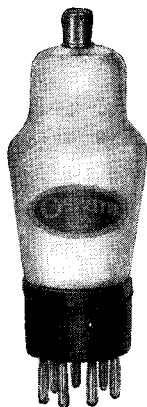


# Osram Valves

Made in England



Illustrating Type H30.

Maximum Dimensions :

Overall length (including pins)  
125 m/m.

Diameter of bulb 45 m/m.

## TYPE H30

## TYPE L30

### UNIVERSAL RANGE TRIODES

(With Indirectly Heated Cathodes)

The OSRAM H30 and L30 are Triodes for series or parallel running, such as in receivers intended for use on either D.C. or A.C. supply, or from 12 volt car batteries.

Particular features of type H30 are : very low microphonic response and, due to its design, very low residual hum when used with the heater in series with other valves in a receiver operated from A.C. mains supply. The valve has a high Amplification Factor giving considerable gain per stage.

Type L30 is a low impedance Triode suitable for use in an L.F. amplifier.

### CHARACTERISTICS.

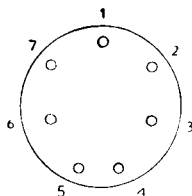
|                |    |    |    |    |    |    |    |    |    |          |
|----------------|----|----|----|----|----|----|----|----|----|----------|
| Heater Current | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.3 amp. |
| Heater Volts   | .. | .. | .. | .. | .. | .. | .. | .. | .. | 13.0     |

| H30                       |    |      |              |                                                    | L30  |            |                                                    |
|---------------------------|----|------|--------------|----------------------------------------------------|------|------------|----------------------------------------------------|
|                           |    | Max. |              |                                                    | Max. |            |                                                    |
| Anode Volts               | .. | 250  | 200          | 150                                                | 200  | 150        | 100                                                |
| Grid Volts                | .. | -1.7 | -1.3         | -1.0                                               | -8   | -7         | -5                                                 |
| Anode Current (average)   |    | 5-5  | 5.5          | 3.8 ma.                                            | 25   | 16         | 9.6 ma.                                            |
| Amplification Factor      | .. |      | 80           | } measured at anode<br>volts 100, grid<br>volts 0. |      | 12         | } measured at anode<br>volts 100, grid<br>volts 0. |
| Impedance (ohms)          | .. |      | 13,300       |                                                    |      | 2,860      |                                                    |
| Mutual Conductance ma./v. |    |      | 6.0          |                                                    |      | 4.2        |                                                    |
| Automatic Bias Resistance |    |      | 300 ohms     |                                                    |      | 500 ohms   |                                                    |
| Optimum Load Resistance   |    |      | 20,000 ohms. |                                                    |      | 6,000 ohms |                                                    |

#### Type H30 Interelectrode Capacities:—

|                             |    |    |    |    |                              |
|-----------------------------|----|----|----|----|------------------------------|
| Grid-Anode (others earthed) | .. | .. | .. | .. | 3.5 micro-microfarad approx. |
| Grid-other electrodes       | .. | .. | .. | .. | 5.0 " " "                    |
| Anode-other electrodes      | .. | .. | .. | .. | 2.7 " " "                    |

For prices see  
pages 126-129.



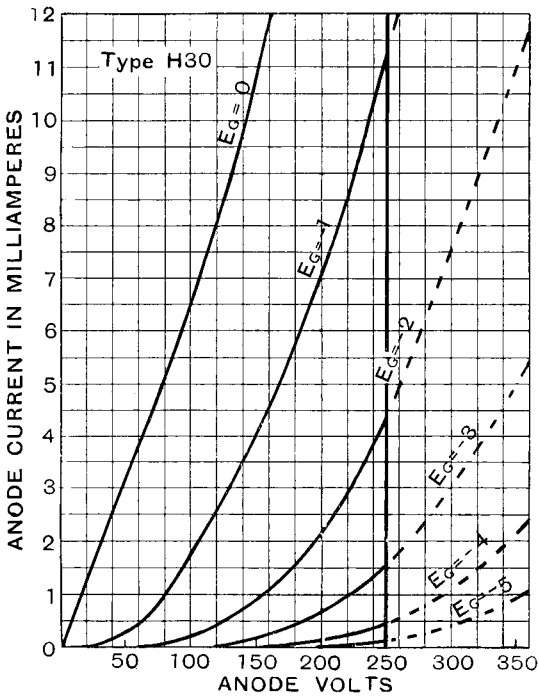
View looking on  
Underside of base.

| BASE :         | BASE :     |
|----------------|------------|
| H30, 7-pin     | L30, 7-pin |
| 1: Metallising | 1. —       |
| 2: —           | 2: Grid    |
| 3: —           | 3: —       |
| 4: Heater      | 4: Heater  |
| 5: Heater      | 5: Heater  |
| 6: Cathode     | 6: Cathode |
| 7: Anode       | 7: Anode   |
| Top cap: Grid  |            |

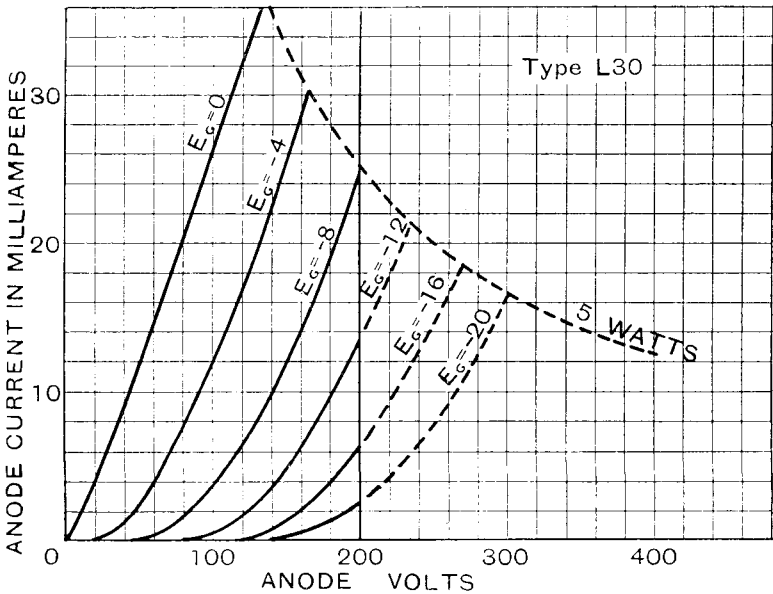
Type H30 has a carbonised bulb and can be supplied metallised if required.

Type L30 is supplied in clear bulb only.

# **TYPE H30**



# **TYPE L30**



CHARACTERISTIC CURVES OF AVERAGE VALVES.