H-P35 Series

HIGH PERFORMANCE OEM QUALITY HYDROGEN PRESSURE REGULATOR

Key Features

Designed for hydrogen applications up to 35 Mpa (5,000 psi). The H-P35 Series Regulator delivers stable outlet pressures under varying fuel cell flow demands and inlet pressures. This regulator benefits from 25 years of evolution in CNG applications in order to be a reliable, cost effective product.

- Balanced design for stable outlet pressure at all tank pressures
- Optional integrated high pressure lock off valve
- Optional integrated high pressure sensor
- Heavy duty design validated to over 1.8 million cycles
- Integrated high flow Pressure Relief Valve (PRV)
- Wide range of factory set output pressures available

主要特性

H-P35系列产品适用于35Mpa氢气系统。该系列减压器的出口压力稳定, 可以满足不同燃料电池电堆的压力和流量需求，其设计基于超过25年的CNG减压器设计及制造经验，产品性能稳定，性价比高。

- 出口压力稳定;
- 集成式电磁截止阀可选;
- 集成式压力传感器可选;
- 专为重型车设计，耐久寿命为180万次循环;
- 集成大流量压力释放阀;
- 出口压力设置范围大。

Engineered to meet International Standards and Regulations

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

**Application**
Hydrogen high pressure regulator

**Design**
Balanced single stage, pintle and diaphragm type

**Body Material**
Forged Aluminum

**Fuel Type**
Hydrogen

## Performance

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Service Pressure</td>
<td>35 MPa (5,000 psi)</td>
</tr>
<tr>
<td>Regulated Flow Rate</td>
<td>Up to 10 g/s Hydrogen</td>
</tr>
<tr>
<td>Outlet Pressure</td>
<td>Factory adjustable: 200 to 1,000 kPa (29 to 145 psig)</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>-40°C to 120°C (-40°F to 248°F)</td>
</tr>
<tr>
<td>Pressure Relief Valve</td>
<td>Multiple settings available between 1,100 and 1,800 kPa (160 to 260 psig)</td>
</tr>
<tr>
<td>Filter (Replaceable)</td>
<td>40 µm, 99% efficiency 40 µm, 过滤效率99%</td>
</tr>
<tr>
<td>Pressure Sensor</td>
<td>Customer defined</td>
</tr>
</tbody>
</table>

## Connections

<table>
<thead>
<tr>
<th>Connection</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inlet Thread Type</td>
<td>9/16” - 18 UNF</td>
</tr>
<tr>
<td>Outlet Thread Type</td>
<td>3/4” - 16 UNF</td>
</tr>
<tr>
<td>PRV Interface</td>
<td>3/4” Hose Barb or 1/4”-18 Female NPT</td>
</tr>
<tr>
<td>Electrical Connector (solenoid)</td>
<td>AMP Super Seal AMP超级密封</td>
</tr>
</tbody>
</table>

## Specifications

- IATF 16949:2016 registered
- A Westport Fuel Systems company
- www.gficontrolsystems.com | gfsales@wfsinc.com