

# H-ITVR-70 Series

## 70 MPa TANK VALVE WITH INTEGRATED REGULATOR 70MPa集成减压器式氢气瓶口阀

### Key Features

The 70 MPa H-ITVR simplifies fuel cell systems and reduces costs by providing a regulated low pressure output directly from the tank. This design combines GFI's 70 MPa tank valve technology with their regulator technology in order to provide a compact, integrated system. For multi-tank systems, a single H-ITVR-70 can be used to regulate the pressure down for the entire tank system, further reducing the system cost.

- Based on GFI's successful family of internal solenoid tank valves
- The solenoid lock off is located inside the cylinder, providing real crash and environmental protection
- Pipe away T-PRD
- Internal temperature sensor
- Stainless steel body
- 12 V and 24 V solenoid coils available
- 70 MPa service pressure
- Integrated, serviceable regulator, aluminum body

### 主要特性

70MPa H-ITVR把氢气瓶口阀和减压器集成在一起，简化供氢系统，降低系统成本。该产品继承了GFI 70MPa氢气瓶口阀技术和减压器技术，结构非常紧凑。对于多个气瓶的气瓶组供氢系统，1个H-ITVR-70就可以满足系统需要。

- 基于GFI成功的内置电磁阀式瓶口阀设计经验；
- 电磁切断阀位于气瓶内部，保护其不受碰撞和外界环境的影响；
- 集成温度型压力释放阀；
- 集成温度传感器；
- 不锈钢机体；
- 兼容12V或者24V系统；
- 70MPa工作压力
- 集成可维修或更换的铝制减压器。



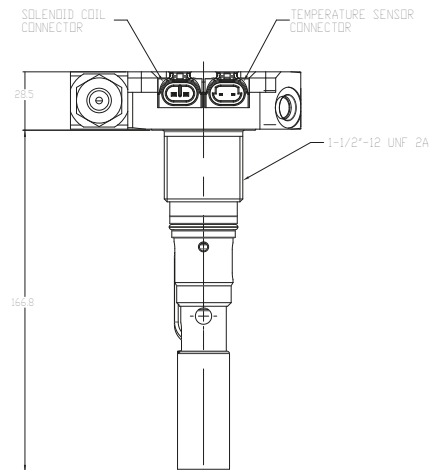
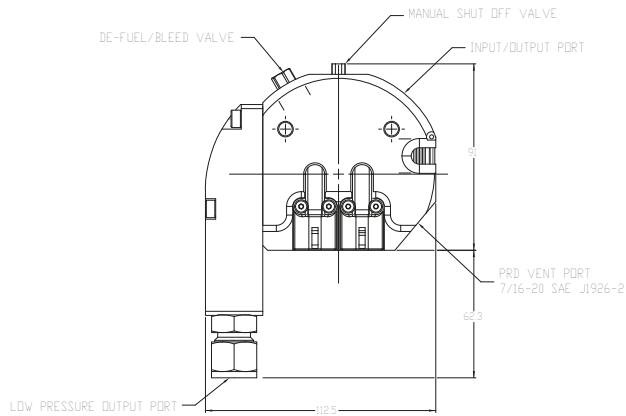
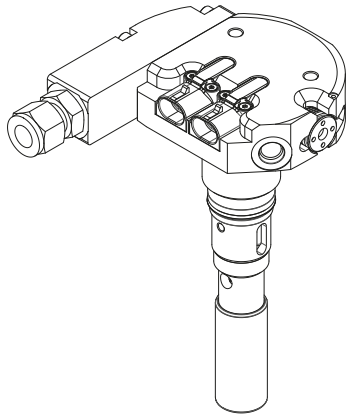
Engineered to meet International Standards and Regulations  
• Including ANSI HGV 3.1/HPRD 1, ECE R134, EC 79/2009, and UN GTR No. 13.

All designs are subjected to rigorous qualification testing  
• Including long-term endurance cycling, severe vibration, and accelerated cyclic corrosion.

# SPECIFICATIONS 技术参数

## H-ITVR-70 Series

GENERAL INFORMATION 基本参数			
APPLICATION 应用	Hydrogen 70 MPa Tank Valve 70MPa 氢气瓶阀		
DESIGN 设计	Automatic valve, internal solenoid 自动, 嵌入式电磁阀		
BODY MATERIAL 机体材料	Tank valve: stainless steel; Regulator: aluminum (SS possible)		
FUEL TYPE 燃气类型	Hydrogen		
PERFORMANCE 性能			
RESPONSE TIME 反应时间	< 750 ms		
T-PRD OPERATION 激活温度	110 +/- 5°C		
SERVICE PRESSURE 工作压力	70 MPa (10,152 psi)		
WORKING TEMPERATURE 工作温度	-40°C to 85°C (-40°F to 185°F)		
OUTLET PRESSURE	Factory adjustable: 1.2 to 2 MPa (g) (174 to 290 psig)		
OPTIONS	PRV, Filter, Pressure Sensor Ports		
ELECTRICAL 电气 (to be confirmed)	Coil model 线圈型号	12 V	24 V
	Minimum opening voltage 最小开启电压	8 V	16 V
	Nominal voltage 额定电压	12 V	24 V
	Nominal current draw 额定电流	0.62 A	0.33 A
	Thermistor R25C 温度传感器电阻	10,000 ohms +/- 2%	
	Thermistor Type 电阻类型	NTC	



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