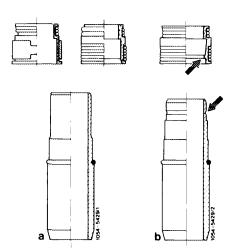
Valve clearance	with engine cold (approx. 20 °C)	with engine warm (60 $^{\circ}$ C $^{\pm}$ 15 $^{\circ}$ C)	
Intake	0.101)	0.151)	
Exhaust	0.20	0.25	
1) 0.05 mm higher during lasting outside	temperatures below -20 °C.		
Tightening torques		Nm	
Nuts for cylinder head cover		15	
Valve adjusting screws		20–40	
Special tools			
Magnetic lifter for valve cone halve	S 11004-6202	116 589 06 63 00	
Pressure lever for valve spring	F1004-7064	123 589 03 61 00	
Assembly mandrel for valve stem seals intake 9 mm dia.		116 589 00 43 00	
Assembly mandrel for valve stem seals exhaust 11 mm dia.	11004-6191	116 589 01 43 00	
Valve adjusting wrench 17 mm, 1/2	e" square	110 589 00 01 00	
Socket 27 mm, 1/2" square, for rotating engine	11004_8193	001 589 65 09 00	
Contact handle for rotating engine (component of compression pressu recorder (compressometer) 001 589 46 21 00)		001 589 46 21 08 4-8487	
Conventional tool			
Cylinder leak tester		e.g. made by Bosch, EFAW 210 A and by SUN, CLT 228	

Note

Valve stem seals including assembly sleeves are supplied in repair kit.

Exhaust valve guides which are worn out at holding groove for valve stem seal must be replaced (arrows).

a Intake b Exhaust

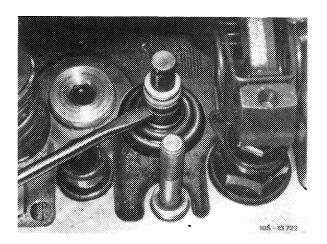


Renewing

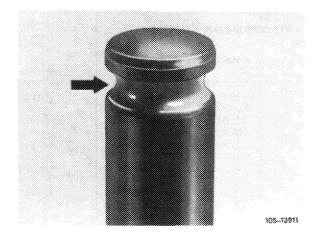
- 1 Remove valve springs (05-250).
- 2 Press off valve stems by means of a screw driver or pull off by means of pliers.

Attention!

Do not damage valve stem and valve guide.



- 3 Debur valve stem at groove (arrow).
- 4 Renew worn out valve cone halves, spring retainers and thrust pieces.



5 Lubricate valve stem seals and mount by means of assembly mandrel.

For this purpose, place assembly sleeve on valve stem.

- 6 Install valve springs (05-250).
- 7 Adjust valve clearance (05-210).

