

Delphi

Explore our technologies

COMMON RAIL DIESEL INJECTORS

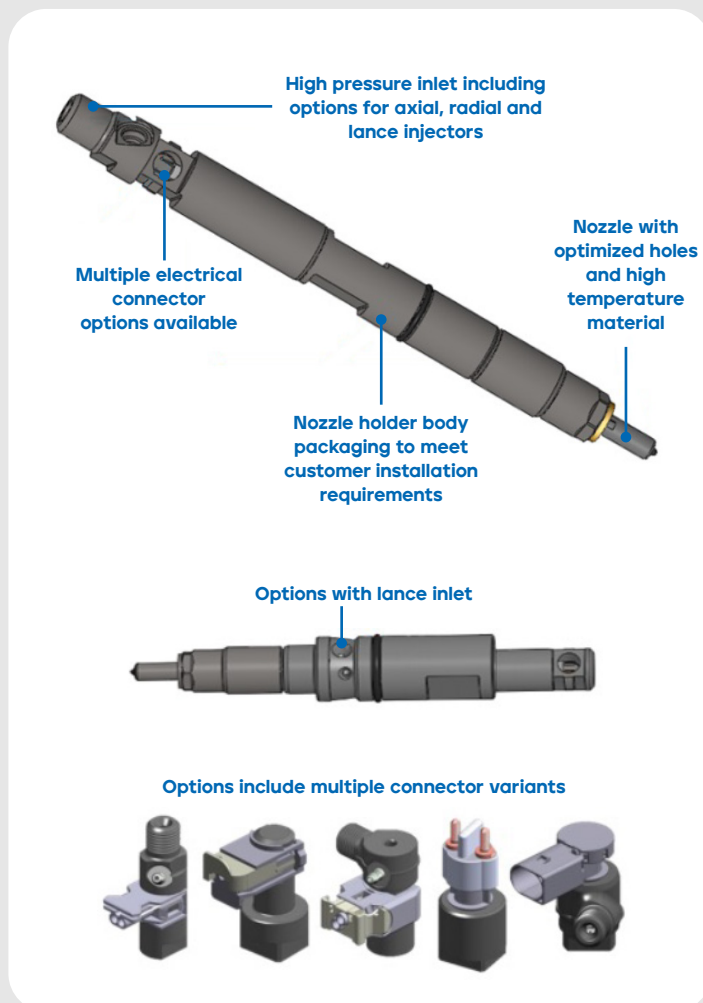
For Medium Duty Commercial Vehicles



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COMMON RAIL DIESEL INJECTORS

PHINIA's DFI2 family of injectors are designed for medium duty diesel on and off-highway applications up to 250kW (60kW/cyl). Customer specific engine installation solutions can be provided due to the small size and mass of the injector and PHINIA's ability to design and manufacture customer tailored solutions.



Features

- In production at 2,000bar, extendable to 2,200bar
- Can be customized to suit a range of existing engine applications
- Designed for 1.2Mkm lifetime

Design Features

- Pressure compensated control valve for static leak reduction
- Valves with enhanced wear resistant coatings
- Laser drilled inlet filter
- High temperature nozzle material

Performance

- 5–10 Cd controlled nozzle holes, 0.45–1.64+l/min @100bar
- Optimised injection rate
- Up to 9 injections per cycle
- Optimum stop and start capability with 80bar minimum injection

Benefits

- Sleeved valve technology with robustness to internal fuel deposits
- Increased erosion resistance to worldwide fuels
- Increased robustness to large particle contamination with inlet filter
- Rail pressure discharge capability enables HPV removal
- Closed loop control of injection quantity