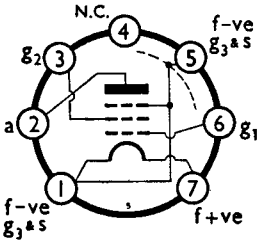




**MINIATURE
VARIABLE-MU R.F. PENTODE
1.4V DIRECTLY HEATED**

W17
OCTOBER, 1951

BASE CONNECTIONS AND VALVE DIMENSIONS



View from underside of base.

Base : B7G
Bulb : Tubular.

Overall length : 49—55 mm.
Seated length : 43—49 mm.
Max. diameter : 19 mm.

RATING

V_f	1.4	V
I_f	0.05 approx.	A
V_a	90 max.	V
V_{g2}	67.5 max.	V
I_k	5.5 max.	mA
r_a	} at $V_a=90, V_{g2}=67.5, V_{g1}=0$ {	} 0.5 0.9
g_m		

CAPACITANCES

c_{g1} —all 3.6 pF c_a —all 7.5 pF c_a — $g1$ 0.01 pF

TYPICAL OPERATION

V_a	45	67.5	90	90	V
I_a	1.7	3.4	1.8	3.5	mA
V_{g2}	45	67.5	45	67.5	V
I_{g2}	0.7	1.5	0.65	1.4	mA
V_{g1}	0	0	0	0	V
* V_{g1}	-10	-16	-10	-16	V

*For $g_m=10 \mu A/V$.

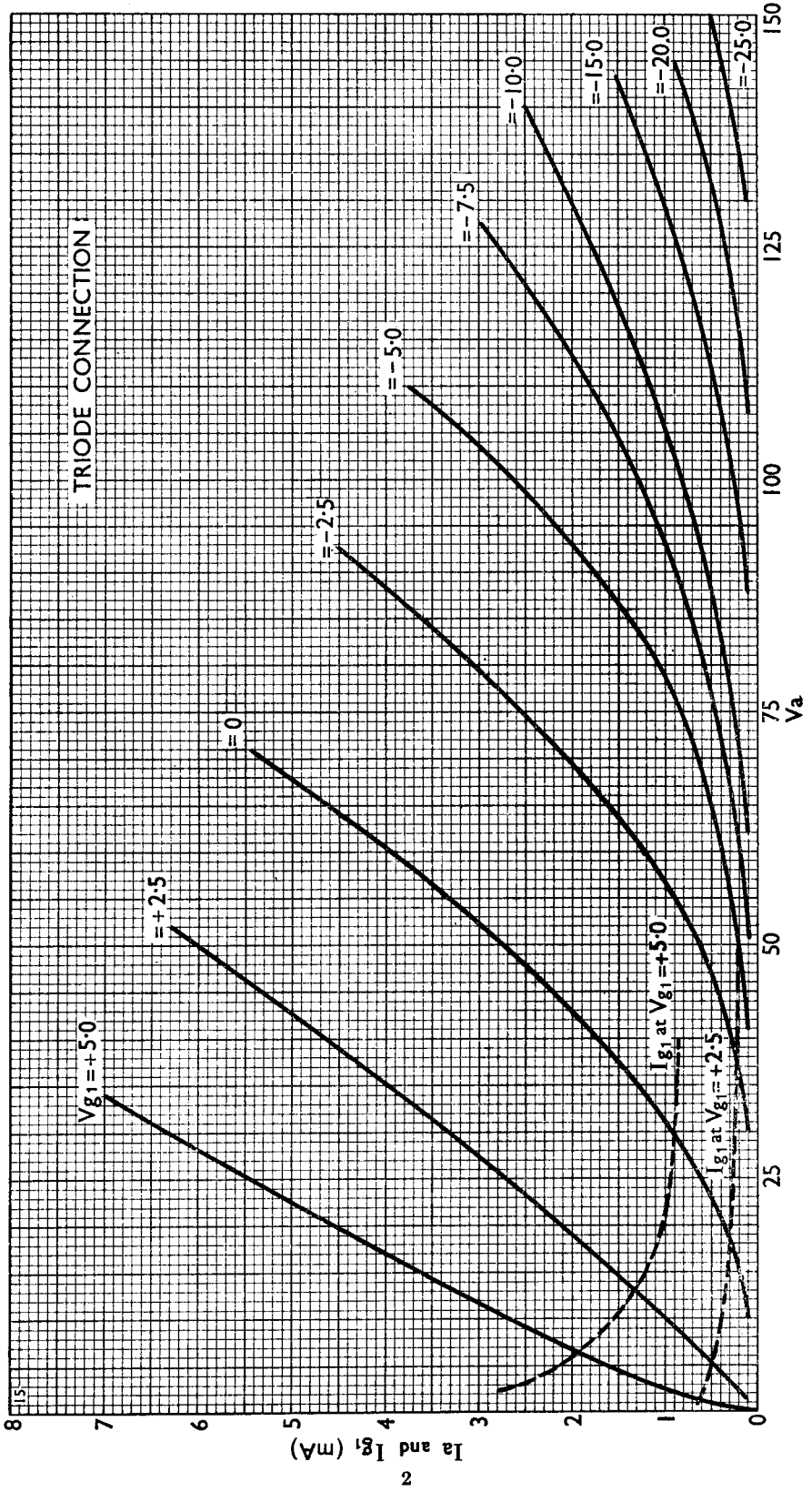
The screen grid may be supplied from a 90 volt source via a series resistor but the screen grid voltage must not exceed 67.5 at zero control grid voltage.

