

Test Specifications for Injection Pump and Governor

Injection Pump PES 4 A 50 B 410 RS 50	with Governor RSV 250 - 1525 A 3 or A 10	DAI Sheet 1,8 e dated: March 10th 1958
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A. Adjustment Data of the Injection Pump

Feed Begin at a Pre-stroke of 1.7 + 0.1 mm (from BDC)

1	2	3	4	5	6
Speed	Control Rod Travel	Feed Quantity	Feed Quantity Differential	Feed Quantity Drop	Pre-tension of Spring
r.p.m.	mm	cm ³ /100 strokes	cm ³ /100 strokes	(between 1000 and 200 r.p.m.) cm ³ /100 strokes	(Adaptation Valve) mm
1000	9	0.9-1.5	0.2		
	12	2.3-2.8			
	18	4.6-5.3			
200	9	0.7-1.2			

Adjust delivery of equal quantities within outlined limits

B. Adjustment Data of the Governor

1	2	3	4	5	6	7	8	9	10	11
Upper Rated Speed			Medium Rated Speed (not applicable)			Lower Rated Speed			Adaptation	
Adjusting Lever Range		Control Rod Travel				Adjusting Lever Range		Control Rod Travel		Control Rod Travel
degrees	r.p.m.	mm				degrees	r.p.m.	mm	r.p.m.	mm
approx. 56	1525	12.4	} without additional springs			approx. 13	250	6	1500 475 420 200	0 0 0.3-0.7 2.2-2.8
	1550	8.8					100	18 -21		
	1580	5					250	5.7- 6.3		
	1525	11 -13	} with additional springs				350	4 - 4.8		
	1550	7 -10					500	0 - 2.2		
	1580	3.4- 6.4					620	0		
1620	0 - 3									
1680	0									

C. Adjustment of Injection Pump with Mounted Governor

0	1	2	3	4	5	6	7	8
Injection Pump	Adjustment of Full-load Quantity at Control Rod Stop		Limit of RPM at the Governor Adjusting Lever	Testing of Feed Quantity Characteristics		Testing of Starting Quantity		Idle run Adjustment by means of the STOP screw
	r.p.m.	cm ³ /1000 strokes	r.p.m.	r.p.m.	cm ³ /1000 strokes	r.p.m.	cm ³ /1000 strokes	
RS 50	1500	29-30	1530-1540					

The values in col. 2 and 5 are obtained by dividing the total quantity through the number of pump elements