

Short description

LPI Hydrogen injector



Designed for hydrogen port fuel injection, the LPI injector enables mobile off-highway applications and decentralised energy systems to significantly reduce greenhouse gas emissions in the future.

It allows high flow rates and is therefore suitable for engines with higher performance. Delivering exceptionally consistent injection quantity by maintaining a stable flow rate, the LPI ensures precise control and optimal engine performance. Utilising advanced sealing technologies, it is completely leakage-free, enhancing both safety and combustion stability. This port fuel injector is highly versatile, making it suitable for a broad range of engine sizes and power ratings, positioning it as the ideal choice for hydrogen engine fuel systems.

Features

- Robustness against high vibration values and various hydrogen purity classes
- Direct actuated injector
- Platform designed for 12 g/s @ 15 bar
- Gas-tight design
- Good dry running capabilities, no lube oil required
- Hermetically separated solenoid drive concept
- Top-feed and side-feed injector variants
- Integrated last chance filter

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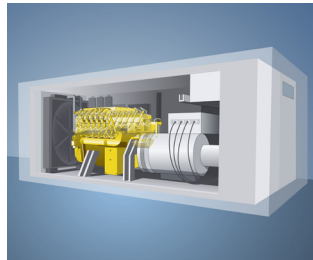
LPI Hydrogen injector

Technical information

| | |
|--------------------------------|---|
| System pressure | 2 – 15 bar |
| Max. pressure | 15 bar |
| Flow rate | 12 g/s @ 15 bar |
| Max. power per engine cylinder | ~ 65 kW/cyl |
| Min. quantity capability | ~ 2 mg/stroke |
| Weight | ~ 0.35 kg |
| Electrical connector | 2-pole connector, code A, contact pin 2.8x0.8 |
| Injector configuration | Top-feed or side-feed |
| Hydrogen fuel temperature | -40 °C to +120 °C |
| Filtration | Last chance filter |

Applications:

Agriculture / Forestry, Civil Engineering, Marine, Power Generation



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