

# COSSOR 220 P.A.

## 2-VOLT HIGH SLOPE POWER VALVE

This valve develops approximately the same A.C. output as the 220 P. It is, however, much more sensitive owing to its high value of mutual conductance. It should be used when full volume is not attained with a 220 P. due to low sensitivity.

Attention is drawn to the fact that the 220 P.A. is very strongly recommended as the best battery valve for both power-grid and anode-bend detection when adequate anode current and voltage are available. For the former purpose the transformer should be shunt fed, using a 15,000 ohm resistance with a condenser of .5 to 1 mfd.

### TECHNICAL DATA

For Normal Power Work.	
Filament Voltage	2
Filament Current (Amps.)	.2
Impedance (ohms)	4,000
Amplification Factor	16
Mutual Conductance	4 m.a./v.
Maximum Anode Voltage	150
Grid Bias for 150 Anode Volts	-4.5 v.
Anode Current for 150 Anode Volts with -4.5 volts Grid Bias (Average)	10 m.a.
Normal Anode Working Voltage (approx.)	120
Optimum Load	9,000 ohms

