

Test Specifications for Injection Pump and Governor

Injection Pump PES 4 A 50 B 410 RS 50 z or RS 68	with Governor EP/M 60 A 55 d or A 71 d	DAI Sheet 1.7 i dated: Sep. 1st 1953
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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		0.8	
	12	2.3-2.8	0.3		
	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 Adap- tation mm	Leak-Proof Test		Point of Adjustment		Control Rod Travel Test			Adaptation		
	Vacuum Drop	Time Min.	Contr. Rod Vacuum	Travel Limit Control Rod Travel	with Governor		Vacuum	Control Rod Travel	Vacuum	Control Rod Travel
	mm Water Col.	sec.	mm Water Col.	mm	Design	mm Water Col.	r. p. m.	mm Water Col.	mm	
1.0±0.1	500-480	10	300	12.3	.. A 55 d	410	12.3	50	13.3-13.4	
						470	8.6-12.3	100	12.6-13.0	
						700	0.7-3.2	150	12.3-12.4	
					.. A 71 d	410	12.3	50	13.3-13.4	
					450	7.8-12.3	100	12.6-13.0		
					600	0-2.7	150	12.3-12.4		

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
Injec- tion 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 /100 strokes	r. p. m.	Vacuum mm Water Col.	cm ³ /100 strokes	r. p. m.	Vacuum mm Water Col.	Control Rod Travel from Full- Load to Idling mm
RS 50 z RS 68	1000	300	24.5-25.5	500 750	50 125	26.5-29.5 24.5-27.5			

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