

Test Specifications Fuel Injection Pumps and Governors

1 WPP 001/4 SCA 11,0 r
6. Edition

En

PE 6 P 110 A 720 RS 3040, I...Z RQV 250-1100 PA 379 R

supersedes 83
compatible with Scania
engine DS 1101

Komb.-Nr. 0 401 846 710

All test specifications are valid for Bosch Fuel Injection Pump Test Benches and Testers

Testoil-ISO 4113

A. Fuel Injection Pump Settings

Port closing at prestroke $3,3-3,4$ mm (from BDC) RW = $9,0 - 12,0$ mm
(3,25-3,45)

Rotational speed rev/min 1	Control rod travel mm 2	Fuel delivery cm ³ /100 strokes 3	Difference cm ³ /100 strokes 4	Control rod travel mm 2	Fuel delivery cm ³ /100 strokes 3	Spring pre-tensioning (torque-control valve) mm 6
1100	13,0+0,1	15,5-15,7	0,6(0,8)			3,3 ± 0,1 (3,0-3,5)
225	4,4-4,6	1,7-2,1	0,2(0,4)			

Adjust the fuel delivery from each outlet according to the values in

B. Governor Settings

Upper rated speed			Intermediate rated speed			Lower rated speed			Sliding sleeve travel	
Degree of deflection of control lever 1	rev/min Control rod travel mm 2	Control rod travel mm rev/min 3a 3b	Degree of deflection of control lever 4	rev/min 5	Control rod travel mm 6	Degree of deflection of control lever 7	rev/min 8	Control rod travel mm 9	rev/min 10	mm 11
max.	1100	15,2-17,8	-	-	-	ca. 10	100 225 310-370 = 2,0	min. 5,9 4,4-4,6	200 500 800 1100	1,0-1,2 3,8-4,0 5,4-5,6 8,5
ca. 64	12,0 4,0 1400	1140-1150 1250-1280 0 - 1,0								

Torque control travel a = mm

C. Settings for Fuel Injection Pump with Fitted Governor

Full-load delivery Control-rod stop Test oil temp. 40°C (104°F) 2		Rotational speed limitation intermediate speed 3	Fuel delivery characteristics high idle speed 5a 5b		Starting fuel delivery idle switching point 6		Torque-control travel 5	
rev/min 1	cm ³ /1000 strokes 2	rev/min 3	rev/min 4	cm ³ /1000 strokes 5	rev/min 6	cm ³ /1000 strokes 7	rev/min 8	Control rod travel mm 9
LDA 1100	0,9 bar 155,0-157,0 (153,0-159,0)	1140-1150 *	LDA 600	0,9 bar 160,5-163,5 (158,0-166,0)	100	240,0-290,0 = 20,0-21,0 mm RW	-	
			LDA 500	0 bar 128,0-132,0 (126,0-134,0)				

Checking values in brackets

* 1 mm less control rod travel than col. 2

3.84

BOSCH

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