



Type III Hydrogen Storage Cylinders

18 complete cylinder + valve sets available for sale — new, unused

|                         | Cylinders (each) | Valves (each) |
|-------------------------|------------------|---------------|
| Original Purchase Price | \$1,619.75       | \$605.82      |
| Sale Price              | \$1,000.00       | \$350.00      |

CYLINDER SPECIFICATIONS

|                    |                                                             |
|--------------------|-------------------------------------------------------------|
| Manufacturer       | Shenyang Snow Rain Technology Co., Ltd                      |
| Country of Origin  | China                                                       |
| Type               | Type III — aluminum liner, full carbon fiber composite wrap |
| Working Pressure   | 3,000 psi (~207 bar)                                        |
| Storage Volume     | 140 L                                                       |
| Outside Diameter   | 376 mm (14.8")                                              |
| Length             | 1,820 mm (71.7")                                            |
| Weight             | 80 kg (176.4 lbs)                                           |
| Quantity Available | 18 complete sets                                            |

EACH SET INCLUDES

|               |                                                                          |
|---------------|--------------------------------------------------------------------------|
| Tank Valve    | GFi H-TV-300 Series (model H-TV-324-003) — 24V internal solenoid         |
| Bottom Plug   | Model FVPD-350                                                           |
| Documentation | GFi H-TV3x Application Guide (AG-010 Rev B) + H-TV-300 Series data sheet |

VALVE HIGHLIGHTS (GFi H-TV-300 SERIES)

- In-tank solenoid — protected from impact, corrosion, and environmental exposure
- Nominal working pressure: 35 MPa (350 bar); max 43.8 MPa
- Operating temperature: -40°C to +85°C
- Integrated: solenoid valve + manual shutoff + NTC temperature sensor + PRD + check valve
- Thermal PRD activates at 110 ± 5°C
- Two I/O ports (9/16-18 UNF) + pressure sensor port
- Certifications: HPRD1, EC 79, GB/T 35544, ECE R134, UN GTR 13, EU 535, ISO 19882, PED

TECHNICAL DOCUMENTATION

**GFi H-TV3x Application Guide — AG-010 Rev B** ↗  
Installation, wiring, torque specs, thermistor table — 8 pages

**GFi H-TV-300 Series Data Sheet** ↗  
Full specs, certifications, dimensional drawing

**Note for buyers:** Installation must be performed by qualified technicians per GFi Application Guide AG-010. Tank must be purged with inert gas before valve installation. Full documentation provided with purchase.

**CONTACT TO INQUIRE**

**Ernesto Zaragoza**  
Email: [ernesto@orega.com](mailto:ernesto@orega.com)  
Mobile/Celular: [+1 720-473-1346](tel:+17204731346)  
Location: Phoenix, AZ, USA

PRODUCT IMAGES



GFi H-TV-300 SERIES — PRODUCT DATA SHEET

**HYDROGEN**

FUELINGCHANGE

# H-TV-300 Series

## 35MPa 2" INTERNAL SOLENOID TANK VALVE

**Key Features**

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.

