

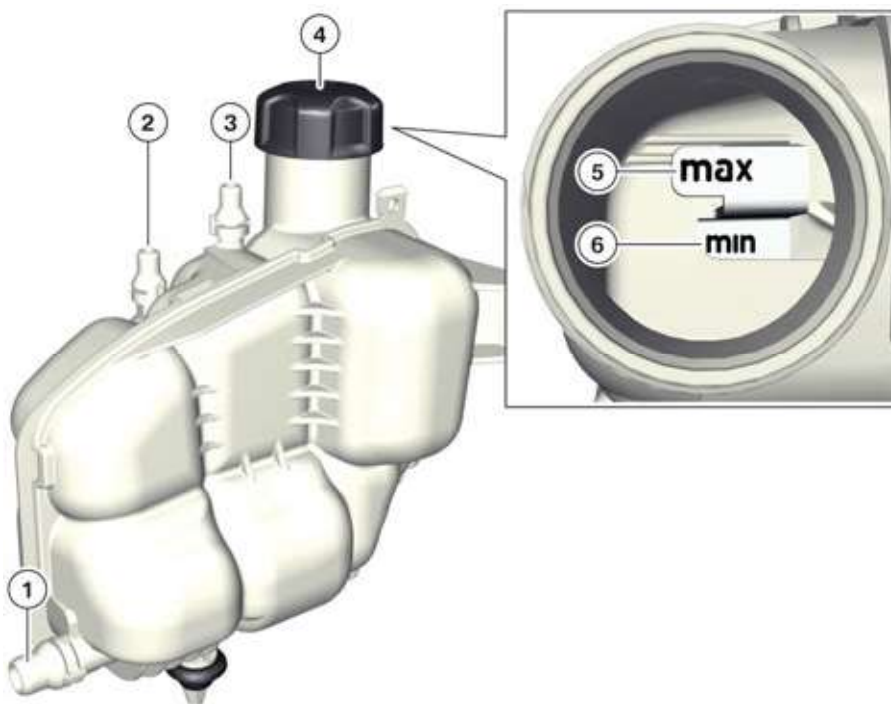
# B46 Engine

## 4. Cooling System

The coolant pump forms one unit with the characteristic map thermostat. The coolant pump housing is made from the aluminium alloy ALSi9Cu3, the impeller and the thermostat cover are made of plastic.

The Digital Motor Electronics controls the cooling circuit via a map-controlled thermostat.

### 4.5. Expansion tank



Expansion tank

Index	Explanation
1	Coolant line, coolant expansion tank output
2	Tank ventilation line from the cylinder head
3	Ventilation line of the radiator
4	Sealing cap
5	Visible filling level indicator "Maximum"
6	Visible filling level indicator "Minimum"

The expansion tank is used as a reservoir for the coolant. The expansion tank ensures that there is always a sufficient quantity of coolant available in the cooling circuit.

In the sealing cap there is a pressure relief valve which restricts the pressure in the system.

The sealing cap must never be opened when the engine is hot. The reason for this is not just the risk of burning. In higher areas of the cooling circuit, such as the cylinder head, gas bubbles may form as a result of the loss of pressure. Sufficient heat dissipation is no longer guaranteed at these points. This would result in overheating.