

Test Specifications Distributor-type Fuel-injection Pumps

Testoil-ISO 4113

VE 4/9 F 2300 R 82; VE ... R 82-1

O 460 494 071

O 460 494 114

supersedes 08.84

company: Opel

engine: 2033-1,6 l

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/...

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	3,1-3,5 mm		
1.2 Supply-pump pressure	1500	5,0-5,6 bar (kgf/cm ²)		
1.3 Full-load delivery with charge-air pressure	-	cm ³ /1000 strokes		2,5
Full-load delivery without charge-air pressure	1500	29,0-30,0 cm ³ /1000 strokes		
1.4 Idle regulation	450	6,0-10,0 cm ³ /1000 strokes		2,5
1.5 Full-speed regulation	2625	17,0-23,0 cm ³ /1000 strokes		
1.6 Start	100	min. 40,0 cm ³ /1000 strokes		
1.7 Load-dependent port-closing	**			

2. Test Specifications

checking values in brackets ()

2.1 Timing device	n = rev/min mm	1200 1,5-2,3 (1,2-2,6)	1500 (2,6-4,0)	2300 6,5-7,3 (6,2-7,6)
2.2 Supply pump	n = rev/min bar (kgf/cm ²)	600 2,4-3,0		2300 7,3-7,9
Overflow delivery	n = rev/min cm ³ /10 s	500 55-138 (40-153)		2300 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	3000 2785 2625 2300 1500 600	max. 5,0 7,0-13,0 (6,0-14,0) (16,0-24,0) 27,1-29,1 (25,8-30,4) (27,2-31,8) 22,5-25,5 (21,0-27,0)	
switch-off	2300	0	
Idle stop	1200 650 450	max. 1,0 2,0-7,0 (0,5-8,5) (4,0-12,0)	
End stop	350 500	min. 28 max. 28	
2.4 Solenoid	cut-in voltage min. 10 V rated voltage 12 V.		

3. Dimensions

for assembly
and adjustment
mm

Designation	mm
K	3,2-3,4
KF	5,7-5,9
MS	1,2-1,4
SVS	max. 2,0
*	1,8-2,4
XK	22,3-23,3
XL	11,0-14,9

Observations

* operating stroke
(cold-start accel.)

**Observe VDT-I-460/138

BOSCH

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