

Test Specifications for Injection Pump and Governor

Injection Pump

PES 4 A 50 B 410 RS 50
C 410 RS 1010

with Governor

EP/M 60 AV 887
A 138 D

DAI Sheet
1.7 i 3

dated: Dec. 10th 1962

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			
	12	2.3-2.8	0.2		
	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 Vacuum Drop mm Water Col.	Time Min. sec.	Point of Adjustment Control Rod Travel Limit Vacuum mm Water Col.	Control Rod Travel mm	Adjustment of additional Spring Vacuum mm Water col.	Control Rod Travel mm	Control Rod Travel Test Vacuum mm Water Col.	Control Rod Travel mm	Adaptation Vacuum mm Water Col.	Control Rod Travel mm
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
Injection Pump	Adjustment of Full-Load Stop Screw			Testing of Feed Quantity Characteristics			Adjustment of Idling Stop		
	Vacuum r. p. m.	Vacuum mm Water Col.	cm ³ /1000 strokes	Vacuum r. p. m.	Vacuum mm Water Col.	cm ³ /1000 strokes	Vacuum r. p. m.	Vacuum mm Water Col.	Control Rod Travel from Full- Load to Idling mm
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