

Air management

Canister purge valve



BOSCH
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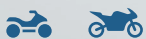


Product benefits

- ▶ Precise control of the air mass and small tolerances due to pressure equalization
- ▶ Modular design (plug, in- and outlet arrangement, variable air flow rate)
- ▶ Compact design and low weight

- 1** Inlet port
- 2** Interface for electrical connector
- 3** Outlet port

Vehicle segments



clean

Evaporative system with solenoid canister purge valve to **meet stricter limits** for HC emissions

Task With limits for evaporative hydrocarbon (HC) emissions being introduced into major two-wheeler markets, these vehicles require evaporative systems. Such systems minimize evaporative HC emissions by trapping the HC vapors from the tank using an activated charcoal filter. Some of the intake air is routed through this filter and carries the HC vapors into the combustion chamber, where they are burned as part of the air-fuel mixture. The solenoid canister purge valve meters this air flow according to the engine's operating state. Solenoid valves are required to meet strict limits on HC emissions in the exhaust gas and to improve driving behavior.

Function The canister purge valve is a solenoid in a plastic housing and is controlled by the engine control unit.

Technical characteristics

Max. flow rate range	3 – 5 m ³ /h at $\Delta p = 700$ mbar
Operating voltage	9 – 16 V
Electrical resistance	17 ohms
Frequency range	6.25 – 30 Hz
Operating temperature	-40 °C to 140 °C
Lifetime	200 million cycles
