

Osram Valves

Made in England.

TYPE PX25A POWER AMPLIFYING TRIODE

With Directly Heated Filament.

The OSRAM PX25A is a Power Amplifying Triode, designed with a large power handling capacity to supply considerable undistorted volume.

It is intended for use in the last stage of Low Frequency Amplifiers, particularly in low impedance loading push-pull circuits, where provision is made for adequate high tension supply. Arrangements should be made for sufficient air circulation to prevent over-heating.

Maximum Dimensions :
Overall length (including pins) 160 m/m.
Diameter of bulb 66 m/m.

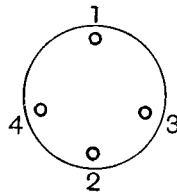
CHARACTERISTICS.

Filament Volts	4.0
Filament Current	2.0 amps. approx.
	Max.
Anode Volts	400 350 300
Grid Volts	-100 -85 -75
Anode Current average	62.5 ma. 60 ma. 50 ma.
Anode Dissipation	25 w. 21 w. 15 w.
Amplification Factor	{ 3.2 { 4
Impedance	{ 860 { 580 ohms.
Mutual Conductance	{ 3.7 { 6.9 ma/volt.
	measured at
	Anode Volts 400
	Anode Current 62.5 m.a.
Optimum Load Resistance	4,500 ohms. } for single
Automatic Bias Resistance	1,600 ohms. } valve
	measured at
	Anode Volts 100.
	Grid Volts 0.
	2,800 ohms. (anode
	to anode in low
	loading push pull)

Interelectrode Capacities :—

Grid—Anode	13.0 micro-microfarads approx.
Anode—Filament	6.5 " " "
Grid—Filament	10.0 " " "

For prices see
pages 126-129.



BASE, 4-PIN.

- 1: Anode
- 2: Grid
- 3: Filament
- 4: Filament

View looking on underside of base.

TYPICAL OPERATING CONDITIONS.

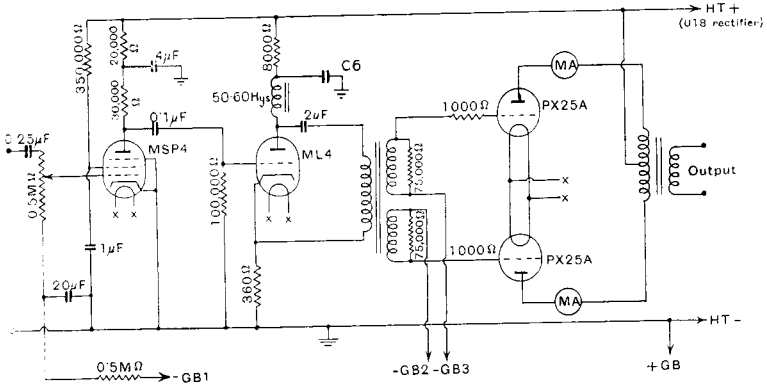
Under Class "A" conditions automatic grid bias is strongly recommended.

A common application of the PX25A valve is however the use of two such valves in a push-pull circuit involving low anode load impedance.

By the use of a pair of PX25A Valves in a push-pull circuit with low impedance loads, it is possible to obtain an undistorted power output up to 32 watts per pair. Complete operating details are obtainable on application.

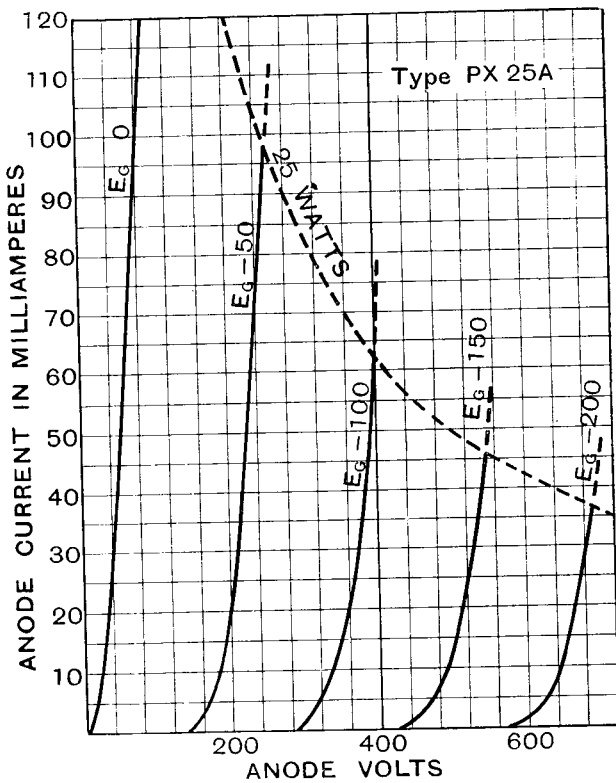
Care should be taken to switch off the power supply when inserting or removing the valve from its socket or when any adjustments are made to the circuit, such as alteration to grid bias.

TYPE PX25A



- GB1 1.5v.
 - GB2 } adjusted to give 57 m.a. each PX25A valve at anode voltage 440 (no load)
 - GB3 }
- Grid bias may conveniently be derived from a U10 rectifier & potentiometer network (total pot'r resistance not to exceed 25,000 ohms.)

TYPICAL CIRCUIT FOR 32 WATT AMPLIFIER.



(Taken with D.C. filament heating).

CHARACTERISTIC CURVES OF AVERAGE VALVE.