

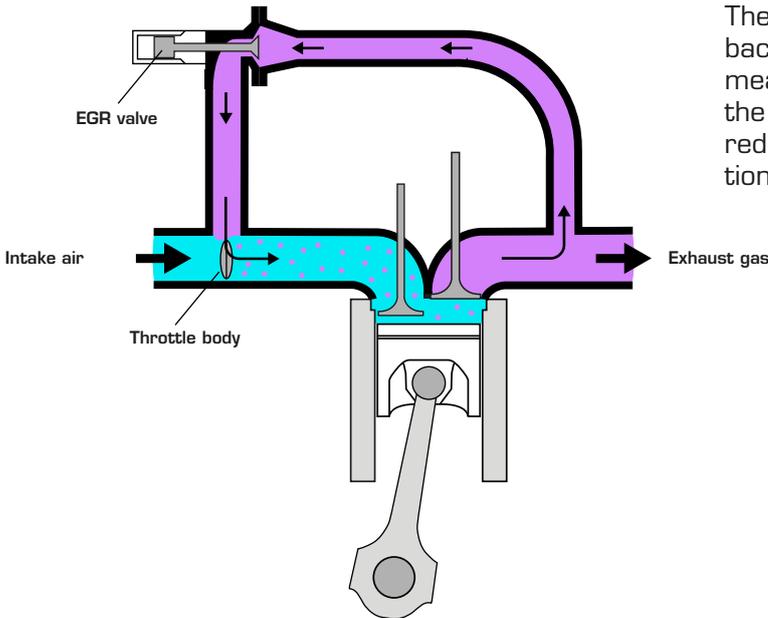


Technical info

EGR valves

EGR is an abbreviation for Exhaust Gas Recirculation. The EGR valves are mounted on both gasoline and diesel engines. The EGR valve is meant to reduce the engine's emissions of NOx particles.

System design



Function

The system works by directing a portion of exhaust gas back into the intake to combust again. This is done by means of a control valve which is positioned between the exhaust and intake manifold. This results in a reduced pollution effect under almost all driving conditions, however, most significantly at part load.

Types

There are two types of EGR valves:

- Vacuum controlled
- Electrically controlled

Quality

Quality management according to TS 16 949.

100% functional test of every sensor.

Error codes

The EGR system is often the cause of a failure. A major reason is that the hot exhaust gas is difficult to handle for components with moving parts. In addition to this come sooting problems. The result of this is often that the EGR valve gets stuck in a random position where it is more or less constantly open.

However, the engine control unit cannot handle the EGR valve being (partly) open at high engine rotations and engine loads. Thereby the engine loses significant effect. This is recorded by the engine's control system, which then activates the engine lamp. But also hose leaks at the vacuum-controlled EGR valves and faulty wiring or relays at the electrically controlled EGR valve are frequent sources of errors. If an EGR valve during driving gets stuck in the full open state, it is not possible to start the car.

Numbering system

8813 YY ZZZZZ: 8813=product group, YY=car make, ZZZZZ=consecutive numbering