

# H2 High Pressure Regulator

## Hydrogen Fuel Systems



### Product Features:

- Heavy duty transportation grade pressure reducing regulator for environmentally harsh applications
- Designed for use in high pressure H2 systems up to 700 bar (10,000 psi)
- Dome pressure bias capable (1:1) ratio for turbocharged ICE applications
- Friction damped piston and poppet to reduce potential of flow oscillation
- Pressure balanced poppet for reduced supply pressure effect
- Wear resistant internals
- H2 compatible materials of construction
- Various outlet pressure levels available
- Available in both SAE J1926 o-ring and threaded cone and sleeve (Parker Autoclave) porting

### Typical Applications:

- H2 Fuel Systems
- H2 Fuel Cell Electric Vehicles (FCEVs)
- H2 ICEs
- Zero Emissions & Next Generation Powertrain Initiatives

### Key Design Attributes:

- 316L stainless steel construction throughout, lighter weight H2 compatible materials available
- Multiple mounting options / faces
- Low internal leakage (creep) seat design
- Captured piston bypass leakage
- Sealed bonnet and vent fitting for controlled external leakage
- Outlet pressure tolerance  $\pm 1.0$  bar at mass flowrate of 6 g/sec H2



Patent Pending Design

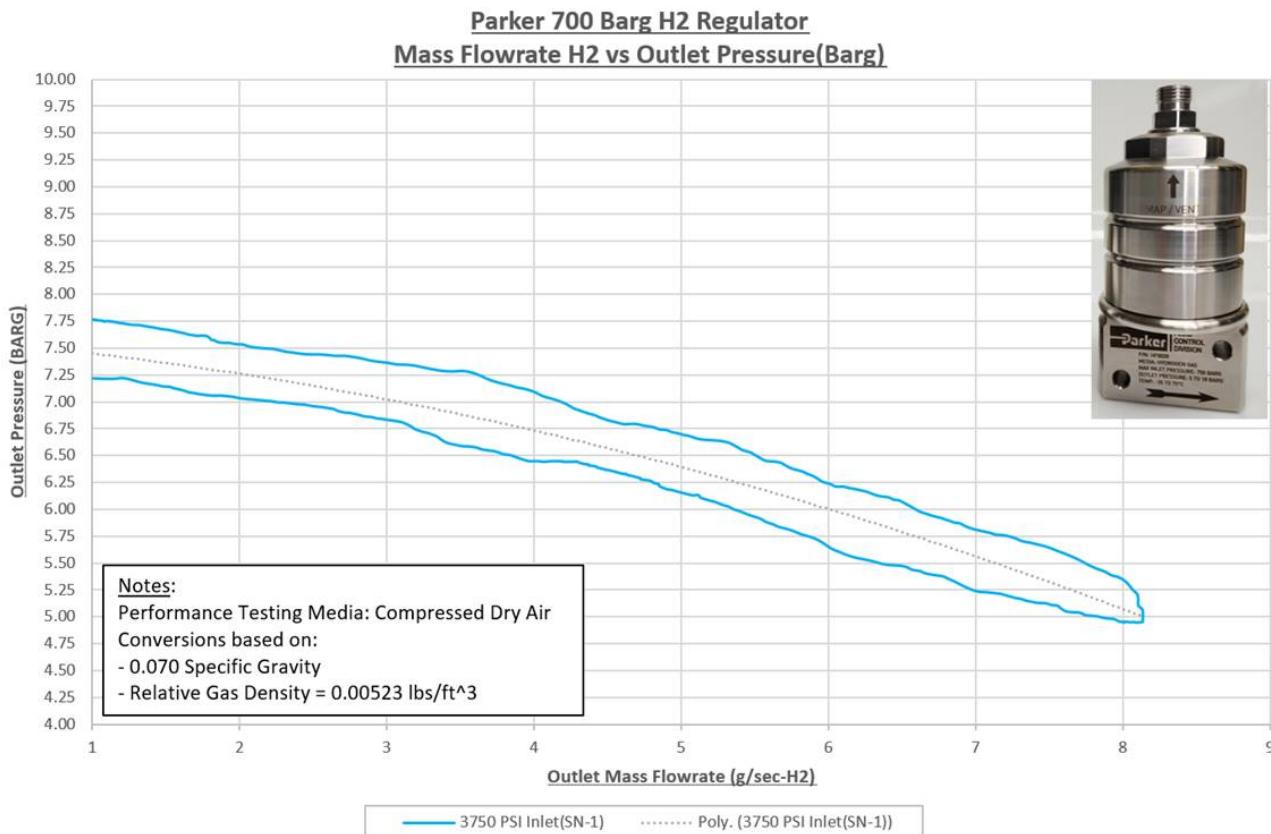


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## H2 High Pressure Regulator

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## Characteristic Flow Curve



# H2 High Pressure Regulator

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## Dimensions

