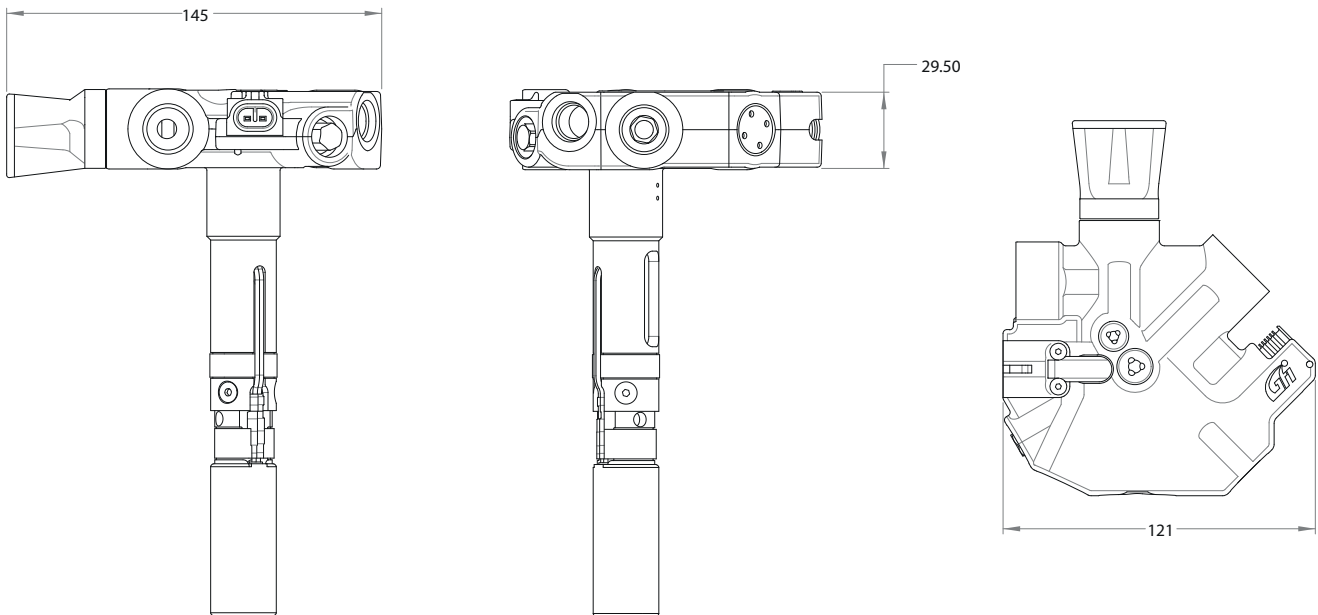
1-1/8" tank valve based on the popular 2" tank valve technology. Popular in OEM programs due to its low profile and high-level of integrated features. Uses an in-tank solenoid to protect it from external impact and risk of corrosion/environmental exposure. Tank valve includes integrated high flow PRD, manual shutoff, and bleed valve.

- Low-profile design to maximize tank package length
- In-tank solenoid for improved crashworthiness and environmental protection
- 12 V and 24 V solenoid options
- Nominal working pressure of 35 MPa
- Working temperature -40 °C to +85 °C
- 1-1/8" tank neck geometry
- High-flow pilot activated pipe away TPRD; 110 +/- 5°C
- Integrated solenoid and manual shutoff valves, PRD, bleed valve and check valve function
- Light-weight aluminum design
- Pressure sensor port (optional)
- Live port (optional)
- Commonly paired with temperature sensing PRD end plug for tank packages
- Compliant/approved to EC79; ECE R134 pending



# SPECIFICATIONS

H-TV-600 Series		
GENERAL INFORMATION		
APPLICATION	Hydrogen Tank Valve	
DESIGN	Automatic valve, internal solenoid	
BODY MATERIAL	Aluminum, anodized	
FUEL TYPE	Hydrogen per SAE J2719 and ISO 14687	
NOMINAL WORKING PRESSURE	35 MPaG	
MAX WORKING PRESSURE	43.8 MPaG	
WORKING TEMPERATURE	-40 °C to +85 °C	
FLOW COEFFICIENT (Cv)	Fueling and defueling: > 0.5	
T-PRD OPERATION	110 +/- 5 °C	
T-PRD ORIFICE	up to 8 mm equivalent diameter	
CHECK VALVE FUNCTION (FILL PATH)	Opening Pressure < 0.3 MPa	
ELECTRICAL		
COIL NOMINAL VOLTAGE	12 V	24 V
NOMINAL COIL RESISTANCE AT 20 °C	19.2 Ω	71.8 Ω
COIL NOMINAL POWER AT 20 °C	7.5 W	8 W
CONNECTIONS / OPTIONS / CERTIFICATIONS		
SOLENOID	Mating connector: AMP Superseal 1.5, 2 pin; 282080-1	
CYLINDER CONNECTION	1 1/8-12 UNF-2B	
INLET / OUTLET PORT TYPE	9/16-18 UNF-2B (others possible)	
TPRD VENT PORT TYPE	3/4-16 UNF-2B (others possible)	
OPTIONS	A) Pressure sensor port (7/16-20 UNF-2B); B) Live port (9/16-18 UNF-2B); C) Excess Flow Valve (EFV) module; D) Excess Flow Valve (EFV) + Filter module	
CERTIFICATIONS	EC79, ECE R134 Pending	



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