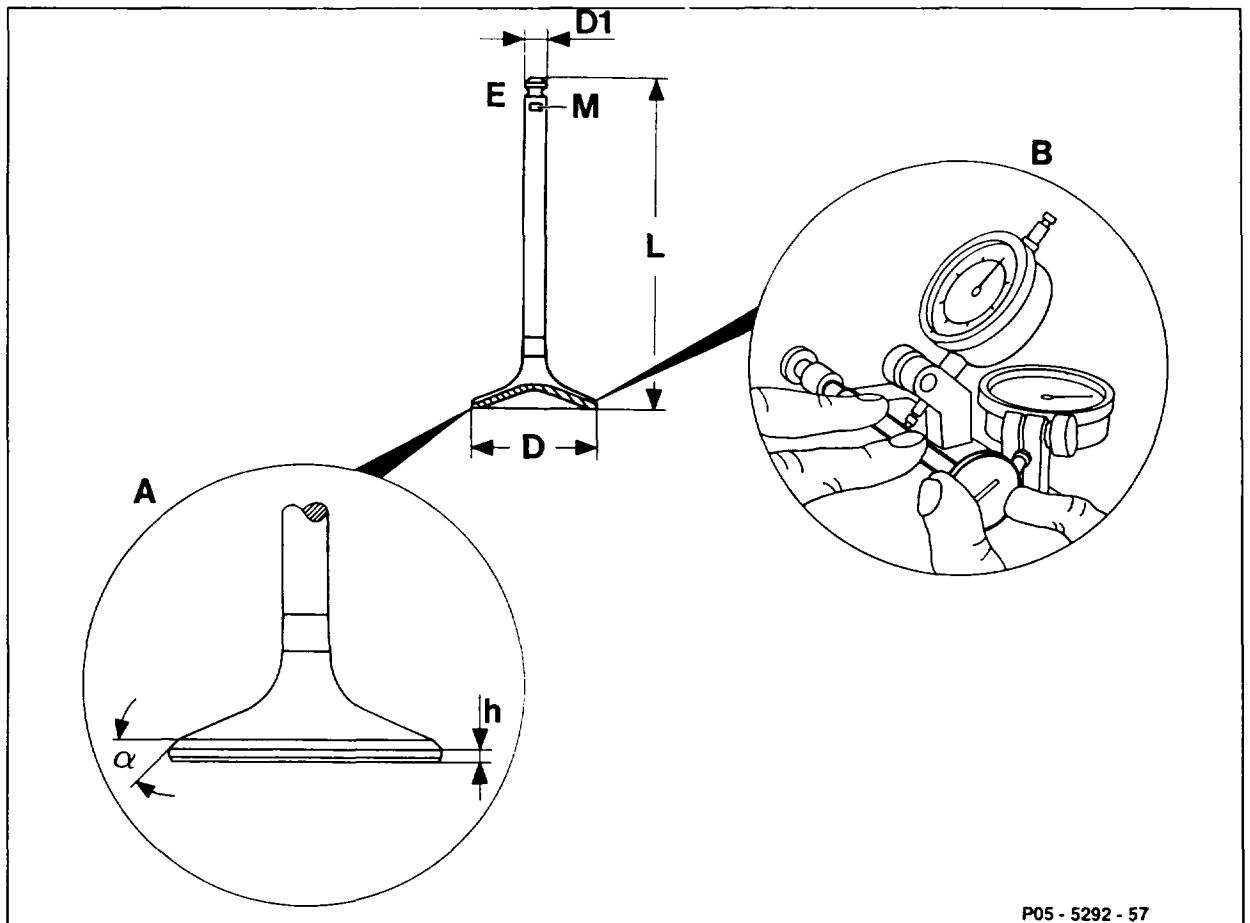


05-2895 Checking valves

Preceding work:
Valves removed (05-2500).



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Valves clean.

A Visual inspection

If valve disc scorched replace valve.
 If height "h" insufficient replace valve.
 If valve stem worn or scored replace valve, see note.
 Valve length (L) check; if the length (L) is exceeded (refer to table), the valve has stretched and should be replaced.

B Clamping valve in chuck

Valve seat check (see table for value).

Data

	Inlet valve		Exhaust valve	
Engine	103.94	103.98	103.94	103.98
Valve disc dia. D	40	43	35	39
Valve stem dia. D1	7.955 – 7.970		8.938 – 8.960	
Valve length L	110.2	110.2	112.4	110.9
Width of valve seat b	2.0			
Setting angle	45°			
Height "h" of valve disc	when new 1.7 limit value 1.2		when new 2.2 limit value 1.6	
Sodium filling	no		yes	
Permissible out-of-roundness at valve seat	0.03		0.03	
Marking "M" (at stem end)	E 103 15	E 103 20 ¹⁾ E 103 22 ²⁾	A 103 04 27	A 103 17 27

¹⁾ Engine 103.981/983

²⁾ Engine 103.985/987

Note

Modified exhaust valves engine 103.98.
Exhaust valves strengthened in the transition range from valve stem to valve disc.
When performing repairs, install only valves with the marking (M) according to the table. Indefinite production breakpoint as of September 1988.

Modified inlet valves. When performing repairs, install only valves with the marking (M) according to table. Indefinite production breakpoint as of February 1990.

After machining or replacing the valves, the installation position of the hydraulic valve clearance compensating elements must be checked (05-2130).

