Hydraulic valve lash adjustment

Labyrinth type tappet

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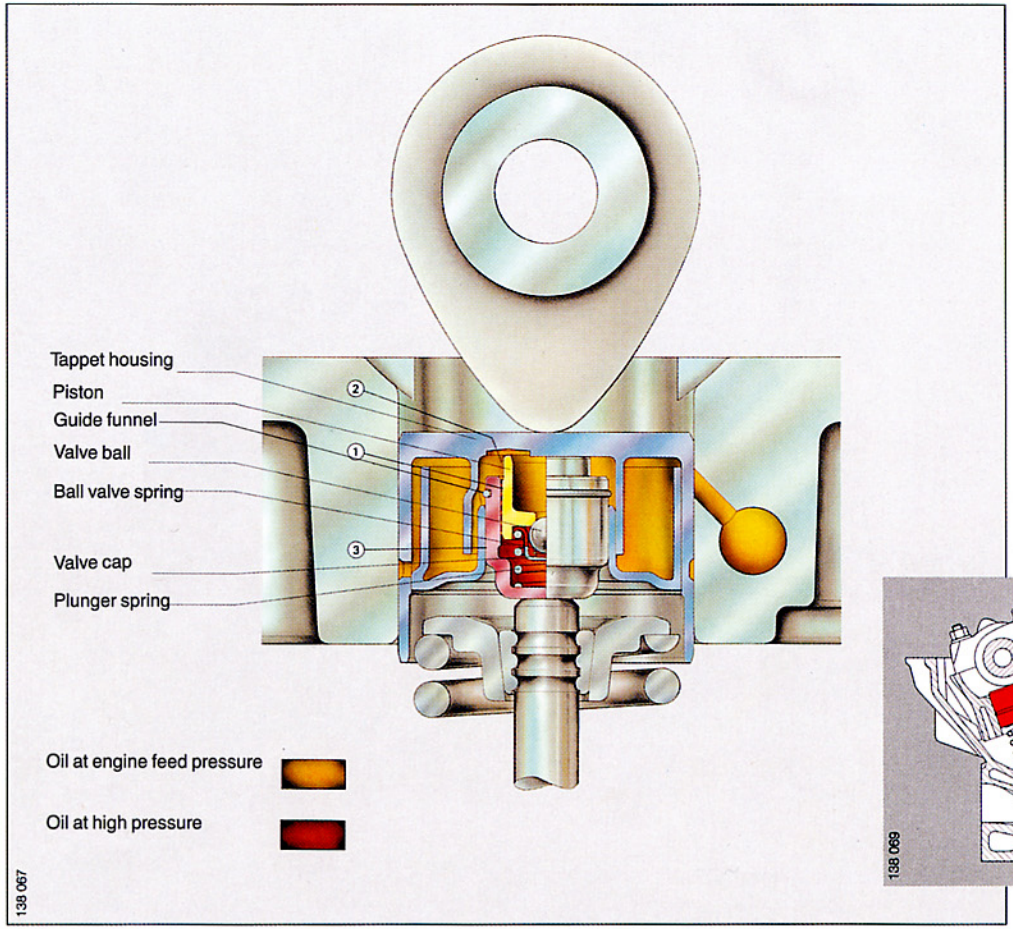

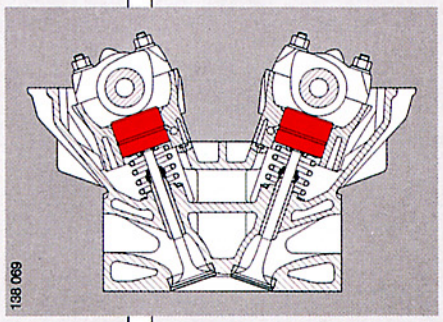

Sink down phase (cam lift)

- The tappet is loaded
  by the engine valve spring force and inertia forces.
- The distance between the piston and the plunger is reduced.
  A small amount of oil is forced from the high pressure chamber through the leakage gap ① and returned to the inner oil reservoir ②.
- At the end of the sink down phase, there is a small clearance in the valve drive.
- A small quantity of oil-air is forced out through the inlet hole and/or guidance gap ③.

Adjustment phase (base circle)

- The plunger spring pushes the piston and the guide funnel apart
  until the valve clearance is adjusted.
- The one-way ball valve opens
  due to the difference in pressure between the high pressure chamber and the inner oil reservoir. Oil flows from the outer oil reservoir through the oil transfer recess, inner oil reservoir and the one-way ball valve into the high pressure chamber ④.
- The one-way ball valve closes, once the contact in the valve drive is restored.

Sach-Nr. 002-043-130/IVT GB-D 0703.5