

# Fuel supply

## Electric fuel pump and pressure regulator



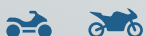
**BOSCH**  
Invented for life



### Product benefits

- ▶ Compact design, small size, and low weight
- ▶ Low power consumption
- ▶ Compatible with a wide range of fuels (gasoline, ethanol, "bad fuel")
- ▶ Pressure regulator: for port fuel injection and gasoline direct injection systems with regulated or non-regulated fuel supply (wide pressure range)

### Vehicle segments



### Electric fuel pump

- 1** Pump outlet with check valve
- 2** Pressure relief valve
- 3** Electrical connector
- 4** End support cover
- 5** Pump housing
- 6** Suction cover

### Pressure regulator

- 7** Housing
- 8** Filter screen
- 9** O-ring
- 10** Pin
- 11** Set screw

# robustness

**Increased lifetime** of the fuel pump – more than 3,000 h – enables reliable operation.

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**Task** The fuel pump is built into the fuel tank and supplies the right amount of fuel from the tank to the fuel injector. The integrated pressure regulator ensures that the fuel path has the required pressure.

## Technical characteristics of fuel pump

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Commutator	carbon or copper
Pump parts	metal
Compatibility	gasoline up to E20, "bad fuel"
Lifetime	> 3,000 h
Flow rate	16 l/h @ 12 V, 300 kPa up to 55 l/h @ 13,5 V, 400 kPa

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## Technical characteristics of pressure regulator

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Regulator type	coil spring
Valve seat sealing	rubber
Valve protection	filtration
Housing	metal
Pressure range	variable, 250 – 900 kPa

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