

TV-400 Series

1-1/8" ULTRALOW PROFILE INTERNAL SOLENOID TANK VALVE 1-1/8" 超级薄内置电磁阀式瓶口阀

Key Features

GFI's (patented ultralow profile) in-tank solenoid technology not only provides impact protection for high pressure gas applications, it protects against environmental conditions such as thermal shock, water intrusion and corrosion.

Additionally, all connections are radial to the tank neck to minimize space requirements and maximize onboard fuel storage.

- Compatible with cylinder types (1, 2, 3 and 4) from steel to full composite versions
- The solenoid lock-off is integrated inside the cylinder, providing impact protection
- Light weight forged aluminium body allows an industry leading 22mm profile (31mm for the vented model). The low profile allows more room to optimize tank packages
- High flow temperature activated pressure relief device (T-PRD) installed recessed into the valve body and available in Cadmium free eutectic and glass bulb technology
- Optional burst disk mounted parallel with T-PRD to allow for only one pipe way
- 12V and 24V solenoid coils available with saturation or peak and hold control
- Live port with pipe away PRD option

主要特性

GFI具有专利技术的电磁瓶口阀把线圈和阀芯设计在气瓶内部，这样不仅可以保护它们不受外界碰撞的影响，而且可以避免温度冲击、水侵或腐蚀等外界环境影响。此外，该瓶口阀所有的接头都是沿气瓶嘴径向布置，节省空间。

- 兼容第1/2/3/4类CNG气瓶；
- 电磁切断阀位于气瓶内部，碰撞发生时能有效保护不受损坏；
- 轻量化锻铝机体，业界领先的22mm机体厚度，节省空间；
- 集成温度型大流量压力释放阀，可以选非镉式易熔金属或者温控玻璃管技术；
- 爆破片和T-PRD平行布置，可以共用一个泄压管；
- 兼容12V或者24V系统，支持饱和电流或者拉升保持的控制方式；
- 预留PRD泄压孔。



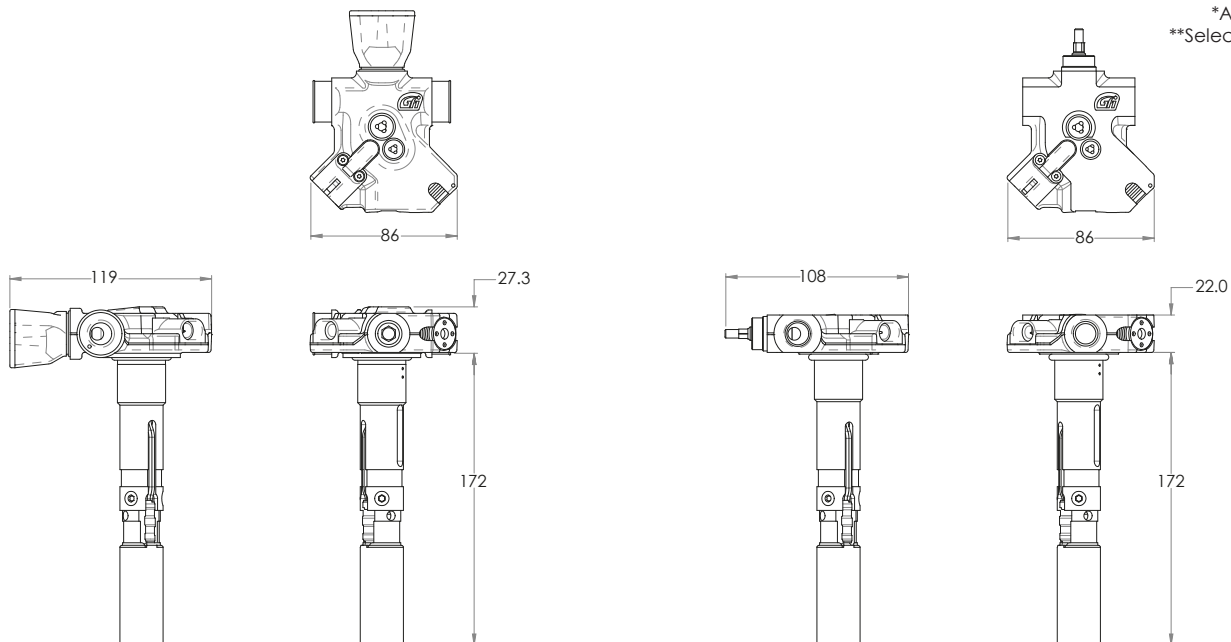
TV-400 non-vented



TV-400 vented

SPECIFICATIONS 技术参数

TV-400 Series			
GENERAL INFORMATION 基本参数			
APPLICATION 应用	CNG Tank Valve for Type 1 / Type 2 / Type 3 / Type 4 cylinders 适用于1/2/3/4类气瓶		
DESIGN 设计	Automatic, Internal Solenoid 内置式自动控制阀		
BODY MATERIAL 机体材料	Forged Aluminum 锻铝		
FUEL TYPE 燃气类型	Compressed Natural Gas (Validated with G20 and C25 CNG)		
PERFORMANCE 性能			
FLOW RATE (CV) 流量	0.9		
MAX WORKING PRESSURE 最大工作压力	31 MPa (4,500 psig)		
WORKING TEMPERATURE 工作温度	-40°C to 85°C (-40°F to 185°F)		
T-PRD	Design 工作原理	Eutectic (Cadmium Free) 易熔合金	Glass Bulb 温控玻璃管
	Activation Temp 激活温度	109 +/- 3°C (228°F)	110 +/- 10°C (230°F)
	Venting performance 泄压口面积	Minimum area equivalent to 7 mm orifice	
BURST DISK (OPTION) 爆破片 (可选)	Available* 可选		
EXCESS FLOW DEVICE (EFD) 溢流阀	ΔP 0.65 MPa		
SOLENOID 电磁阀	Voltage 额定电压	12 V	24 V
	Power Consumption 额定功率	7.5 W	
	Control 控制	Saturated or PWM 饱和电流或者PWM	
LEAKAGE 泄漏	<10 ⁻⁴ mBar l/s Helium, external (<10 ⁻³ mBar l/s Helium, internal) 外部泄漏<10-4mBar l/s, 内部泄漏<10-3mBar l/s		
CONNECTIONS 连接			
CYLINDER CONNECTION 瓶口连接	1 - 1/8" UNF		
OUTLET THREAD TYPE 出口接头螺纹	9/16" - 18 UNF, M12x1, M14x1		
VENT THREAD TYPE 泄压阀规格	9/16" - 18 UNF		
ELECTRICAL CONNECTOR 接插件	AMP Super Seal (2 Pin) (2针)		
LIVE PORT - REMOTE PRD/DEFUELING 预留孔-远程 PRD/放气阀	Available** 部分型号可选		
APPROVALS 认证			
CERTIFICATIONS 认证	NGV 3.1-14, PRD 1-13, ECE R110, ISO 15500		



*All models
**Select models



ISO/TS 16949:2009 registered
ISO 9001:2008 registered