

# Test Specifications for Injection Pump and Governor

<b>Injection Pump</b> PES 4 A 50 B 410 RS 1025 RS 68	<b>with Governor</b> EP/RSV 650-1200 A 5 A 388 A 387 B 388 B 387	<b>DAI Sheet</b> <b>1.8 r 3</b>  dated: Apr. 13th 1962
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## A. Adjustment 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>cm<sup>3</sup>/100 strokes</small>	Differential <small>cm<sup>3</sup>/100 strokes</small>	Feed Quantity Drop <small>(between 1000 and 200 r. p. m.) cm<sup>3</sup>/100 strokes</small>	Pre-tension of Spring <small>(Adaptation Valve) mm</small>
1000	9	0.9-1.5			
	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
Upper Rated Speed			Medium Rated Speed <small>(not applicable)</small>			Lower Rated Speed			Adaptation	
Adjusting Lever Range <small>degrees</small>	r. p. m.	Control Rod Travel <small>mm</small>	r. p. m.			Adjusting Lever Range <small>degrees</small>	r. p. m.	Control Rod Travel <small>mm</small>	r. p. m.	Control Rod Travel <small>mm</small>
approx. 51	1200	16	} without additional springs			ap. 29	650	6		
	1250	11.2					} with additional springs		100	19 -21
	1300	5.6	650	5.7- 6.3						
	1270	7 -10	700	4 - 5						
	1300	4.7- 7	800	0.5- 3						
	1400	0.5- 3		900	0 - 1					
1500	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>cm<sup>3</sup>/1000 strokes</small>	<small>r. p. m.</small>	<small>r. p. m.</small>	<small>cm<sup>3</sup>/1000 strokes</small>	<small>r. p. m.</small>	<small>cm<sup>3</sup>/1000 strokes</small>	
RS 1025 RS 68	1180	29-30	1210-1230	—	—	—	—	n 650 RW 6

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