

## Test Specifications for Injection Pump and Governor

<b>Injection Pump</b> PES 4 A 50 B 410 RS 17	<b>with Governor</b> EP/M 60 A 31 d	<b>DAI Sheet</b> <b>1.7 a</b>  x dated: Apr. 13th 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>cm<sup>3</sup>/100 strokes</small>	Feed Quantity 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 12 18	0.9-1.5 2.3-2.8 4.6-5.3	0.3		
200	9	x 0.7-1.5			
Adjust delivery of equal quantities within outlined <span style="border: 1px solid black; display: inline-block; width: 20px; height: 10px; vertical-align: middle;"></span> limits					

### B. Adjustment Data of the Governor

1	2	3	4	5	6	7	8	9	10	11
Travel of Adaptation <small>mm</small>	Leak-Proof Test <small>Vacuum Drop mm Water Col.</small>		Point of Adjustment Control Rod Travel Limit <small>Vacuum mm Water Col.</small>		Control Rod Travel Test with Governor <small>Vacuum mm Water Col.</small>			Adaptation <small>Vacuum mm Water Col.</small>		
1.0+0.1	500-480	10	300	11.5	-	-	175 410 450 700 830	11.5 11.5 9-11.5 0.6-2.4 0	50 75 100 150	12.5-12.6 12.2-12.5 11.9-12.2 11.5-11.6
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		
	<small>r. p. m.</small>	<small>Vacuum mm Water Col.</small>	<small>cm<sup>3</sup>/100 strokes</small>	<small>r. p. m.</small>	<small>Vacuum mm Water Col.</small>	<small>cm<sup>3</sup>/100 strokes</small>	<small>r. p. m.</small>	<small>Vacuum mm Water Col.</small>	<small>Control Rod Travel from Full-Load to Idling mm</small>
RS 17	1000 1000	300 180	27.5-28.5 27.5-28.5	500 x 750	50 x 125	29.5-32.5 x 27.5-30.5			

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