

The valve stem seal assembly can be replaced without removing the cylinder head. Before removing the seal, the piston of the cylinder corresponding to the valve in question should be moved to the T.D.C. position.

The PC valve-stem seal assembly consists of a teflon seal (5), together with clamping ring and strap. The internal diameter of the seal differs in respect of intake and exhaust valves, the former being 9 mm and the latter 12 mm.

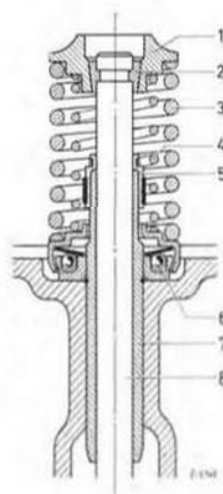


Fig. 05-2/1

## Intake and Exhaust Valve

- 1 Valve spring retainer
- 2 Valve cone half
- 3 External valve spring
- 4 Internal valve spring
- 5 Teflon seal with clamping ring and strap
- 6 Valve rotator (Rotocap)
- 7 Valve guide
- 8 Valve

## Removal:

1. Remove cylinder head cover.
2. Remove rocker arm (see Job No. 05-1).
3. Before removing the valve cone halves, the intake and exhaust valves must be held steady with the shop-made lever shown in Fig. 05-2/2, which is inserted in the spark-plug hole. If the valves are closed it is also possible to hold both intake and exhaust valve steady by means of the cylinder leakage test device CLT-228 or by means of a hose from the compressed air supply to the spark-plug bore, whereby the compression chamber is filled with compressed air, giving the necessary support.
4. Compress the valve springs with the special tool 112 589 08 61 00 and remove the valve cone halves. Remove valve springs and valve stem seal assembly.

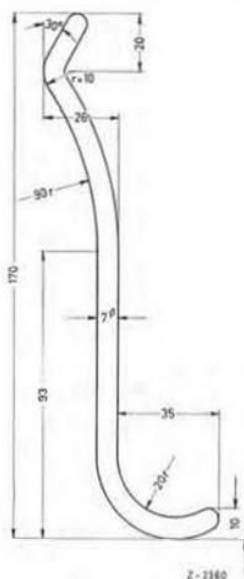


Fig. 05-2/2

Shop-made lever for holding intake and exhaust valves in position

## Installation:

5. In order to avoid damage to the teflon seal as a result of contact with the cut groove in the intake valve, a plastic fitting sleeve, Part No. 127 589 00 93 (which must be shortened to approx. 10 mm), must be placed in position to cover the intake valve when the PC valve-stem seal is fitted.

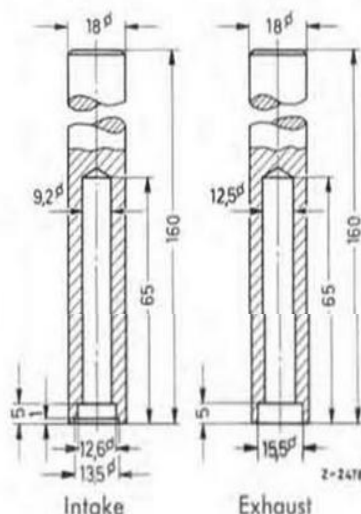


Fig. 05-2/3