

Checking pressure retention valve in fuel return line

The pressure retention valve maintains a residual pressure of approx. 10 bar in the fuel return line.

This residual pressure is required for the control function of the injectors

Special tools and workshop equipment required

⌚ Tester for fuel return system -VAS 6330-



WARNING

- ⌚ **Always read rules for cleanliness and instructions for working on fuel system → Chapter**
- ⌚ **Follow these instructions and rules for cleanliness before starting work and while working on the fuel system.**

- Remove engine cover panel → Chapter.
- Clean return line connection on cylinder 1 (with commercial cleaning solution or similar) before removing.
- Dry return line connection on cylinder 1.
- Cover return line connection on cylinder 1 with a cloth.
- Pull return line connection off cylinder 1; to do so, press both tabs down and at the same time pull centre piece up to release connection.



Note

No dirt must be allowed to get into the disconnected return line or the open connection on the injector.

- Fit tester for fuel return system -VAS 6330- between return line connection and fuel return line.
- Start engine.
- Check pressure indicated on tester.

⌚ Specification: approx. 10 bar

If the value does not match the specification, fit a new pressure retention valve.

Installing fuel return lines

- Renew O-ring for return line connection.



Note

Lubricate all seals with engine oil or assembly oil before installing.

- Push the return line connection carefully over the new seal and onto the injector. The catch should engage audibly. Then press release pin down carefully.
- Erase entry in event memory using a diagnostic tester.
- Check fuel system for leaks → Chapter.

