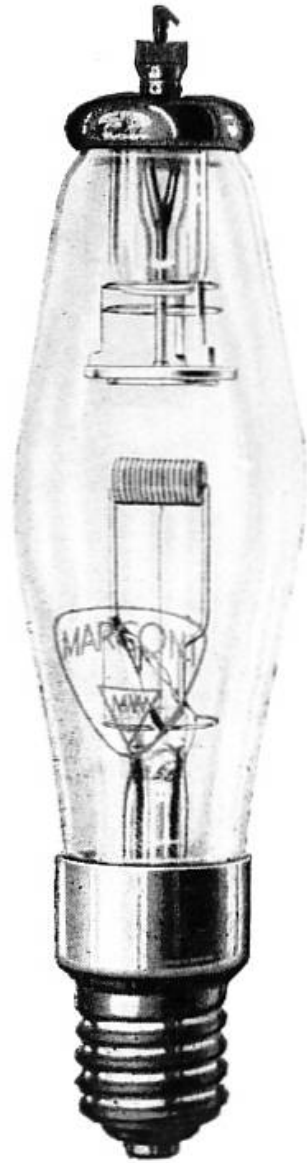


# Rectifying Valve

TYPE G.U.2

(Gas Filled, Half Wave.)



(Approximate overall dimensions: <sup>3721</sup> 305 × 76 m/ms.)

A hot cathode mercury vapour half wave rectifying valve.

Filament volts	...	...	...	4.0
Filament current	...	...	...	11.0 amps.

When used in suitable circuits in which the necessary delays between low tension and high tension switchings have been provided for, the maximum outputs are as follows:—

In a bi-phase half wave circuit, 2.0 amperes at 3,500 volts D.C.

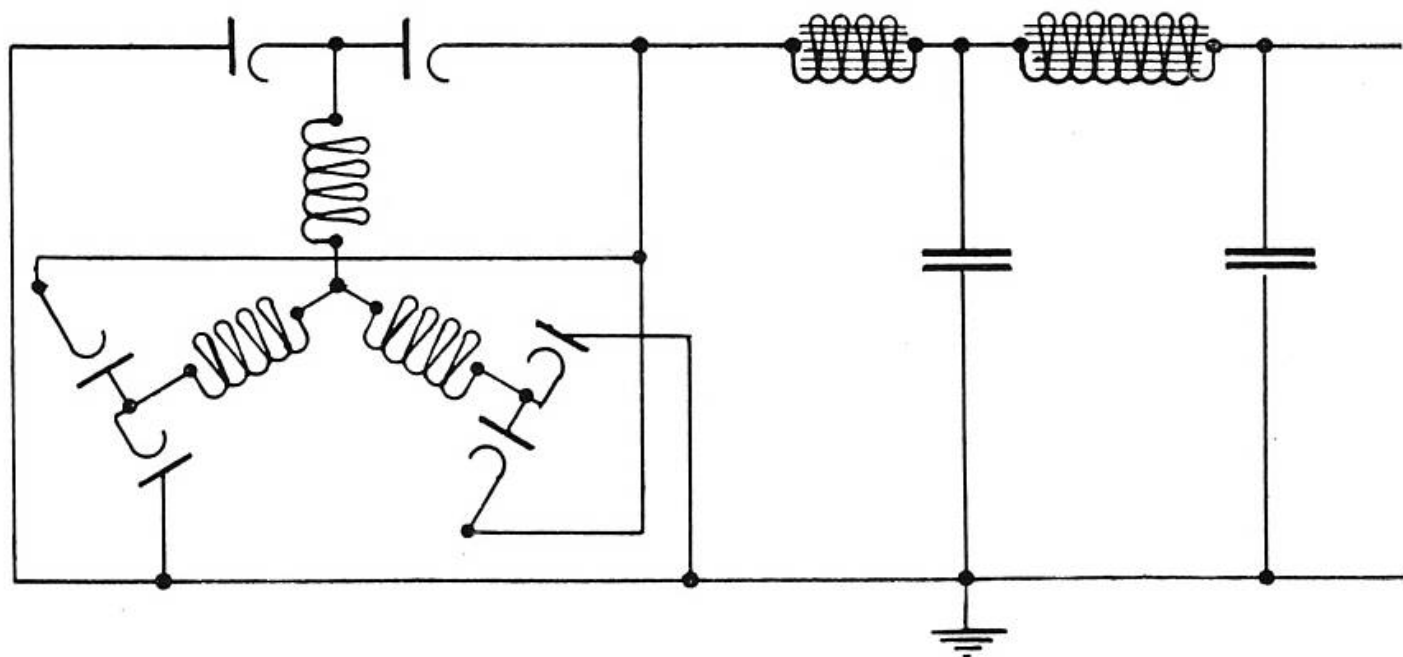
In a single phase full wave circuit using 4 valves, 2.0 amperes at 5,000 volts D.C.

