

**Data**

Engine	Valve springs part No.	Color code	OD	Wire dia.	Length un-loaded	Spring force at preloaded length	when new N (kp)	limit value N (kp)
	optional		mm	mm	mm	mm		
116 117	inside spring 108 053 00 22 <sup>1)</sup> 130 053 00 22	yellow/brown or purple/brown	22.2 22.0–22.4	2.5	45	21	228–252	205
						21.5	235	224–246
	outside spring 100 053 01 20	yellow/red or purple/red	34.1–34.5	4.75	49	30.5	863	843–902

<sup>1)</sup> Engine 116.980/981, 982, 983, 990, 991, 992 and 993 only.

**Checkup**

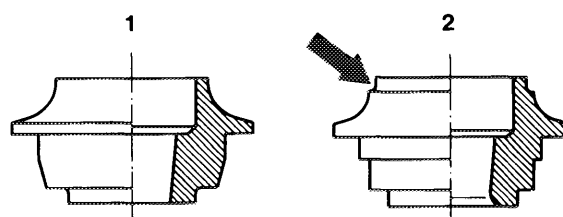
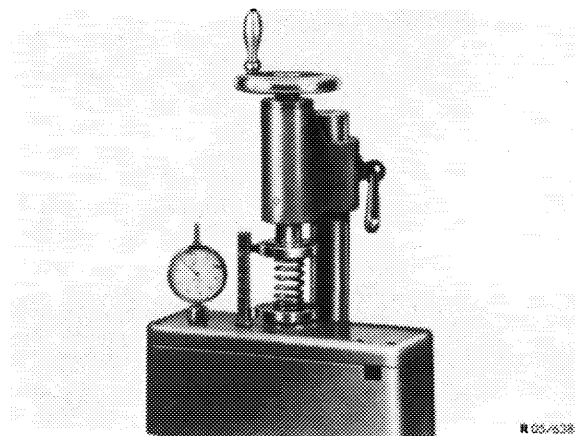
In the event of repairs, check valve springs prior to re-use for corrosion.

In addition, check spring force at specified length by means of a spring test scale. If values are less than the lower limit value, renew valve springs.

**Attention!**

Be sure to maintain limit values on engines with hydraulic valve clearance compensating elements. To make sure that this value is not less than specified on valves with a by now lower level (machined valve seats), use valve spring retainer, part no. 130 053 06 25.

This valve spring retainer (2) is identified by a machined groove (arrow).



- 1 Valve spring retainer, series
- 2 Valve spring retainer for increased spring force with machined groove

1054 - 9492