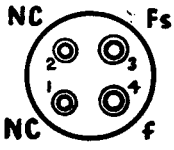
FERRANTI

MERCURY VAPOUR RECTIFIER

A Mercury Vapour Rectifier with an oxide coated filament.

HG25



Base Connections
Underside View of Base

PHYSICAL DETAILS.

Base	UX—4-pin (Bayonet).
Max. Overall Length	170 mm. ($6\frac{11}{16}$in.).
Max. Seated Height	155 mm. ($6\frac{1}{8}$in.)
Max. Bulb Diameter	66 mm. ($2\frac{29}{32}$in.).
Anode Cap	Type CT3.
Mounting Position	Vertical—Base down.

CATHODE.

Fil. Voltage	2·5 volts.
Fil. Current	5·0 amps.

RATINGS. (Maximum ratings are "absolute" values.)

Natural Ventilation Forced Ventilation	20°C—40°C 20°C—60°C	25°C—55°C 25°C—65°C
Max. P.I.V. ... ... (See Note 2 below)	5kV—10kV	up to 5kV

Max. Peak Anode Current ...	1·0	Amp.
Max. Av. Anode Current ...	0·25	Amp.

Ambient Temperature Range :

Natural Ventilation ...	20°—55°C.	
Forced Ventilation	20°—65°C.	
Min. Cathode Heating Delay ... (See Note 1 below.)	30	secs.

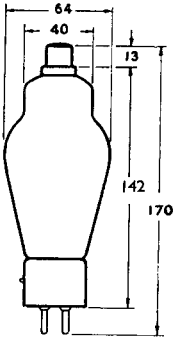
The above ratings apply to operation in circuits using a choke input filter and a supply frequency of 50 c/s.

TYPICAL OPERATION.

*CIRCUIT.	D.C. Output Kilovolts.	D.C. Output Amps.
No. 1. Bi-Phase Half Wave (2 valves) ...	3·2	0·5
No. 2. 3-Phase Half Wave (3 valves) ...	4·5	0·75
No. 3. Single Phase Full Wave (4 valves) ...	6·5	0·5
No. 4. 3-Phase Full Wave (6 valves) ...	9·5	0·75
No. 5. 3-Phase Half Wave Double Y (6 valves)	4·5	1·5

INSTALLATION NOTES.

1. When first installed or after a long period of rest the valve should be run for at least 5 minutes before the application of any anode voltage.
2. The rated value of P.I.V. is applicable only over the temperature ranges noted above. Care should be taken in selecting a suitable position in the layout to ensure free circulation of air around the bulb.
3. Valves should be shielded from radio frequency fields.
4. Surges due to H.T. switching or other causes should be avoided.
5. This rectifier is directly heated and it is therefore recommended that the output circuit should be returned to the mid point of the filament transformer secondary.
6. If valves are used in parallel to increase current output balancing inductances must be placed in the anode leads.



All dimensions shown are in millimetres (max.)

*For Circuit Diagrams see overleaf.

This Valve is a direct equivalent to U.S.A. type 866A.

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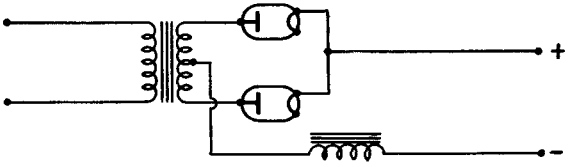
Circuits referred to under "TYPICAL OPERATION" overleaf.



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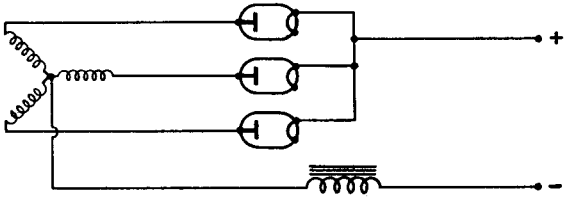

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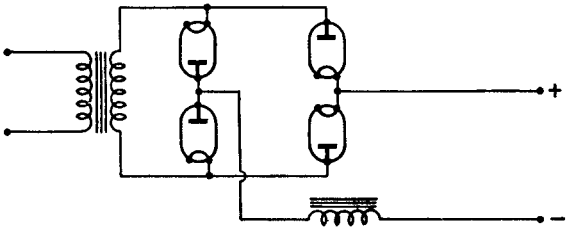

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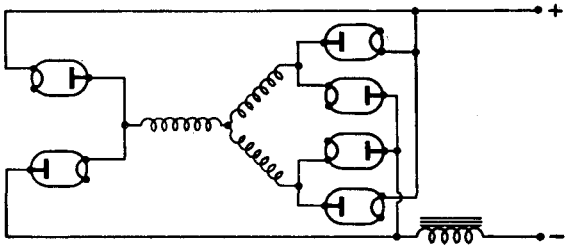

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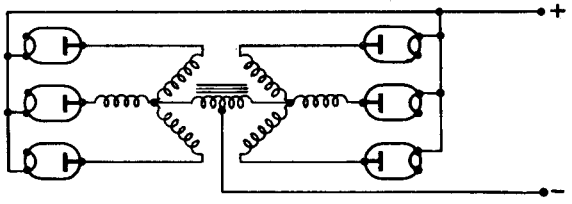

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