# Delphi

Explore our technologies

# GASOLINE DIRECT INJECTION (GDI) FUEL PUMP

for Passenger Cars, Light Vehicles and Hybrids



## Delphi

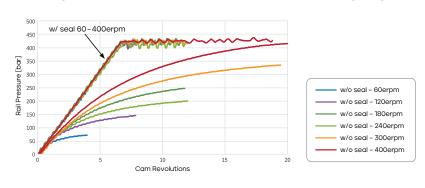
### Explore our technologies

# GDi FUEL PUMP

The Delphi pump is an engine driven single piston fuel pump providing high pressure for GDi engine applications. It exists in 2 versions, at 350bar and 500+bar, to cover the different market needs.

# Plunger ring seal design Pump body Plunger sleeve PRS Plunger

### Rail pressure build at low RPM: Standard vs PRS pump



### Plunger Ring Seal (PRS)

- Virtually eliminatesPlunger/Seal leak
- Cranking pressure rise improved
- Efficiency improved, particularly at low rpm
- Durable in various run environments
- Allows for pump/cam downsizing

### Features and benefits

- 500+bar for compliance with most stringent emissions regulations
- Packaging flexibility
- Corrosive fuel robustness
   DLC coated IV assembly & PRV
   Seat, ceramic ball
- Fuel compatibility E0 E100, M15
- The pump family offers full range of plunger sizes; 6, 7, 8mm up to 600bar, 10mm up to 350bar, 9mm up to 500bar
- GFP2 and Plunger Ring Seal (PRS) is the most efficient GDI pump in the market
- Low mass approx. 720 grams
- Low pressure pulsations due to different accumulator options
- Benchmark noise level:< 53 dB-A (750erpm, 5MPa)</li>
- In production since 2016 at 350bar, SOP in 2025 at 500bar