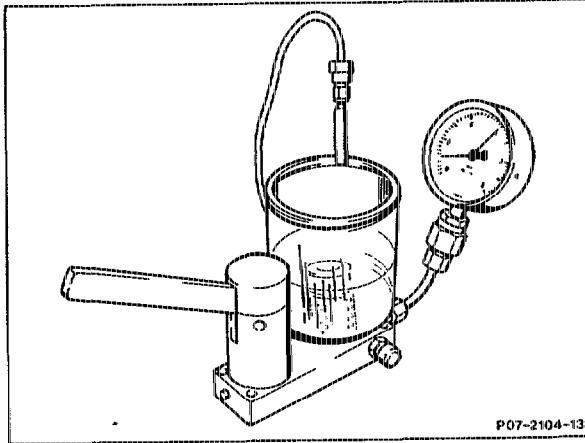


## 07.3-6500 Testing injection valves

Preceding work:  
Removing and installing injection valves (07.3-6520)

Operation No. of operation texts and work units or standard texts  
and flat rates:  
07-6500



### Note

The chatter test and the assessment of the spray jet do not require to be performed on injection valves with Viton seal seat.

### Testing for leaks and opening pressure

Injection valve .....	connect to tester.
Pressure line .....	bleed with shutoff cock open and union nut open.
Union nut .....	tighten.
Rough leak test .....	perform. With shutoff cock open, slowly operate hand lever (approx. 2 s/stroke) and build up pressure to max. 1.5 bar. If a leak is detected at the injection valve, the injection valve must be replaced.
Opening pressure .....	check. Flush through injection valve by operating hand lever rapidly several times with the shutoff cock closed. Open shutoff cock and check opening pressure with slow movement of hand lever (approx. 2 s/stroke).

Leak test .....

perform.

Flush through injection valve by operating hand lever rapidly several times with shutoff cock closed.

Open shutoff cock and slowly increase pressure up to 0.5 bar below the opening pressure determined previously, and maintain this pressure. No drop should form at the injection valve within 15 seconds.

#### Test data

Opening pressure of injection valves	new injection valves	4.3 – 4.6 bar gauge pressure
	used injection valves	at least 3.7 bar gauge pressure

#### Tightening torques in Nm

Injection lines to fuel distributor (approx. value)	10 – 12
Injection lines to injection valves (approx. value)	10 – 15

#### Commercially available tools and testers

Designation	e. g. Make, Order No.
Valve tester	Bosch, KDJEP – 400
Nozzle tester EFEP 60 H <sup>1)</sup>	Bosch, 0 684 200 700
Pressure gauge 0 – 10 bar, pressure housing Ø 100 mm, quality class 1.0	Bosch, 1 687 231 000
Pipe line	Bosch, 1 680 750 001

<sup>1)</sup> Similar to previous nozzle tester. The pressure gauge listed or the pressure gauge of the pressure measuring device 100 589 13 21 00 is required for testing the injection valves.

#### Note

The tester reservoir must be filled and the unit bled before it is possible to commence the test of the injection valves. Use only kerosene for testing.

Replace injection valves which are beyond the tolerance limits. The injection valves can be replaced individually within a set.