

Delphi Series 7000 Fuel Module

Fuel modules are designed to provide uninterrupted flow of fuel to the engine at system pressure. Depending on customer needs, the Delphi Series 7000 Fuel Module can integrate a pump, fuel level sensor, fuel filter, reservoir with active and passive filling mechanisms, and regulator in a compact, modular package that is easy to install. The Delphi Series 7000 Fuel Module also offers an in-tank fuel filter with 10-12 μm filtration.

An active fill mechanism (jet pump) allows all fuel to be sent to the engine before stalling, helping extend the vehicle's driving range. The use of plastic flanges (covers) and nylon fuel lines helps eliminate corrosion of key components.

► Benefits

- Acetal cover can accommodate 116 mm tank opening to permit integrated filter in reservoir
- Single stage turbine pump provides quiet, energy efficient operation
- Active reservoir-fill mechanism (high pressure jet pump) to maintain fuel supply in reservoir
- Passive reservoir fill mechanism helps fill the reservoir at low-fuel volumes
- High capacity filter media helps supply clean fuel to the injection system
- Available with serviceable filter and pump

► Typical Applications

The Delphi Series 7000 Fuel Module is suitable for gasoline engine passenger car or light-duty truck applications with a returnless fuel system. The fuel pump is compatible with flexible fuel systems, so the module can be used with vehicle applications that require ethanol- and gasoline-blend fuels up to 100% ethanol. The Delphi Series 7000 Fuel Module can also be easily tailored for diesel engine applications.

► Performance Advantages

The Delphi Series 7000 Fuel Module provides superior low fuel handling and fuel level sensing performance with its enhanced bottom reference design. It also offers reduced noise levels and improved pump durability compared to conventional fuel modules. The simplicity of design also results in lower cost. This module is targeted to meet California ZEV requirements.

► 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.



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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.