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Test Specifications Distributor-type Fuel-injection Pumps

46

WPP 001/4 VWV 1,6 b 1

3. Edition

En

VE 4/9 F 2400 R 66
0 460 494 048

Overflow temperature 45° C

supersedes 1.83
company: VWV
engine: 1,6 L

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/

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	2,9-3,3 mm		
1.2 Supply-pump pressure	1500	4,9-5,5 bar (kgf/cm ²)		
1.3 Full-load delivery with charge-air pressure	1500	31,5-32,5 cm ³ /1000 strokes		2,5(3,0)
Full-load delivery without charge-air pressure	415	6,6-10,0 cm ³ /1000 strokes		2,5(3,0)
1.4 Idle regulation	2600	11,0-17,0 cm ³ /1000 strokes		
1.5 Full-speed regulation	100	min. 35,0 cm ³ /1000 strokes		
1.6 Start	-			
1.7 Load-dependent port-closing				

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 (2,4-3,8)	2400 6,1-6,9 (5,8-7,2)
2.2 Supply pump	n = rev/min bar (kgf/cm ²)	400 2,1-2,7		2400 7,0-7,6
Overflow delivery	n = rev/min cm ³ /10 s	500 55-138 (40-153)		2400 55-138 (40-153)

2.3 Fuel deliveries

Speed control lever	Rot. speed rev/min	Fuel delivery cm ³ /1000 strokes	Charge-air press. bar (kgf/cm ²)
End stop	2700 2600 2400 1500 600	2,5-9,5 (2,0-10,0) (10,0-18,0) 27,0-29,0(25,7-30,3) (29,7-34,3) 20,5-23,5(18,0-26,0)	
switch-off elektr.	400	0	
Idle stop	1200 600 415	max. 3,0 max. 6,0 (4,0-12,0)	
End stop	400 500	min. 17,0 max. 22,5	
2.4 Solenoid	max. cut-in voltage test voltage	xx min. 10 V 12V	

3. Dimensions

for assembly
and adjustment
mm

Designation	mm
K	3,2-3,4
KF	5,7-5,9
MS	1,3-1,5
svs	max. 2,5
FH*)	1,8 - 2,4
Λ K	18,4-20,4
Λ L	9,1-12,9

Observations

*operating
stroke (KSB)

BOSCH

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