

Test Specifications for Injection Pump and Governor

Injection Pump PES 4 A 50 B 410 RS 50 x PES 4 A 50 C 410 RS 1010 RS 1025	with Governor x EP/RSV 250 1275 A 5 A 152* 1275 A 5 A 60** 1425 A 5/15** 1425 A 5 A 60***	DAI Sheet 1.8 r x dated: Apr. 13 th 1962
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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 <small>r. p. m.</small>	Control Rod Travel <small>mm</small>	Feed Quantity <small>cm³/100 strokes</small>	Feed Quantity Differential <small>cm³/100 strokes</small>	Feed Quantity Drop <small>(between 1000 and 200 r. p. m.) cm³/100 strokes</small>	Pre-tension of Spring <small>(Adaptation Valve) mm</small>
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 <small>(not applicable)</small>			Lower Rated Speed			Adaptation					
Adjusting Lever Range <small>degrees</small>	Control Rod Travel <small>r. p. m.</small>	Control Rod Travel <small>mm</small>	r. p. m.			Adjusting Lever Range <small>degrees</small>	Control Rod Travel <small>r. p. m.</small>	Control Rod Travel <small>mm</small>	r. p. m.	Control Rod Travel <small>mm</small>				
approx. 65	1425	16	} without additional springs			approx. 21	250	6	1400	0				
	1500	9.8					100	19-21			500	0		
	1550	4.2	} with additional springs				250	5.7-6.3					300	1.2-1.8
	1480	10-12.5					350	3-4.5						
	1500	8-11					450	0-2.2						
	1550	3-7					550	0-1						
	1600	0.8-3.4												
1700	0-1													

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
	<small>r. p. m.</small>	<small>cm³/1000 strokes</small>	<small>r. p. m.</small>	<small>r. p. m.</small>	<small>cm³/1000 strokes</small>	<small>r. p. m.</small>	<small>cm³/1000 strokes</small>	
RS 1010***	1400	29-30	1430-1450	-	-	-	-	-
RS 50**	1250	29-30	1280-1290	-	-			
RS 1025*	1250	24.5-25.5	1280-1290	-	-			
-	-	-	-	-	-			

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