

Test Specifications Fuel Injection Pumps ② and Governors

PES 6 P 120 A 720 LS 388 RQ 250/1100 PA 658-7
 Komb.-Nr. 0 402 046 263, 0 402 046 262
 Values only apply to test nozzle-and-holder assembly
 1 688 901 019 and fuel-injection test tubing 1 680 750 067

supersedes 7.83
 company: MAN
 engine: D 2566 MK
 206 kW (280 PS)

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

A. Fuel Injection Pump Settings

Port closing at prestroke 3,0-3,1 (2,95-3,15) mm (from BDC) Zyl. 6

Testoil-ISO 4113

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
750	11,4+0,1	17,8-18,0	0,5(0,9)			
250	6,2-6,4	1,2-1,8	0,8(1,2)			

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

B. Governor Settings

Checking of slider PRG check rev/min 1		Control rod travel mm 2	Full-load speed regulation Setting point rev/min 3			Test specifications Control rod travel mm 4	rev/min 5	rev/min 6	Idle speed regulation Setting point rev/min 7		Control rod travel mm 8	rev/min 9	Control rod travel mm 10	Torque control rev/min 11		Control rod travel mm 12		
600	VH=max. 46°	19,2-20,8	600	20,0	9,2	1145-1160	250	6,3	100	min. 7,8	1100	10,2-10,3	750	11,9-12,0	840	11,5-11,7	985	10,5-10,8
					4,0	1180-1210			250	6,2-6,4			350	390=2,0				
					1400	0-1,0												

Torque-control travel on flyweight assembly dimension a = 0,45 mm Speed regulation: At 1145-1160 min⁻¹ 1 mm less control rod travel

C. Settings for Fuel Injection Pump with Fitted Governor

Full-load delivery on governor control lever Test oil temp. 40°C (104°F)		Control rod stop	Fuel delivery characteristics		Starting fuel delivery Idle speed	
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/mm 7
LDA 750	0,7 bar 178,0-180,0 (175,0-183,0)	-	LDA 500	0,31 bar 131,0-137,0 (128,0-140,0)	100	205,0-225,0 (201,0-229,0)
LDA 1100	0,7 bar 160,0-166,0 (157,0-169,0)		LDA 500	0 bar 104,0-106,0 (101,0-109,0)		
			LDA 650	0,7 bar 171,0-177,0 (166,0-180,0)		

Checking values in brackets