

H-PCM Series

FUEL CELL ELECTRONIC PRESSURE CONTROL MODULE (Regulator & Isolation Valve) 燃料电池电控调压模块

Key Features

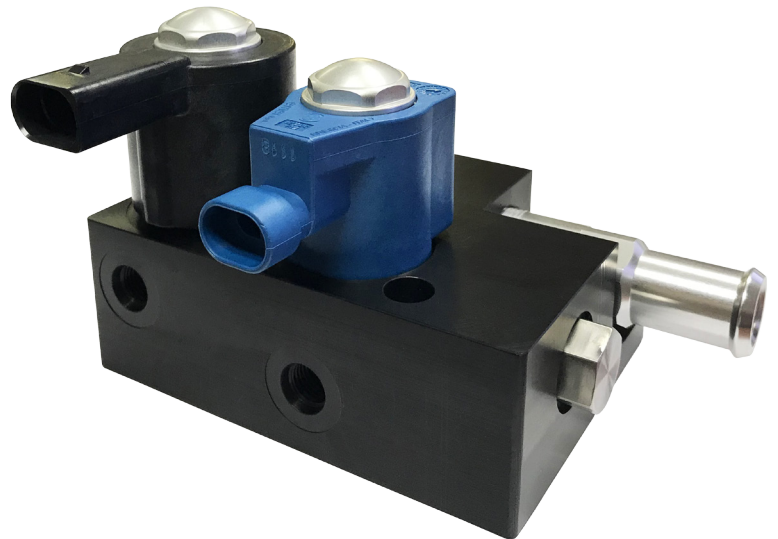
Designed for hydrogen applications with up to 3 Mpa(g) (435 psig) inlet pressure. The H-PCM series electronic Pressure Control Module (PCM) integrates GFI's Pressure Control Valve (PCV) and Low pressure Isolation Valve (IVL) along with a Pressure Relief Valve (PRV), filter and other customer defined features such as pressure sensor ports. This system is an electronic pressure regulator that delivers stable outlet pressures under varying fuel cell flow demands and inlet pressures with an integrated low pressure isolation valve. Each PCM is 100% functionally tested, Helium leak checked and serialized for complete traceability.

- Stable, electronically controlled outlet pressure
- Integrated low pressure isolation valve
- Integrated high flow Pressure Relief Valve (PRV)
- Integrated filter 40 or 10 micron filter
- Optional integrated pressure sensor and/or ports
- Wide range of pressure ranges available

主要特性

H-PCM系列电控调压器最大入口压力为3Mpa，该调压器集成GFI压力控制阀、低压截止阀、压力释放阀、滤清器以及客户定制的其他需求，比如压力传感器接口。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。产品在出厂前都经过100%的功能测试和氦气测漏，产品完全可追溯。

- 电控调压，出口压力稳定；
- 集成低压电磁截止阀；
- 集成大流量压力释放阀；
- 入口集成40 μm或10 μm滤芯；
- 可选装压力传感器；
- 出口压力可调范围广。



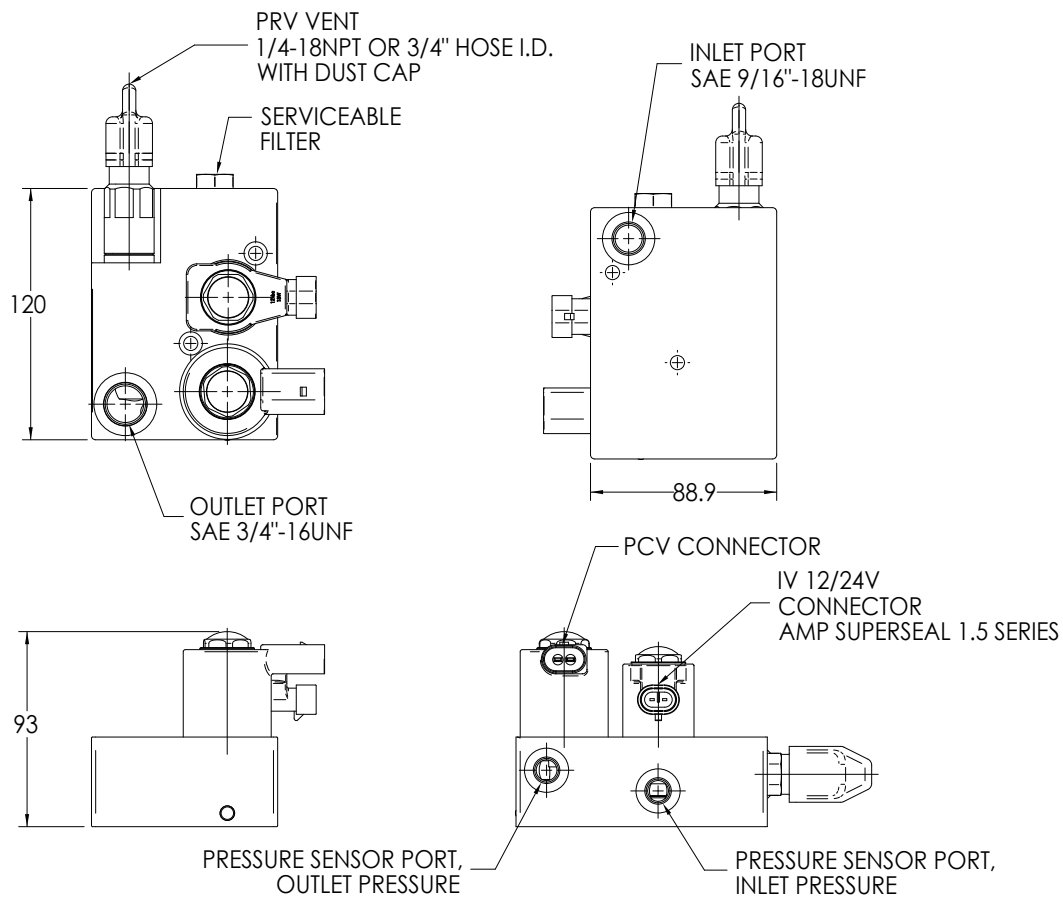
Engineered to meet International Standards and Regulations
 • Including ANSI HGV 3.1, ECE R134, EC 79/2009 and UN GTR No. 13.

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-PCM Series

GENERAL INFORMATION 基本参数	
APPLICATION 应用	Hydrogen low pressure regulator
DESIGN 设计	Electronically controlled proportional valve + isolation valve
BODY MATERIAL 机体材料	Aluminum, anodized
FUEL TYPE 燃气类型	Hydrogen
PERFORMANCE 性能	
NOMINAL INLET 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)
PRESSURE RELIEF VALVE 安全压力阀	Multiple settings available; to be determined with customer
FILTER (REPLACEABLE) 滤芯	40 micron and 10 micron available
OPTIONAL PRESSURE SENSOR OR PORT 可选装压力传感器	Customer defined
COIL - PROPORTIONAL VALVE 线圈-电控比例阀	12 V, PWM controlled, 5.7 ohm (@ 20°C)
COIL - ISOLATION VALVE 线圈-电磁截止阀	12 V: 10.6 ohm @ 20°C +/- 5%; 24 V: 44 ohms @ 20°C +/- 5% AMP Super seal 1.5 series, male, 2 way
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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