ADMIRALTY SIGNAL ESTABLISHMENT

VALVE ELECTRONIC CV333

Specification AD/CV333/Issue 1. Dated 14.1.46. To be read in conjunction with K1001 ignoring clauses:- 5.2, 5.8.	SECURITY Specification [redacted] Valve [redacted]

TYPE OF VALVE:- Midget Pentode. CATHODE:- Directly heated, oxide coated tungsten. ENVELOPE:- Clear glass.	MARKING See K1001/4.

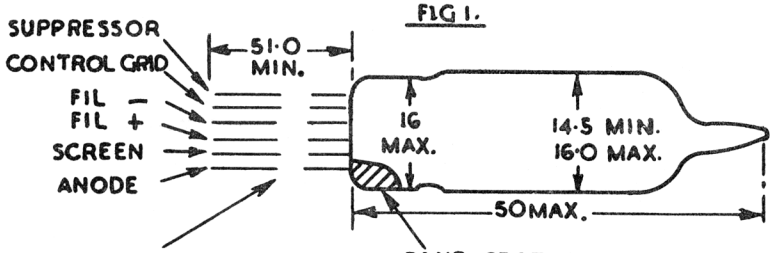
RATING		Note	BASE
			See Fig. 1.
Filament Voltage (V)	1.4		DIMENSIONS
Filament Current (mA)	120		See Fig. 1.

TESTS

To be performed in addition to those applicable in K1001, six weeks after manufacture.

	Test Conditions		Test	Limits		No. Tested
	Vf (V)			Min.	Max.	
a	0	Vg1 with respect to all other electrodes = 135 V.	Insulation G1 to rest (MΩ)	100	-	100%
b	0	Va with respect to all other electrodes = 135 V.	Insulation A to rest (MΩ)	100	-	100%
c	1.4		If (mA)	-	130	100%
d	1.4	Test in circuit shewn in Fig. 2.	"Ia" (μA)	50	-	100%
			"Vo" (V.RMS)	2.45	3.5	
e	Test (d) repeated with Vf = 1.1 V.		Decrease in output "Vo".	-	12%	100%
f	1.4	Valve to be operated in circuit shewn in Fig. 3. Vf to be on for 3 mins. and off for 60 secs. alternately. Valve run for 1,000 on/off cycles.	Life Test.	At end of test, the valve must pass test (e).		0.5% (5)

FIG 1.



LEADS TO BE TINNED TO WITHIN 12·5 MM. OF THE PINCH AND MUST BE NOT LESS THAN 1MM. APART BETWEEN CENTRES AT POINT WHERE THEY LEAVE PINCH.

BLUE SPOT TO INDICATE ANODE LEAD.

ALL DIMENSIONS ARE IN MILLIMETRES.

FIG 2.

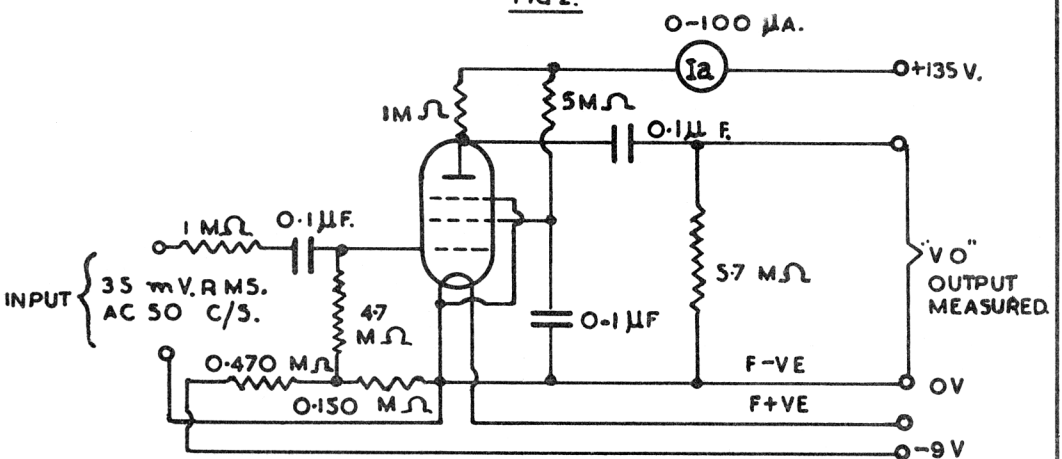
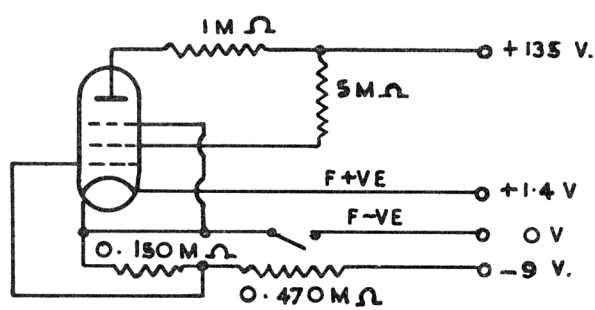


FIG 3.



NOTE:- RESISTANCES TO BE CORRECT TO WITHIN ± 2% CONDENSERS ± 20%.