



Combustion



Hybrid

Explore our Technologies

Hydrogen Port Fuel Injection

for Passenger Cars and Commercial Vehicles

Hydrogen Port Fuel Injection

Hydrogen propulsion based on existing technology and able to leverage the available fuel supply network, is an attractive and fast-to-market solution for power-trains that contributes to the rapid decarbonization the World needs. It only requires adjustments to the internal combustion engine while meeting future emission regulation with zero CO₂. BorgWarner can supply customers with components as well as with complete turnkey applications.

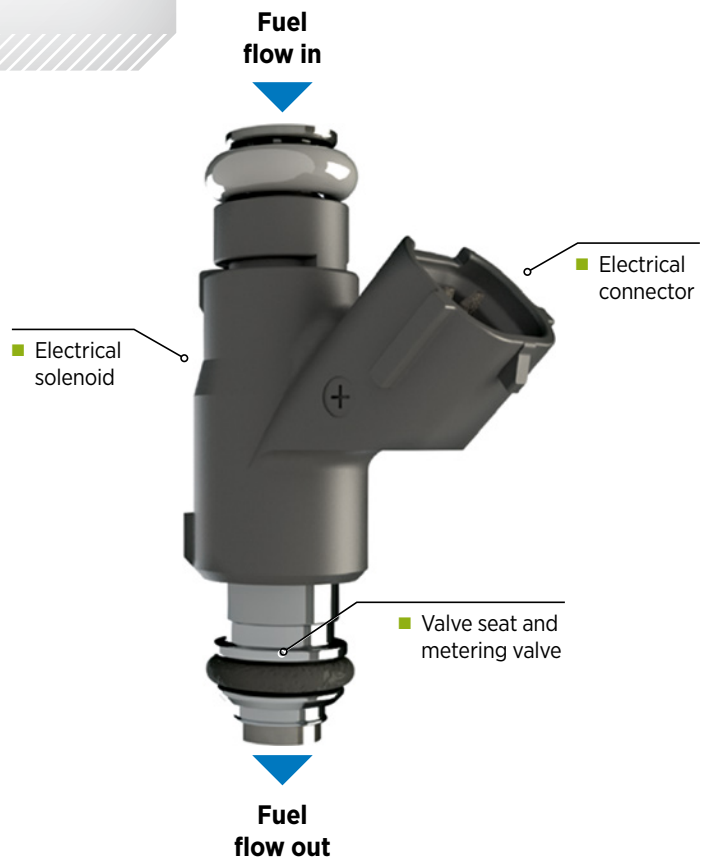
For low pressure applications, BorgWarner provides the PFI H₂ Injector. This injector is an evolution of the serial gaseous fuel injector upgraded for higher flow and reliable to operate with hydrogen.

Features and Benefits

- Applicable for internal combustion engines (ICE) and Fuel Cells
- Derived from production M3.5 CNG PFI Injector
- Compact package – Ø 17 mm solenoid OD
- Use of elastomer valve seal to prevent leak and enable quiet operation
- High opening force generated by optimized 7.6 Ω coil design for system pressure up to 10 bara
- Static flow at 10 bara: up to 1.44 g/s H₂
- Can be operated using cost effective saturated switch as well as higher performance peak & hold drivers
- Compatible with standard On Board Diagnostics (OBD) strategies

How it works

The solenoid provides a magnetic force, when energized, that pulls the valve open, allowing pressurized H₂ gas to flow through the slotted area in the seat to mix with intake air.



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For Additional BorgWarner Information:
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