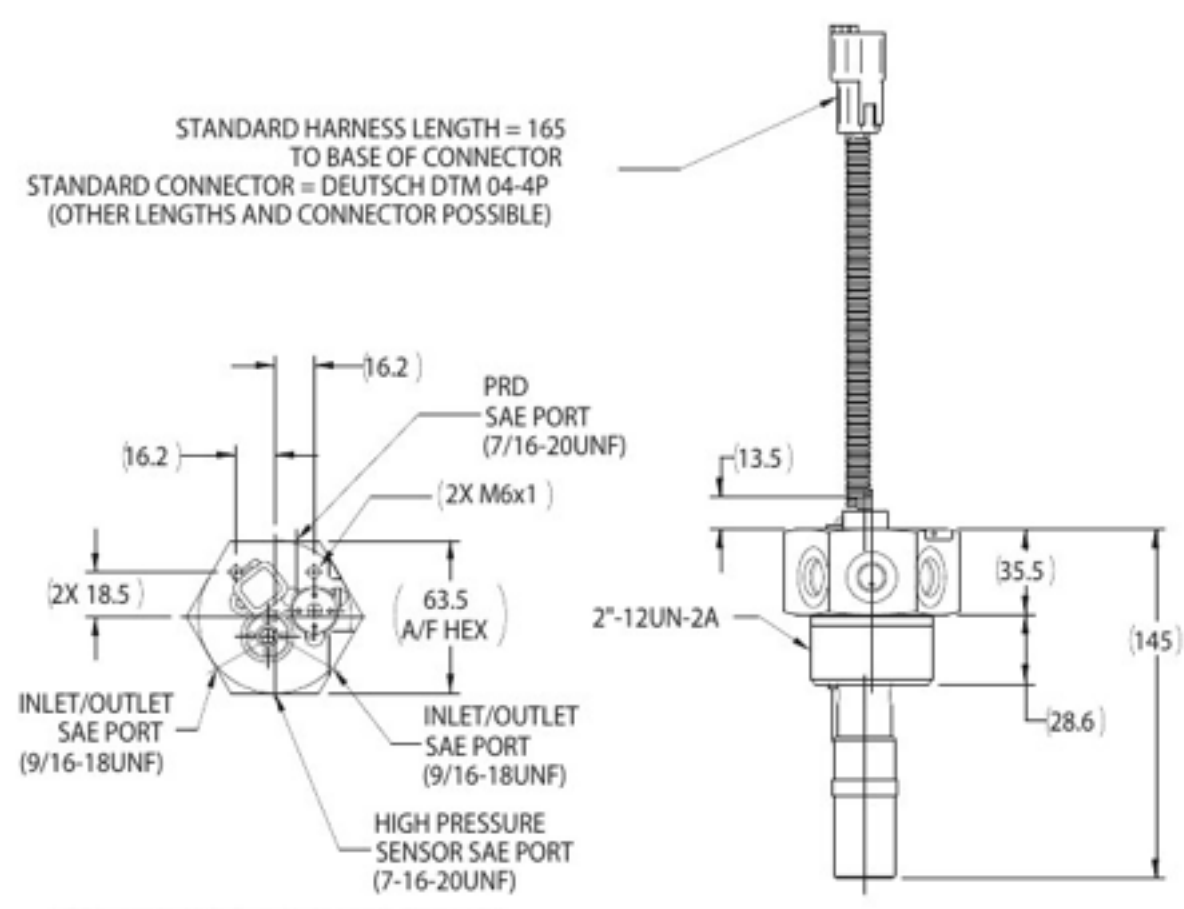
- More than 20 years of service experience in OEM applications
- In-tank solenoid for improved crashworthiness and environmental protection
- 12 V and 24 V solenoid options
- Nominal working pressure of 35 MPa
- Operating temperature -40 °C to +85 °C
- 2" tank neck geometry
- Pipe away TPRD, 110 +/- 5 °C
- Integrated solenoid and manual shutoff valves, temperature sensor, PRD and check valve function
- Light-weight aluminum design
- Two I/O ports and pressure sensor port
- Optional port configurations, EFV module and Filter module
- Compliant/approved to HPRD1, EC 79, GB/T 35544, ECE R134, UN GTR 13, EU 535, ISO 19882, PED



[www.gficontrolsystems.com](http://www.gficontrolsystems.com) | [www.wfsinc.com](http://www.wfsinc.com) | [gfsales@wfsinc.com](mailto:gfsales@wfsinc.com)

## SPECIFICATIONS

| H-TV-300 Series                        |                                                                                                                                      |        |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------|
| 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                                | A) 2 x inlet/outlet port & pressure sensor port;<br>B) Excess Flow Valve (EFV) module;<br>B) 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)

16.2, 16.2, 13.5, 35.5, 28.6, 145, 63.5, 6.2, 2X 18.5, 2X M6x1, 9/16-18 UNF, 7/16-20 UNF, 2"-12 UN-2A, 9/16-18 UNF, 7/16-20 UNF, 2"-12 UN-2A

PRD SAE PORT (7/16-20UNF)  
INLET/OUTLET SAE PORT (9/16-18UNF)  
INLET/OUTLET SAE PORT (9/16-18UNF)  
HIGH PRESSURE SENSOR SAE PORT (7-16-20UNF)

VARIANT WITH INLET/OUTLET PORT 1 AND PRESSURE SENSOR PORT REMOVED AVAILABLE



IATF 16949:2016 registered  
a Westport Fuel Systems company

[www.gficontrolsystems.com](http://www.gficontrolsystems.com) | [www.wfsinc.com](http://www.wfsinc.com) | [gfsales@wfsinc.com](mailto:gfsales@wfsinc.com)

300040\_REV C - All rights reserved.  
All information is subject to change without notice.  
Images for illustration purposes only, may not reflect configuration provided.

18 units available — Phoenix, AZ, USA — New / Unused