

Delphi

Explore our technologies

FUEL PUMPS

For Gasoline and Diesel Fuel Systems



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Delphi Fuel Pumps are designed for a wide performance range of in-tank applications within the automotive, small engine and commercial vehicle markets. They provide uninterrupted fuel flow at system pressure, high efficiencies, excellent durability, and compatibility to harsh fuels.

Delphi's Brushless Fuel Pump Motors feature an innovative three phase design that is electrically commutated with a controller. They offer minimized power consumption, enable closed loop pressure control, provide diagnostic capabilities, and improve reliability by eliminating the mechanical brushes, which are the major source of wear in conventional brush motors.

End Cap Assembly

Provides interface for Electrical Connection (including Brushes) and Output Flow Port that connect to the Fuel Delivery System through the Deliver Module flange.

Motor Section

Brushless DC Motor used for maximum efficiency and durability. Modular design enables use of Brush Motor.

Pump Section

Gerotor gears used for Diesel Applications. Modular design enables drive of Regenerative and other options tuned for individual applications.

Motor Rotor

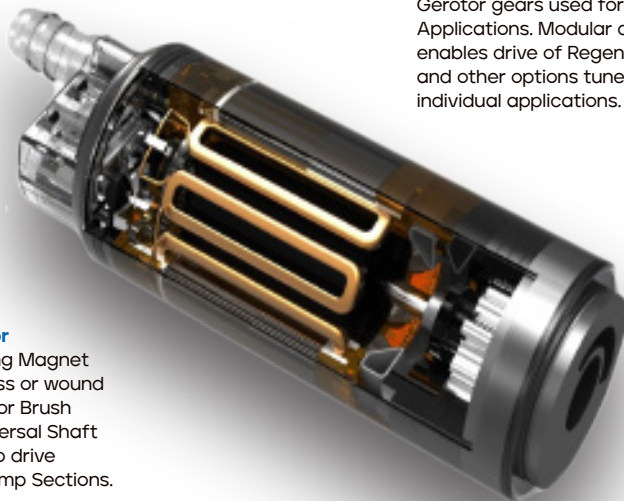
Multiple Ring Magnet for Brushless or wound armature for Brush Motor. Universal Shaft interface to drive multiple Pump Sections.

Strainer Interface

Filters contaminants from fuel to protect Pump Section.

Inlet Port

Fuel suction from within submerged Delivery Module Reservoir.



Features

- T1x and T4x Gasoline pump families
- G2x Diesel Pump family

Design Features

- Modular Design
- Integrated Check Valve
- Integrated Jet Tap
- Regenerative Turbine for Gasoline
- Positive Displacement Gerotor for Diesel
- Brush or Brushless Motors

Performance

- Gasoline Pumps for 200-600kPa and flows from 10-300lph
- Diesel Pumps for 400-600kPa and flows from 100-250lph
- Brushless motor offers 36% efficiency improvement
- Patented pump features to improved durability and efficiency

Benefits

- Best in class efficiency performance
- Performance capability above conventional pumps
- Package flexibility for high and low outputs
- Cost competitive designs for excellent value
- Accommodate harsh fuels without costly material upgrades
- Global manufacturing and technical support facilities

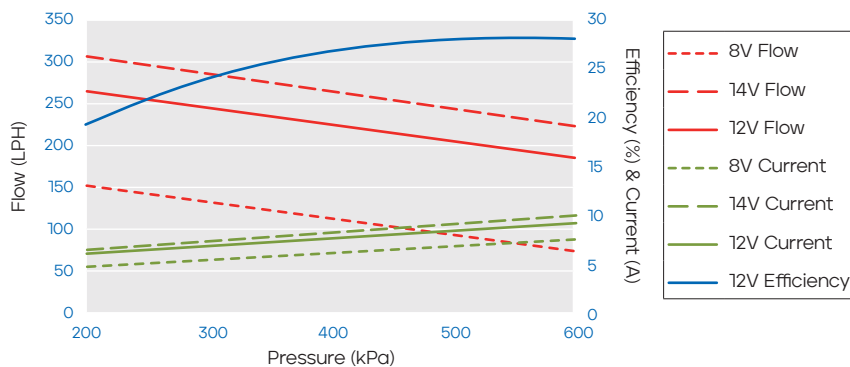
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Pump Application	Low Flow Gas	Mid to High Flow Gas	Diesel
Pump Family	T1x (T11, T12, T14)	T4x (T46, T47)	G23
Pump Type	Turbine	Turbine	Gerotor
Pump Section Material	Phenolic, Aluminium	Phenolic, Aluminium	Phenolic, Power Metal
Pump Diameter	30 mm	44 mm	39 mm
Motor Type	Brush	Brush, Brushless	Brush, Brushless
Fuel Compatibility	Gas, E100, M20	Gas, E85, E100, M20	Diesel
Highest Flow @ 400kPa	90lph	300lph	300lph
Applications	Automotive, Motorcycles, ATV, UTV, Marine, Snowmobile, Generators, Power Equipment		Automotive, Generators, Marine, Power Equipment

Gasoline Turbine Pump



Diesel Gerotor Pump

