—Standard Valves-

4064-A AND 4064-B VALVES

HALF WAVE, HOT CATHODE MERCURY VAPOUR RECTIFIER.

SPECIFICATION.

Cathode.

Oxide coated filament (Shielded). Constant voltage type.

Base.

4064-A Edison screw Goliath. 4064-B Large 4-pin bayonet.

Dimensions.

4064-A

4064-B

Constants.

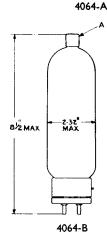
5 volts
6.75 amps
5 amps
10,000 volts
1.25 amps
5°C. min.
70°C. max.

Condensed mercury temperature range

20°C. min. 70°C. max.

Recommended Temperature Conditions.

	Peak Inverse Voltage.	
	Less than 5,000 volts.	1 '
Natural ventilation Forced ventilation	15°C.—55°C. 15°C.—70°C.	15°C.—45°C. 15°C.—60°C.



2.32



Cathode Heating Time.

Ambient temperature	5°C.—10°C.	10°C.—15°C.	greater than 15°C.
Heating period	10	5	I* mins.

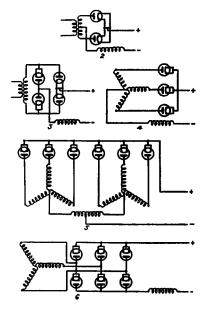
^{*} This time may be reduced to 30 seconds if absolutely essential.

Note:—After shipment the filament must be run at full voltage for 30 minutes before any anode voltage is applied, so that the mercury shall be distributed correctly.

-B Valve — Standard Valves—

TYPICAL OPERATING CONDITIONS.

Circuit	Number of Valves	Approx. D.C. Output volts	Max. D.C. Load Current
2	2	3200 volts	2·5 amps.
3 4	4 3	6400 ,, 4550 ,,	2·5 ,, 3·75 ,,
5	6	4550 ,,	7.5 ,,
6	6	9100 ,,	3.75 ,,



Important.

This rectifier being directly heated, the output circuit must be connected to the mid-point of the filament transformer. The filament transformer should be so connected that the anode and filament voltages are 90° out of phase. The maximum peak anode current and output current should be reduced by 50 per cent. if quadrature operation of the filament and anode voltages is not possible.

Temperature limits given under "Natural Ventilation" are only valid for unrestricted natural ventilation which causes the condensed mercury temperature to be about 15°C—20°C. above the ambient temperature, forced air blast being required for operation up to the maximum condensed mercury temperature limit.

For further information on H.C.M.V. rectifiers, see sheet G.I.