

# Osram Valves

Made in England.



*Maximum Dimensions :*  
Overall length (including pins) 128 m/m.  
Diameter of bulb 45 m/m.

## TYPE VS24 “ VARIABLE MU ” SCREEN GRID AMPLIFYING VALVE

(For use with a 2-volt Accumulator).

The OSRAM VS24 is a 2-volt screen grid Valve with characteristics primarily designed to promote easy control of volume in a High Frequency or I.F. Amplifying Circuit by variation of grid bias. The variable grid bias method of volume control lends itself to the reduction of interference known as “cross modulation” so enabling the effective selectivity of the receiver to be increased.

The particular characteristics of the OSRAM VS24 are as follow :

- (1) A high value of maximum mutual conductance giving sensitivity.
- (2) A high value of mutual conductance—grid volt ratio giving effective volume control by means of a grid bias battery not exceeding 9 volts.
- (3) Linearity of control by variation to grid bias minimising the percentage of modulation distortion.
- (4) Non-microphonic performance due to a special form of anchored and bonded electrode assembly.

### CHARACTERISTICS.

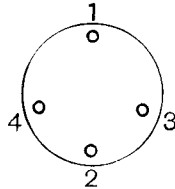
Filament Volts .. .. .	2.0 max.
Filament Current .. .. .	0.15 amp.
Anode Volts .. .. .	150 max.
Screen Volts .. .. .	75 max.

At Anode Volts 120—150  
Screen Volts 75

Grid Volts .. .. .	0	-1.5	-6	-9
Anode Current average .. .. .	4.3 m.a.	2.2 m.a.	0.1 m.a.	—
Screen Current average .. .. .	0.2 m.a.	0.05 m.a.	—	—
Mutual Conductance .. .. .	1.5 ma/volt	..	..	0.016ma/volt

#### Interelectrode Capacities :—

Anode-Grid (others earthed) .. .. .	0.0032 micro-microfarad approx.
Grid—other electrodes .. .. .	9.2
Anode—other electrodes .. .. .	8.7



View looking on  
underside of base

#### BASE, 4-PIN.

- Pin 1: Screen
  - 2: Grid
  - 3: Filament and Metallising
  - 4: Filament
- Top Cap: Anode.

For prices see  
pages 126-129.

Type VS24 is supplied with clear or metallised bulb, according to requirements.

## TYPE VS24/K

*Maximum Dimensions :*  
Overall length (including pins) 118 m/m.  
Diameter of bulb 36 m/m.

For prices see  
pages 126-129.

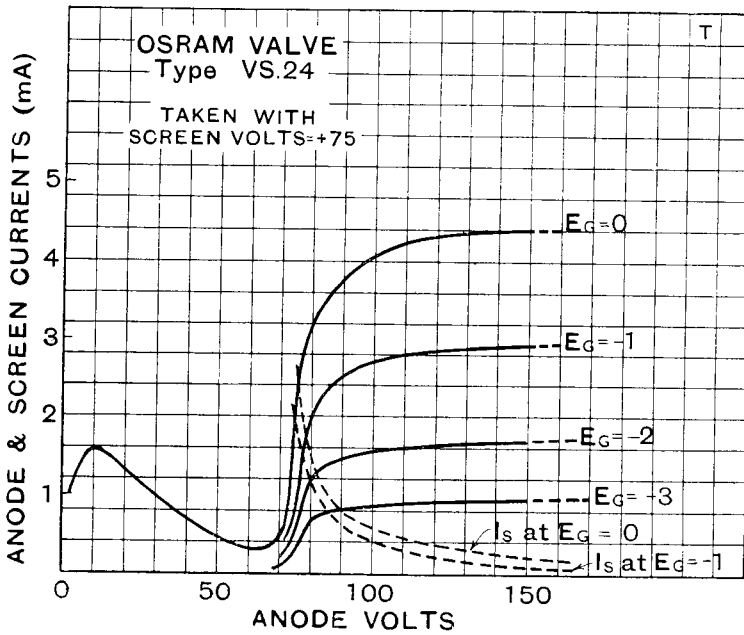
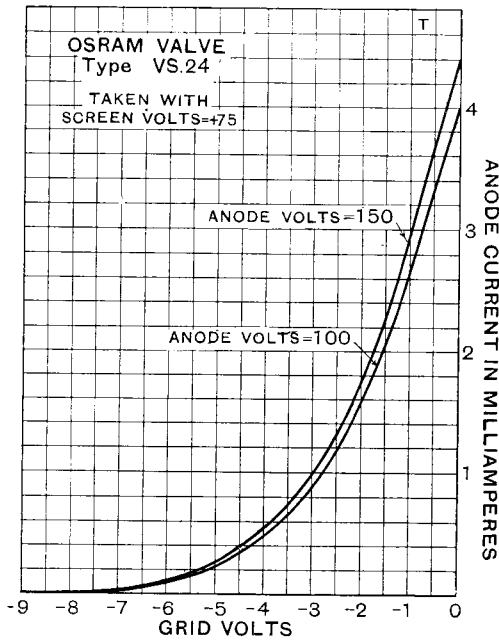
The OSRAM VS24/K is a “Variable Mu” Screen Grid Tetrode for use in 2-volt Battery-operated Receivers.

The outstanding feature of the VS24/K is its very small overall dimensions. This makes for considerable economy in space when applied to the design of compact receivers.

Characteristics as type VS24.

Base and pin connections as for type VS24.

# TYPE VS24 AND VS24/K



CHARACTERISTIC CURVES OF AVERAGE VALVE.