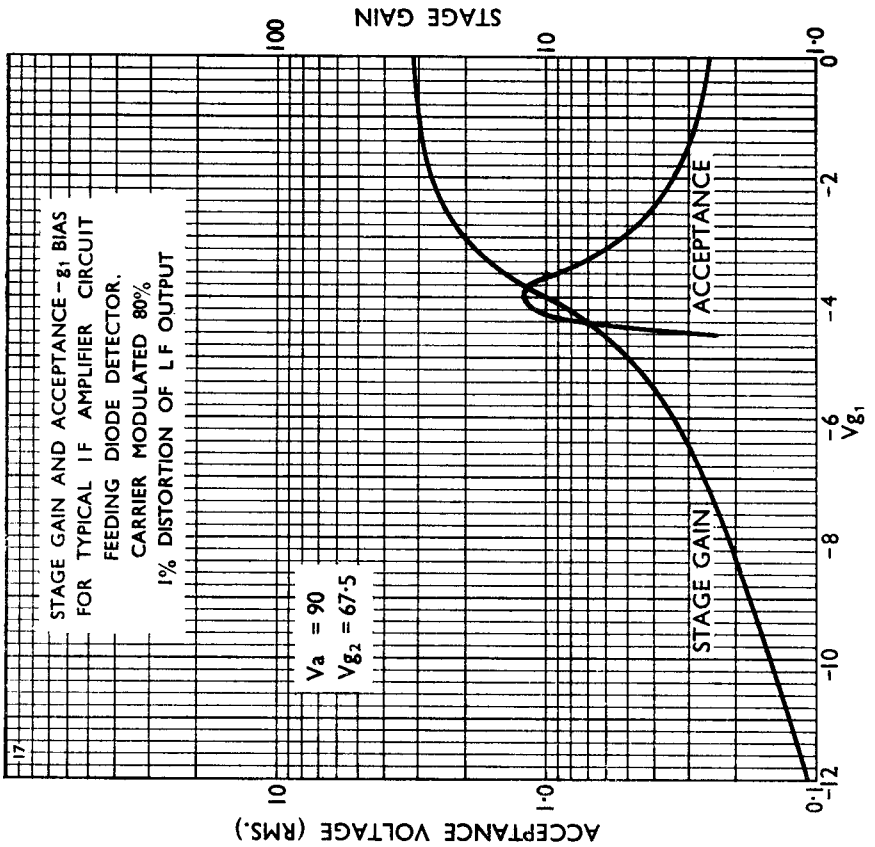
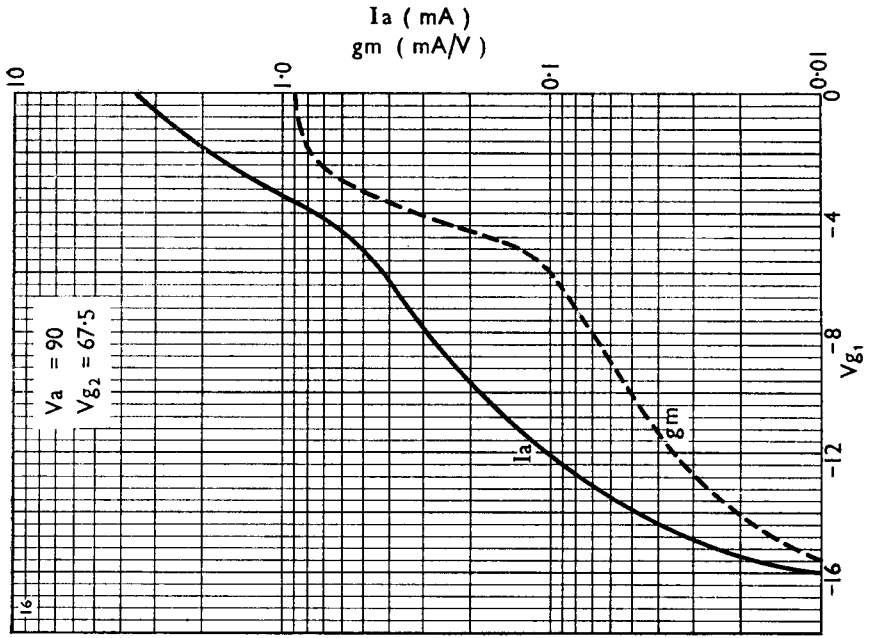
FILAMENT OPERATION

When operating the filament from a mains supply, the voltage should be adjusted to 1.3 or the current to 47.5 mA mean. Under certain conditions, a suitable shunt resistor will be required.

SCREENING

An internal screen is fitted and is connected to pins 1 and 5.





STAGE GAIN AND ACCEPTANCE - 81 BIAS
 FOR TYPICAL IF AMPLIFIER CIRCUIT
 FEEDING DIODE DETECTOR.
 CARRIER MODULATED 80%
 1% DISTORTION OF LF OUTPUT

