

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.

The hydrogen injector 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



Injection systems

LIGO

LIEBHERR

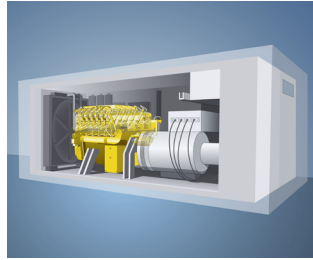
LPI Hydrogen injector

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
Fuel phase	gaseous

Applications:

Agriculture / Forestry, Civil Engineering, Marine, Power Generation



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