

# Delphi Diesel High Flow Transfer Fuel Pump

The Delphi Diesel High Flow Transfer Fuel Pump is a highly integrated, low cost in-tank transfer fuel pump (lift fuel pump) that provides reliable, uninterrupted flow of fuel at system pressure. It is designed specifically for diesel and bio-diesel applications.

The Delphi Diesel High Flow Transfer Fuel Pump offers a solution for diesel fuel transfer pump requirements and features a small package size and high performance capabilities.

### ▶ Benefits

- Integral pressure checking feature provides fast system pressure rise time for quick vehicle start-up
- Anti-siphon feature enhances safety by preventing fuel flow during vehicle impacts
- Carbon commutator technology provides improved durability and robust performance with both diesel and bio-diesel fuels
- Gerotor diesel transfer pump design meets a range of medium to high flow application requirements
- Fuel contamination will not degrade performance over time

### ▶ Typical Applications

The Delphi Diesel High Flow Transfer Fuel Pump is specifically designed for in-tank transfer fuel pump (lift fuel pump) requirements for compatible diesel fuel systems and bio-diesel applications, including passenger car, light truck, and commercial and off-road vehicle programs.

### ▶ Specification Data

- Maximum flow rate: Up to 190 liters per hour at 600 kPa pressure at 12 V
- Dimensions:
  - Total length: 120.3 mm
  - Diameter: 39 mm
  - Weight: 484 grams

### ▶ Performance Advantages

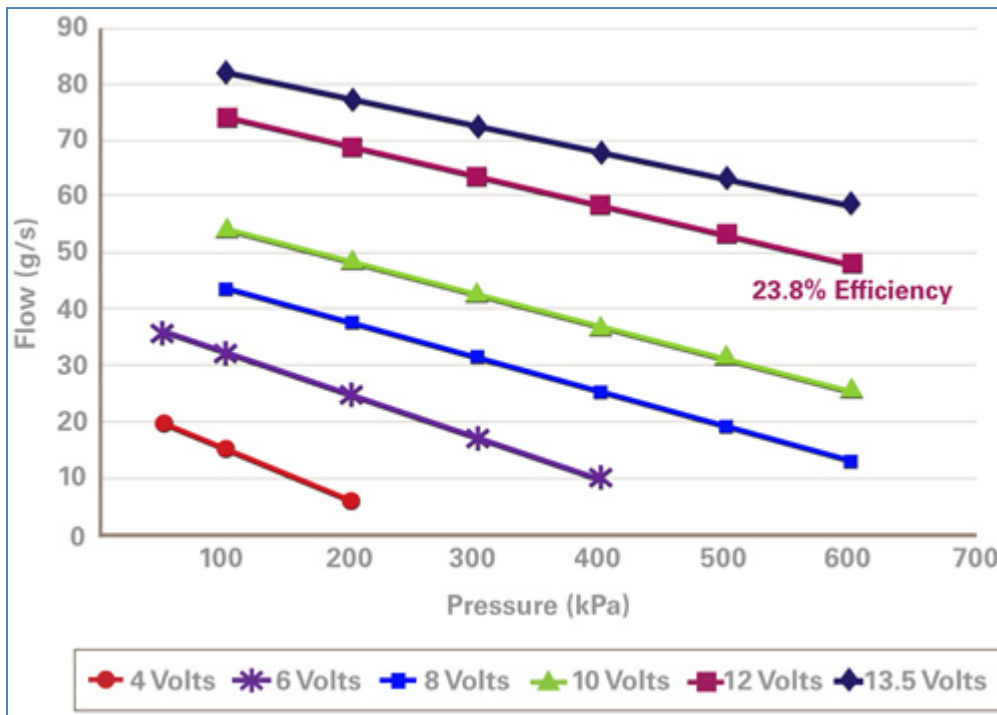
The Delphi Diesel High Flow Transfer Fuel Pump meets the requirements of most direct injection diesel (DID) systems. Its maximum flow rate of 190 liters per hour at 600 kPa pressure and 12 volts offers a common pump envelope that can fulfill many different application requirements for the manufacturer. In addition, it can offer high efficiency performance, as high as 25% efficiency (typically 22%), at 12 V.

The small size and relatively light weight of the Delphi Diesel High Flow Transfer Fuel Pump enable greater packaging flexibility and greater ease-of-assembly into a fuel tank system compared with competitive transfer fuel pumps for diesel systems.



**Delphi Diesel High Flow Transfer Fuel Pump**

▶ **Flow versus Pressure at Various Voltages**



This chart shows the performance curve of the Delphi Diesel High Flow Transfer Fuel Pump and demonstrates that it provides high flow at all voltage and pressures.

▶ **The Delphi Advantage**

Building on the benefits of more than 50 years' experience in fuel handling systems, Delphi is dedicated to the development of high quality, cost effective fuel handling technologies for integration with current and new engine designs. Delphi engineers hold numerous fuel handling trade secrets and many patents for fuel modules and fuel pump design. Delphi engineers understand the complex array of issues involved in efficient, reliable fuel handling performance. Delphi also has full capabilities to support fuel handling systems development, validation and production.

As a global leader in engine management systems technology, Delphi can help manufacturers around the world meet emissions requirements, improve fuel economy and enhance performance. Delphi is a source for high value solutions and our systems expertise is built into every product. Delphi's flexible engineering approach encourages collaboration. And, Delphi has a thorough understanding of automotive markets around the world and a global network of resources.