

H-PCV Series

FUEL CELL ELECTRONIC PRESSURE CONTROL VALVE (REGULATOR) 燃料电池电控调压阀

Key Features

Designed for hydrogen applications with up to 3 MPa (g) (435 psig) inlet pressure. The H-PCV series electronic pressure control valve is an electronic pressure regulator that delivers stable outlet pressures under varying fuel cell flow demands and inlet pressures. This H-PCV can also be integrated with a low pressure isolation valve such as the H-IVL family, a pressure relief valve (PRV), pressure sensors, filters and other desired options.

- Stable, electronically controlled outlet pressure
- Optional integrated low pressure isolation valve
- Optional integrated pressure sensor
- Optional integrated high flow Pressure Relief Valve (PRV)
- Wide range of pressure ranges available

主要特性

H-PCV系列电控调压阀最大入口压力为3Mpa，电控调压可以在不同入口压力和流量需求下提供稳定的出口压力。该调压阀可以集成低压截止阀、压力释放阀、压力传感器、滤清器以及客户定制的其他需求。

- 电控调压，出口压力稳定；
- 可选配集成低压电磁截止阀；
- 可选装压力传感器；
- 可选配集成大流量压力释放阀；
- 出口压力可调范围广。

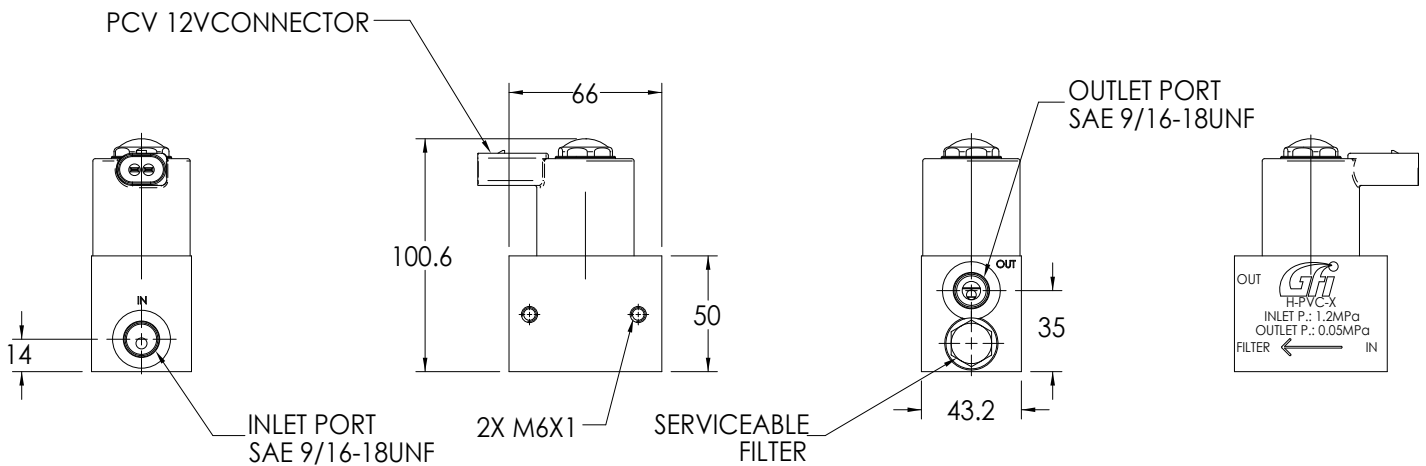


Engineered to meet International Standards and Regulations
 • Including ANSI HGV 3.1, ECE R134, EC 79/2009, and UN GTR No. 13.

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-PCV Series	
GENERAL INFORMATION 基本参数	
APPLICATION 应用	Hydrogen low pressure regulator
DESIGN 设计	Electronically controlled proportional valve
BODY MATERIAL 机体材料	Aluminum, anodized
FUEL TYPE 燃气类型	Hydrogen
PERFORMANCE 性能	
NOMINAL PRESSURE 名义入口压力	Configurable from 0.5 to 3 MPa (g)
REGULATED FLOW RATE 流量	Configurable; > 15 kg/hr hydrogen (@ 20°C)
OUTLET PRESSURE 出口压力	Configurable from 0.2 to 3 barg nominal; electronically controlled
WORKING TEMPERATURE 工作温度	-40°C to 120°C (-40°F to 248°F)
OPTIONAL PRESSURE RELIEF VALVE 全压力阀	Multiple settings available to be determined with customer
OPTIONAL FILTER (REPLACEABLE) 滤芯	40 μm, 99% efficiency 40 μm, 过滤效率99%
OPTIONAL PRESSURE SENSOR 压力传感器	Customer defined
COIL 线圈	12 V, PWM controlled, 5.7 ohm (@ 20°C)
CONNECTIONS 连接	
INLET THREAD TYPE 入口接头规格	9/16" - 18 UNF; other configurations possible
OUTLET THREAD TYPE 出口接头螺纹	9/16" - 18 UNF; other configurations possible



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