

The two ATE Power Brakes T 50 and T 50/12 differ in length and diameter of the cylinders and pistons (see table).

Power brake model	Overall length mm	Vacuum power cylinder		Hydraulic slave cylinder		Control valve piston	
		in. $\phi$	mm $\phi$	in. $\phi$	mm $\phi$	in. $\phi$	mm $\phi$
ATE T 50	222	6 $\frac{3}{4}$	171.5	1	25.4	$\frac{5}{16}$	7.94
ATE T 50/12	292	6 $\frac{3}{4}$	171.5	$\frac{11}{16}$	17.46	$\frac{3}{8}$	9.52

### B. Vacuum Cup in ATE Power Brake

Previous models of ATE Power Brakes T 50 and T 50/12 were equipped with a leather vacuum cup. On recent power brakes plastic vacuum cups have been installed. **For these plastic cups oil lubrication is no longer required.** For this reason power brakes with plastic cups are not equipped with a screw plug on the vacuum power cylinder.

During a transition period a certain number of power brakes with plastic cups had the screw plugs screwed into the vacuum power cylinder from the inside.

### C. Testing of ATE Power Brakes

The test values for the individual power brakes are listed in the table below.

Power Brake	Beginning of braking power assistance at control pressure kg/cm <sup>2</sup>	Vacuum kg/cm <sup>2</sup>	Hydraulic control pressure at brake master cylinder kg/cm <sup>2</sup>	Hydraulic servo pressure at power brake kg/cm <sup>2</sup>	Braking power multiplication factor
ATE T 50	3.5	0.4	25	47	approx. 2
		0.6	29	55	
		0.8	33	63	
ATE T 50/12	3.0	0.4	13.4	41.5	approx. 3.5
		0.8	18.8	64.5	
		0.8	24	87	

The various tests should be made in accordance with the details given in the ATE Power Brake T 50 servicing instructions published by the firm of Teves.

Power brakes without a screw plug on the vacuum power cylinder have a screw plug for connecting a vacuum tester on the control valve tube connection on the front part of the power brake.