

B. Governor Settings

RQV 300-1200 AB 751 (2)

VOB 5,0 b -2-

Upper rated speed			Intermediate rated speed			Lower rated speed			Sliding sleeve travel	
Degree of deflection of control lever	rev/min Control rod travel mm	Control rod travel mm rev/min	Degree of deflection of control lever	rev/min	Control rod travel mm	Degree of deflection of control lever	rev/min	Control rod travel mm	rev/min	mm
1	2	3	4	5	6	7	8	9	10	11
ca. 68	1250 1310 1370 1430 1530	15,0-18,0 10,3-14,7 5,0-11,0 0 - 7,2 0	-	-	-	ca. 12	200 350 500 600 680	7,0-8,2 3,6-5,8 1,6-3,2 0 -1,4 0	1250	8,3

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)		Rotational-speed limitation intermediate speed	Fuel delivery characteristics high idle speed		Starting fuel delivery idle switching point		Torque-control travel	
rev/min	cm ³ /1000 strokes	rev/min	rev/min	cm ³ /1000 strokes	rev/min	cm ³ /1000 strokes	rev/min	Control rod travel mm
1	2	3	4	5	6	7	8	9
Full-load delivery		see page 1!						

Choosing values in brackets

* 1 mm less control rod travel than col 2

B. Governor Settings

RQV 300-1100 AB 743 (3)

Upper rated speed			Intermediate rated speed			Lower rated speed			Sliding sleeve travel	
Degree of deflection of control lever	rev/min Control rod travel mm	Control rod travel mm rev/min	Degree of deflection of control lever	rev/min	Control rod travel mm	Degree of deflection of control lever	rev/min	Control rod travel mm	rev/min	mm
1	2	3	4	5	6	7	8	9	10	11
ca. 68	1140 1190 1240 1290 1380	15,0-18,0 10,2-14,8 5,4-11,2 0 - 7,3 0	-	-	-	ca. 12	200 350 450 580 630	7,0-8,2 3,7-5,8 2,0-3,3 0 -1,1 0	300 480 750 140	0,4-1,5 2,4-3,0 4,4-4,9 8,3

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)		Rotational-speed limitation intermediate speed	Fuel delivery characteristics high idle speed		Starting fuel delivery idle switching point		Torque-control travel	
rev/min	cm ³ /1000 strokes	rev/min	rev/min	cm ³ /1000 strokes	rev/min	cm ³ /1000 strokes	rev/min	Control rod travel mm
1	2	3	4	5	6	7	8	9
800	49,0 - 51,0	1110			60 300 1200	min. 5,25-11,25 11,25-16,25		

Choosing values in brackets

* 1 mm less control rod travel than col 2

Testoil-ISO 4113

Test Specifications Fuel Injection Pumps ① and Governors

WPP 001/4 VOB 5,0 b
1. Edition

PES 6 A 90 C 320 RS 2320,... RQV 200-1200 AB 751 (1) superseded 5.72 BOL 5,0d
.. D .. 300-1200 (2) company: Volvo-BM
RQV 300-1100 AB 743 (3) engine: D 50 B (1-3)

Test with overflow valve and "B" lines

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

A. Fuel Injection Pump Settings

Port closing at prestroke 2,0+0,1 -RW 9 mm (from BDC) ***

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
1000	2	6,4 - 6,8	0,4			2,5± 0,1**
	6	0,3 - 0,9				
	9	2,6 - 3,5				
200	9	0,8 - 1,7				

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

** In the case of greater dispersion alter the delivery-valve spring pre-tensioning accordingly

B. Governor Settings

RQV 200-1200 AB 751 (1)

Upper rated speed			Intermediate rated speed			Lower rated speed			Sliding sleeve travel ①	
Degree of deflection of control lever 1	rev/min Control rod travel mm 2	Control rod travel mm rev/min ②a	Degree of deflection of control lever 4	rev/min 5	Control rod travel mm ④	Degree of deflection of control lever 7	rev/min 8	Control rod travel mm ③	rev/min 10	mm 11
ca. 68	1200	15,0-18,0	-	-	-	ca. 12	100	7,0-8,0	1200	8,0
	1250	10,8-15,2					250	4,9-7,1		
	1300	6,4-12,0					350	2,4-4,5		
	1380	0 - 6,8					450	1,6-3,0		
	1470	0					630	0		
*** Port closing difference between control-rod travel 9 mm and 21 = 1,2 + 0,1 mm camshaft ③a										

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 ②b	Fuel delivery characteristics ⑤a		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
-800	42,0-44,0	1210	500	33,5-36,5	60	min. 18 mmRW	-200-1200	
Z800	30,0-32,0				200	5,25-11,25)		
Y800	34,0-36,0				dispersion max. 1,5			
X800	35,5-37,5				300	5,25-11,25)		
V800	38,0-40,0				dispersion max. 1,5			
W800	27,0-28,0				1300	12,25-17,25)		
U800	55,0-57,0				dispersion max. 3			

Checking values in brackets

* 1 mm less control rod travel than col. 2

8.75

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