

# Test Specifications for Injection Pump and Governor

<b>Injection Pump</b> PES 4 A 50 B 410 RS 50  x PES 4 A 50 C 410 RS 1010 RS 1025	<b>with Governor</b> x EP/RSV 250 1275 A 5 A 152* 1275 A 5 A 60** 1425 A 5/15** 1425 A 5 A 60***	<b>DAI Sheet</b>  <b>1.8 r</b>  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	Control Rod Travel	Feed Quantity	Feed Quantity Differential	Feed Quantity Drop	Pre-tension of Spring
r. p. m.	mm	cm <sup>3</sup> /100 strokes	cm <sup>3</sup> /100 strokes	(between 1000 and 200 r. p. m.) cm <sup>3</sup> /100 strokes	(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		
Upper Rated Speed			Medium Rated Speed (not applicable)			Lower Rated Speed			Adaptation			
Adjusting Lever Range		Control Rod Travel				Adjusting Lever Range		Control Rod Travel		Control Rod Travel		
degrees	r. p. m.	mm	r. p. m.			degrees	r. p. m.	mm	r. p. m.	mm		
approx. 65	1425	16	without additional springs			approx. 21	250	6	1400 500 300	0 0 1.2-1.8		
	1500	9.8										
	1550	4.2										
	1480	10-12.5										
	1500	8-11	with additional springs									
	1550	3-7										
	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
	r. p. m.	cm <sup>3</sup> /1000 strokes	r. p. m.	r. p. m.	cm <sup>3</sup> /1000 strokes	r. p. m.	cm <sup>3</sup> /1000 strokes	
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