

## Test Specifications for Injection Pump and Governor

<b>Injection Pump</b> PES 4 A 50 B 410 RS 50 C 410 RS 1010	<b>with Governor</b> EP/M 60 AV 887 A 138 D	<b>DAI Sheet</b> <b>1.7 i 3</b>  dated: Dec. 10th 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 <div style="border: 1px solid black; display: inline-block; padding: 2px;">12</div> 18	0.9-1.5 <div style="border: 1px solid black; display: inline-block; padding: 2px;">2.3-2.8</div> 4.6-5.3	0.2		
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 <small>mm</small>	Leak-Proof Test Vacuum Drop <small>mm Water Col.</small>	Time Min. <small>sec.</small>	Point of Adjustment Control Rod Travel Limit <small>Vacuum mm Water Col.</small>	Control Rod Travel <small>mm</small>	Adjustment of additional Spring <small>Vacuum mm Water col.</small>	Control Rod Travel <small>mm</small>	Control Rod Travel <small>mm</small>	Control Rod Travel <small>mm</small>	Adaptation Vacuum <small>mm Water Col.</small>	Control Rod Travel <small>mm</small>
1.0+0.1	500-480	10	300	12.3	-	-	300 500 570 750	12.3 12.3 8.7-11.8 0-3.7	30 75 125	13.3-13.4 12.9-13.3 12.3-12.6

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
Injec-tion Pump	Adjustment of Full-Load Stop Screw			Testing of Feed Quantity Characteristics			Adjustment of Idling Stop		
	<small>r. p. m.</small>	Vacuum <small>mm Water Col.</small>	<small>cm<sup>3</sup>/1000 strokes</small>	<small>r. p. m.</small>	Vacuum <small>mm Water Col.</small>	<small>cm<sup>3</sup>/1000 strokes</small>	<small>r. p. m.</small>	Vacuum <small>mm Water Col.</small>	Control Rod Travel from Full-Load to Idling <small>mm</small>
RS 50 RS 1010	1000	300	29-30	500 700	50 125	31-34 29-32			

With full load adjustment (col. 3 and 6) individual measurements 1000 strokes