In a three-phase half wave circuit, 3.0 amperes at 3,500 volts D.C.

In a three-phase full wave circuit using 6 valves, 3.0 amperes at 5,000 volts D.C.

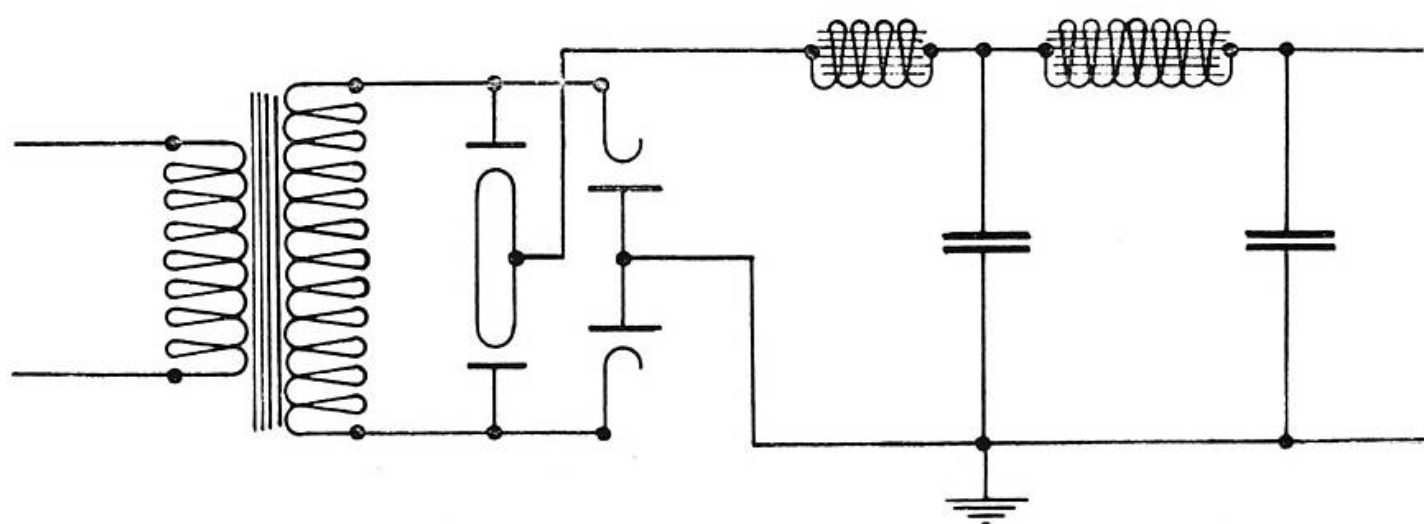
These ratings apply only where the supply frequency is of the order of 50 cycles per second. At higher frequencies the maximum voltage is reduced.

Code Word: IGHIG



THREE PHASE FULL WAVE

3722



SINGLE PHASE FULL WAVE (GRATZ)

3723

#### FILAMENT SWITCHING :—

(1) When valves have been transported, disturbance of the mercury in the bulb occurs. In consequence the filament voltage should be switched on at least 30 minutes before any high tension is applied, and the high tension voltage should be applied gradually. After testing, valves should be put back into store with care, the valve being maintained throughout in a vertical position so as not to disturb the mercury distribution. If the valves are stored out of the vertical, or knocked over from that position, they should again have their filaments switched for 30 minutes before high tension is applied as specified above. This condition also applies to valves which have been kept in store for a lengthy period.

(2) After the valve has been in use, but has been shut down overnight, five minutes should elapse after switching on the filament before switching on the high tension.

(3) In the case of a shut down the interval between switching on the filament and switching on the high tension is reduced to a minimum of one minute if the valve is really warm.