



Heavy-Duty 2" Crashworthy Internal Solenoid Tank Valve

H-TV-300 Series



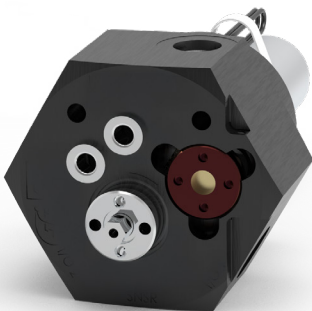
Innovative tank valve that mounts the solenoid inside the tank to protect it from external impact and risk of corrosion/ environmental exposure. Temperature sensor mounted inside the tank for fuel dispenser feedback and fuel gauge accuracy. Also includes integrated PRD, manual shutoff valve and check valve function.

DESIGN

- Lightweight construction for weight-sensitive applications
- 2" tank neck geometry
- Nominal working pressure of 35 MPa

PERFORMANCE & OPTIONS

- Optional EFV module and filter module
- Two I/O ports and optional pressure sensor port
- Integrated in-tank solenoid for impact and corrosion protection
- Pipe-away TPRD (110 ± 5 °C)
- Temperature sensor for dispenser and gauge accuracy
- Integrated manual shutoff, PRD, and check valve functions
- Available in both 12 V and 24 V solenoid configurations
- Designed to operate from -40 °C to $+85$ °C
- Certified to HPRD1, EC 79, GB/T 35544, ECE R134, UN GTR 13, EU 535, ISO 19882, PED



SPECIFICATIONS

GENERAL INFORMATION

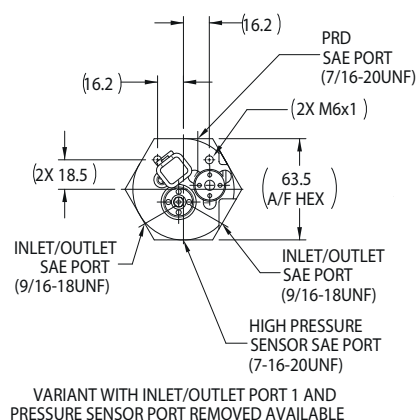
APPLICATION	Hydrogen 2" Tank Valve
DESIGN	Automatic valve, internal solenoid
BODY MATERIAL	Aluminum, anodized
FUEL TYPE	Hydrogen per SAE J2719 and ISO 14687
NOMINAL WORKING PRESSURE	35 MPaG
MAX WORKING PRESSURE	43.8 MPaG
OPERATING TEMPERATURE	-40 °C to +85 °C
FLOW COEFFICIENT (CV)	Fueling and defueling: > 0.5
T-PRD ACTIVATION	110 +/- 5 °C
T-PRD ORIFICE	up to 5.7 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
THERMISTOR R25C	2,700 ohms +/- 2%	
THERMISTOR TYPE	NTC	

CONNECTIONS / OPTIONS /CERTIFICATIONS

ELECTRICAL CONNECTOR	Mating Connector: Deutsch DTM 06-4S; Others possible
CYLINDER CONNECTION	2-12 UNF-2B
INLET / OUTLET PORT TYPE	9/16-18 UNF-2B
TPRD VENT PORT TYPE	7/16-20 UNF-2B
PRESSURE SENSOR PORT TYPE	7/16-20 UNF-2B
OPTIONS	2 x inlet/outlet port & pressure sensor port; - Excess Flow Valve (EFV) module; - Excess Flow Valve (EFV) + Filter module
CERTIFICATIONS	HPRD1, EC 79, GB/T 35544, ECE R134, UN GTR 13, EU 535, ISO 19882, PED



STANDARD HARNESS LENGTH = 165
TO BASE OF CONNECTOR
STANDARD CONNECTOR = DEUTSCH DTM 04-4P
(OTHER LENGTHS AND CONNECTOR POSSIBLE)

