

Test Specifications Fuel Injection Pumps and Governors

WPP 001/4 MB 3,0 o

2. Edition

En

PES 5 M 55 c 320 RS 108

RSF 350/2300 M 15

Komb.Nr. 0 400 075 995 Sales model

0 400 075 992

supersedes 1.81

company: Daimler-Benz

engine: OM 617

1-2 -4 -5 -3

0 72 1 44 2 16 2 88
All test specifications are valid for Bosch Fuel Injection Pump Test Benches and Testers

A. Fuel Injection Pump Settings

Port closing at prestroke **2,20-2,30** mm (from BDC) Control rod travel
(2,15-2,35) **20 mm**

Rotational speed rev/min	Control rod travel mm	Fuel delivery cm ³ /100 strokes	Difference cm ³ /100 strokes	Control rod travel mm	Fuel delivery cm ³ /100 strokes	Spring pre-tensioning (compensating valve) mm
1	2	3	4	2	3	6
1000	13,9 ^{+0,1}	3,9-4,0	0,25(0,3)			
350 1800 2200	6,5-6,7	0,6-0,7	0,1(0,15) 0,25(0,3) 0,25(0,3)			

Set uniform delivery according to the values in

Checking values in brackets

B. Governor Settings

Lower rated speed			Upper rated speed			Variations in control rod travel		
Degree of deflection of control lever	Control rod travel mm	Rotational speed rev/min	Degree of deflection of control lever	Control rod travel mm	Rotational speed rev/min		Rotational speed rev/min	Control rod travel mm
1	2	3	4	5	6	7	8	9
9-13	① min.10,5 ② max.10,0 ③ 6,5-6,7 ④ ** ⑤ 2,5	250 300 350 385 720-820	50	⑦ 13,0-13,2 ⑧ 9,1-9,5 ⑨ - ⑩ 0,1,0 ⑪ -	2200 2500 - 2950 -		⑫ 100 ⑬ 1800 ⑭ 1000 ⑯ Switching point	min.20,3 13,5-13,7 13,9-14,0

C. Settings for Fuel Injection Pump with Governor Mounted

Full-load delivery ⑰		Full-load speed regulation ⑱a	Variations in fuel delivery ⑰		Starting fuel delivery idle ⑱b		Difference
Test oil temp 40°C (104°F)							
rev/min	cm ³ /1000 strokes	rev/min	rev/min	cm ³ /1000 strokes	rev/min	cm ³ /1000 strokes	cm ³ /1000 strokes
1	2	3	4	5	6	7	8
2200	39,5-41,5 (38,5-42,5)	2500* RW=9,1-9,5	1800	39,0-41,0 (38,0-42,0)	100	min. 53,0	6,0 ⑳a
			1000	39,0-40,0 (38,0-41,0)	350	6,0-7,0 (5,5-9,0)	1,0 (1,5) see ⑳c
					2500	23,0-27,0 (22,0-28,0)	2,5 point ⑳c

Checking values in brackets

ca. 4,0xxxx 1 mm less control rod travel than in Column 2