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Test Specifications Distributor-type Fuel-injection Pumps

46

WPP 001/4 VW 1,5 a1

2. Edition:

En

supersedes 4.82
company VW
engine: EA 086/10

VE 4/9 F 2500 R 16
R 16 P

0 460 494 002
0 460 494 003

Overflow temperature 45° C

All test specifications are valid only for Bosch Fuel-injection Pump Test Benches and Testers

Test Instructions and Test Equipment

Pre-stroke setting -- mm

see VDT-W-460/..

Testoil-ISO 4113

1. Settings	Rot. speed rev/min	Settings	Charge-air press. bar (kgf/cm ²)	Difference in delivery cm ³
1.1 Timing device travel	1500	3,4-3,8 mm		
1.2 Supply pump pressure	1500	4,0-4,6 bar (kgf/cm ²)		2,5 (3,0)
1.3 Full-load delivery without charge-air pressure	1500	29,9-30,9 cm ³ /1000 strokes		
Full-load delivery with charge-air pressure	--	-- cm ³ /1000 strokes		
1.4 Idle speed regulation	415	6,0-10,0 cm ³ /1000 strokes		2,5 (3,0)
1.5 Start	100	min. 39,0 cm ³ /1000 strokes		
1.6 Full-load speed regulation	2670	13,5-19,5 cm ³ /1000 strokes		
1.7 Load-dependent start of delivery	--	--		

2. Test Specifications		checking values in brackets ()		
2.1 Timing device	n = rev/min mm	1000 1,3-2,1(1,0-2,4)	1500 (2,9-4,3)	2000 6,2-7,0(5,9-7,3)
2.2 Supply pump	n = rev/min bar (kgf/cm ²)	400 1,4-2,0		2200 5,9-6,5
Overflow delivery	n = rev/min cm ³ /10 s	500 55-111 (40-126)		2500 55-111 (40-126)
2.3 Fuel deliveries				3. Dimensions <small>for assembly and adjustment mm</small>
Speed control lever	Rot. speed rev/min	Fuel delivery cm ³ /1000 strokes	Charge-air press. bar (kgf/cm ²)	
End stop	2950 2820 2670 2500 1500 600	max. 4,0 max. 8,0 (12,5-20,5 25,7-27,7 (24,4-29,0) (28,1-32,7) 17,9-20,9 (15,4-22,4)		
switch-off elect.	400	bei 2,5 V 0		
Idle stop	1200 415	max. 3,0 (4,0-12,0)		
End stop	400 500	min. 15,0 max. 20,0		
2.4 Solenoid	max cut-in voltage	xxx min. 10 V xxxxxxxrated voltage 12V.		

Observations
* operating stroke (KSB)
** Two-piece control lever.
XK = 18,6-20,6 mm
XL = 9,1-12,8 mm

BOSCH

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