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Test Specifications Distributor-type Fuel-injection Pumps

46

WPP 001/4 OPE 2,3 h

2. Edition

Test ISO 4113

VE 4/10 F 2100 L 156
D 460 404 037

Overflow temperature 45° C

10-84
superseded by
company: Opel
engine: 2,3 TD

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	5,1-5,5 mm	0,8	
1.2 Supply-pump pressure	1500	5,0-5,6 bar (kgf/cm ²)	0,8	
1.3 Full-load delivery with charge-air pressure	1200	58,5-59,5 cm ³ /1000 strokes	0,8	3,0
Full-load delivery without charge-air pressure	500	36,0-37,0 cm ³ /1000 strokes	0	
1.4 Idle regulation	290	13,5-17,5 cm ³ /1000 strokes	0	3,0
1.5 Full-speed regulation	2425	15,0-21,0 cm ³ /1000 strokes	0,8	
1.6 Start	100	min. 48,0 cm ³ /1000 strokes	0	
1.7 Load-dependent port-closing	1500		0	

2. Test Specifications		checking values in brackets ()			
2.1 Timing device	n = rev/min mm	800 1,5-2,3(1,2-2,6)	1200 3,4-4,0(3,0-4,4)	1500 (4,6-6,0)	2100 7,9-8,7(7,6-9,0)
2.2 Supply pump	n = rev/min bar (kgf/cm ²)	500 2,7-3,3 (0 bar)	1200 4,4-5,0(0,8 bar)	2100 6,4-7,0 (0,8 bar)	
Overflow delivery	n = rev/min cm ³ /10 s	500(0 bar) 55-138 (40-153)		2100 (0,8 bar) 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	2550	max. 6,0	0,8
	2425	(13,5-22,5)	0,8
	2300	28,5-35,5 (27,5-36,5)	0,8
	2100	46,3-48,7 (44,8-50,1)	0,8
	1200	(56,3-61,6)	0,8
	800*	43,5-44,5 (41,3-46,6)	0,3
	500	(33,1-39,9)	0
switch-off	2100		
Idle stop	380	max. 2,5	
	320	7,0-13,0 (5,5-14,5)	
	290	(11,0-20,0)	
	250	min. 50,0	
	400	max. 47,0	
2.4 Solenoid	max. cut-in voltage	XXX min. 10 V	
	rated voltage	12V.	

3. Dimensions	
Designation	for assembly and adjustment mm
K	3,2-3,4
KF	5,7-5,9
MS	0,9-1,1
SVS	max. 3,0
*FH	1,8-2,4
A	
B	
Observations	
Manifold-pressure compensator stroke = 6,2 mm	
Correction at the adjusting nut. (46)	
*operating stroke (KSB)	

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