# FERRANTI MERCURY VAPOUR RECTIFIER

A Mercury Vapour Rectifier with an oxide coated filament.

### PHYSICAL DETAILS.

Base	 	UX-4-pin (Bayonet).
Max. Overall Length	 	170 mm. (6\lin.).
Max. Seated Height	 	155 mm. (6kin.)
Max. Bulb Diameter	 	66 mm. (2 👯 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	20°C—40°C	25°C—55°C	
Forced Ventilation	20°C—60°C	25°C—65°C	
Max. P.I.V (See Note 2 below)	5kV—I0kV	up to 5kV	

Max. Peak Anode Current Max. Av. Anode Current		1 ·0 0 ·25	Amp. Amp.
Ambient Temperature Range	е:		
Natural Ventilation 20°—55°C. Forced Ventilation 20°—65°C.			

Min. Cathode Heating Delay ... 30 secs. (See Note I below.)

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

## TYPICAL OPERATION.

		D.C. Output			
*	CIRCUIT.	H	Cilovolts.	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 Wa (4 valves)	ve 	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 valv	ves)	4 · 5	1 -5	

## INSTALLATION NOTES.

- 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.
- 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.
- Surges due to H.T. switching or other causes should be avoided.
- 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.
- If valves are used in parallel to increase current output balancing inductances must be placed in the anode leads.

\*For Circuit Diagrams see overleaf.

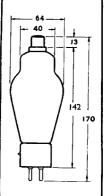
This Valve is a direct equivalent to U.S.A. type 866A.

HG25





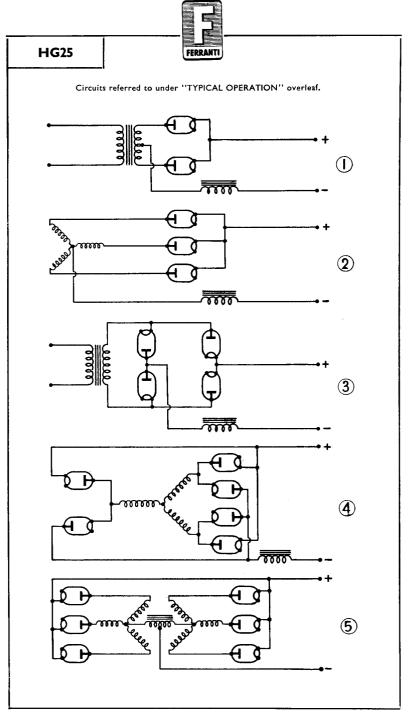
Base Connections Underside View of Base



All dimensions shown are in millimetres (max.)



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