

## HOT CATHODE MERCURY VAPOUR RECTIFIER

TYPE 4037-A

The 4037-A VALVE is a hot cathode mercury vapour rectifier designed for medium power outputs. When the valve is first installed, or after it has been agitated in any way, the filaments should be switched on for at least ten minutes before applying the H.T. in order that the mercury may become correctly distributed.

### OPERATING INSTRUCTIONS

The filament must be switched on for at least 20 secs. before the H.T. is applied. Failure to observe this precaution will result in damage to the valve. The use of some kind of delay switch having a delay action of about 30 secs. is recommended.

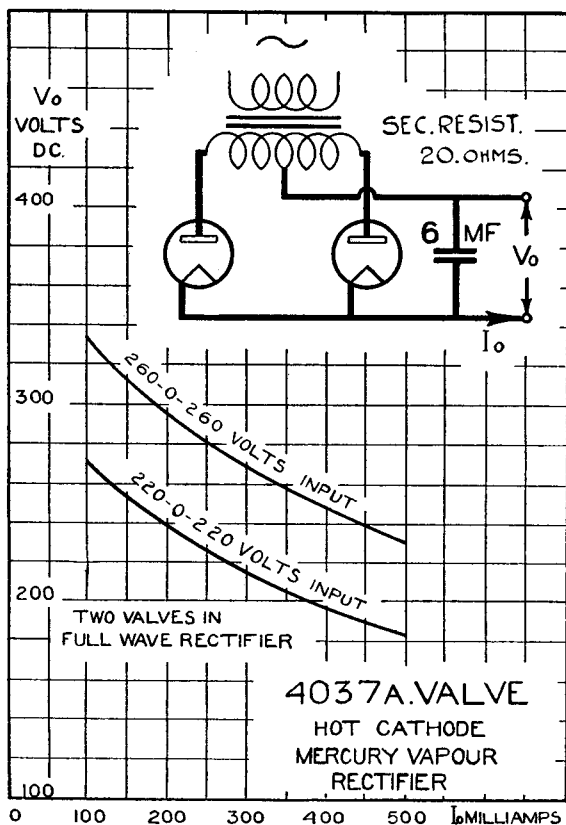
The voltage drop across the valve in the forward direction should not exceed 15 volts. If this figure is exceeded it is an indication that the filament is operating at too low a temperature; and should this state of affairs be allowed to continue a greatly decreased life will result.

Since the voltage drop is not more than 15 volts in the positive direction it is essential that no positive voltage in excess of this figure should be applied unless a series resistance is connected in the circuit to limit the current.

The accompanying curves show the relation between volts and current output for two input voltages obtained with the typical rectifier circuit indicated.

# BRIMAR

## CHARACTERISTICS



Filament volts	...	...	...	...	4.0 volts
Filament current	...	...	...	...	2.0 amps.
Peak anode current	...	...	...	...	0.75 amps.
Peak inverse voltage	...	...	...	...	1,000 volts
Output as half wave rectifier on resistance load—75 watts (300 volts at 250 m/A).					
Base—Standard BVA 4 Pin.					
Connections are shown on page 51.					

# VALVES