

Crankcase Ventilation

The crankcase is ventilated through both cylinder heads. The valve covers incorporate a large settling space. This space acts as a gravity-type oil separator. A fine oil separator is connected to the valve covers by means of plastic hoses.

A control piston, a bypass valve, a two-stage pressure limiting valve and an oil drain valve are integrated in the oil separator housing.

After the blow-by gas has passed through the fine oil separator, the gas flows into the intake manifold downstream of the throttle valve.

This inlet point is integrated in the coolant circulation system and heated. This prevents the crankcase breather from freezing up.

Note:

Modifications after start of production

In both engines, the separated oil flows into the crankcase through the cover in the inner V, adjacent the crankcase breather (no longer through the chain housing).

In the Audi Q7 engine, the crankcase is vented through a single chamber, i.e., via bank 2 only. Better icing protection is achieved in this way.

