

Test Specifications for Injection Pump and Governor

Injection Pump PES 4 A 50 B 410 RS 50 68, 68 z	with Governor EP/M 60 A 121 d	DAI Sheet 1.7 i 2 dated: Feb. 22nd 1961
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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 r. p. m.	Control Rod Travel mm	Feed Quantity cm ³ /100 strokes	Feed Quantity Differential cm ³ /100 strokes	Feed Quantity Drop (between 1000 and 200 r. p. m.) cm ³ /100 strokes.	Pre-tension of Spring (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	
Travel of Adaptation mm	Leak-Proof Test Vacuum Drop mm Water Col.		Time Min.	Point of Adjustment Control Rod Travel Limit Vacuum mm Water Col.	Control Rod Travel mm	Adjustment of additional Spring Vacuum mm Water Col.	Control Rod Travel mm	Control Rod Travel Test Vacuum mm Water Col.		Adaptation Vacuum mm Water Col.	Control Rod Travel mm
1.0-0.1	500-480		10	300	12.4	-	-	430 500 550 600	12.4 5-11.5 1.5-7.9 0-4.5	40 75 125	13.3-13.4 12.9-13.3 12.4-12.7

For Testing Control Rod Travel (Column 4-11) n = 500 r. p. m.

C. Adjustment of Injection Pump with Mounted Governor

0	1	2	3	4	5	6	7	8	9
Injection Pump	Adjustment of Full-Load Stop Screw			Testing of Feed Quantity Characteristics			Adjustment of Idling Stop		
	r. p. m.	Vacuum mm Water Col.	cm ³ /1000 strokes	r. p. m.	Vacuum mm Water Col.	cm ³ /1000 strokes	r. p. m.	Vacuum mm Water Col.	Control Rod Travel from Full-Load to Idling mm
RS 50	1000	300	29-30	500	50	32-34			
RS 68	1000	300	23.5-24.5	500	50	25.5-28.5			
RS 68 z	1000	300	28-29	500	50	29.5-32.5			

The values in col. 3 and 6 are obtained by dividing the total quantity through the number of pump elements