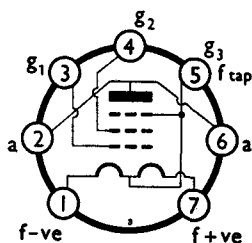




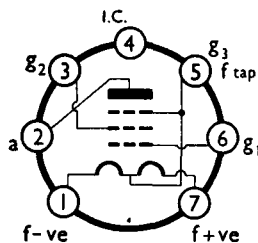
MINIATURE
OUTPUT PENTODES
1·4/2·8V DIRECTLY HEATED

**N18
N19**
OCTOBER, 1951

BASE CONNECTIONS AND VALVE DIMENSIONS



N18



N19

View from underside
of bases.

Base : B7G
Bulb : Tubular.

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

RATING

	Series	Parallel	
V_f	2·8	1·4	V
I_f	0·05 approx.	0·1 approx.	A
V_a	90 max.	90 max.	V
V_{g2}	90 max.	90 max.	V
$*I_k$	6 max.	6 max.	mA

*For each 1·4 volt filament section.

CAPACITANCES (of cold unscreened valve)

c_a —all 5·3 pF c_{g1} —all 5·6 pF c_a — g_1 0·35 pF

TYPICAL OPERATION

Pentode connection :

	Series		Parallel	
V_a	90	85	90	V
V_{g2}	90	85	90	V
V_{g1}	—4·5	—5	—4·5	V
v_{in} (pk)	4·5	5	4·5	V
I_a (o)	7·7	6·9	9·5	mA
I_{g2} (o)	1·7	1·5	2·1	mA
r_a	0·12	0·12	0·1	M Ω
g_m	2	1·9	2·1	mA/V
R_a	10	10	10	k Ω
D	7	10	7	%
P_{out} (max. sig.)	240	250	270	mW

MARCONI'S WIRELESS TELEGRAPH COMPANY LIMITED

Head Office : Marconi House, Chelmsford · Telephone : Chelmsford 3221 · Telegraphic Address : Expanse, Chelmsford

N18

N19

FILAMENT OPERATION

For parallel operation, pins 1 and 7 should be positive and pin 5 negative.

When operating the filament from a mains supply, the voltage should be adjusted to 1·3 per filament section or the current to 47·5 mA mean. Under certain conditions, particularly when series operated, a suitable shunt resistor will be required.

SCREENING

No internal or external screening is fitted to the valve.

MOUNTING

Any position.

RETAINING

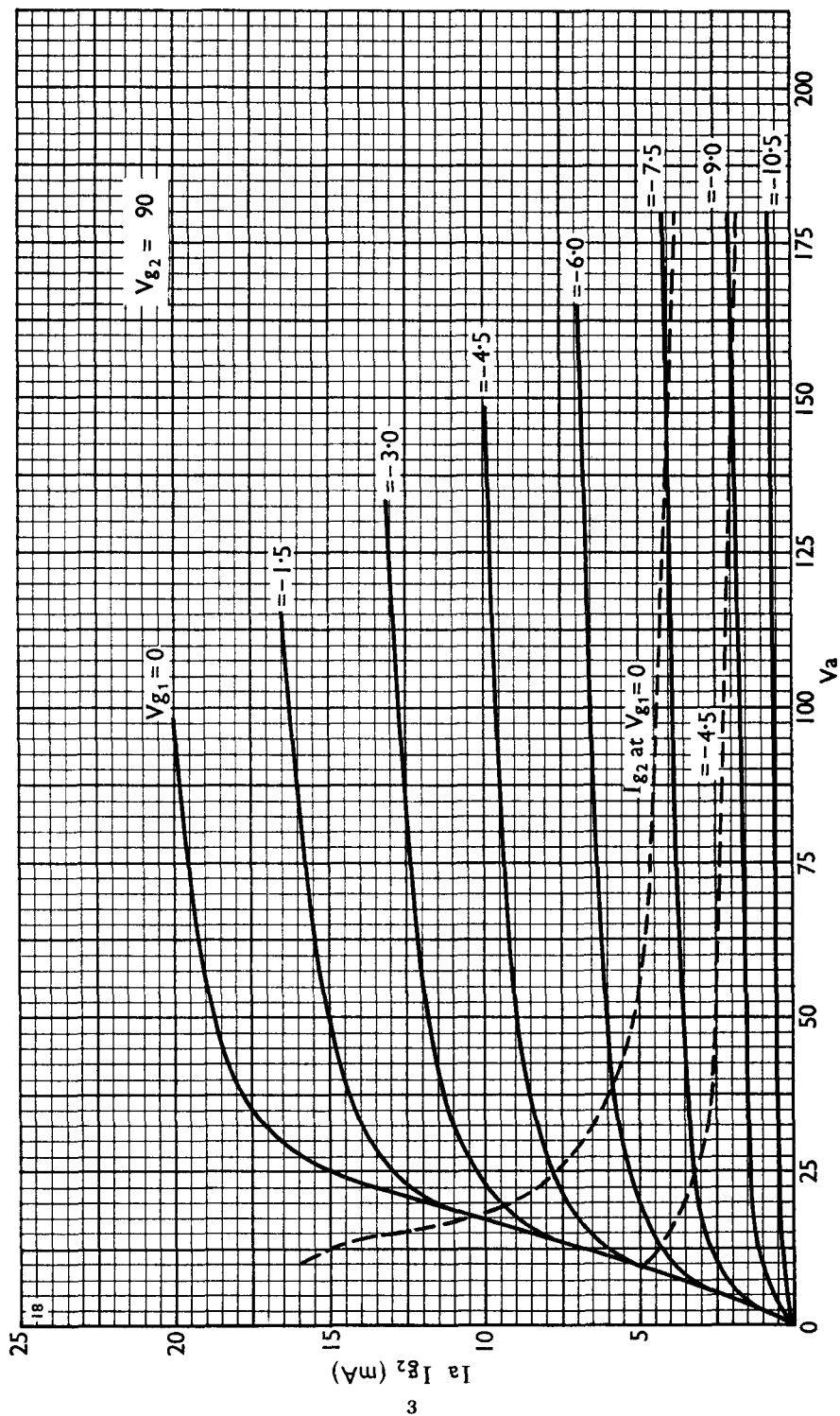
A retaining device should be used.

VENTILATION

No special precautions.

MICROPHONY

Although this is of a very low order, equipment should be designed to minimise microphony.



N18
N19

