UNITED KINGDOM ATOMIC ENERGY AUTHORITY (A.E.R.E.)

VALVE ELECTRONIC

CV2348

Specification A.E.R.E./CV	Γ	SECURITY								
Issue 2 Dated 8-8-55	<u>s</u>	pecification	Valve							
To be read in conjunction	with K.	U	NCLASSIFIED	UNCLASSIFIED						
TYPE - Electrometer Pento		MARKING								
CATHODE - Directly Heated		See K.1001/4								
ENVELOPE - Class.		Except that type number, date and factory code shall appear only.								
PROTOTYPE - VX.8117		BASE								
		See Drawing on Page 3								
RATING										
Filament Voltage	(V)	1,25				<u>ections</u> <u>and</u>				
Filament Current	(mA)	8,2			DI	MENS IONS				
Max. Anode Supply Voltage	(A.)	45			See Drawi	ng on Page 3				
Max. Control Grid Voltage	(V)	-50				······································				
Max. Screen Voltage	(V)	10								
Max. Cathode Current	(ua)	180				-				
Mutual Conductance	(uA/V)	11	A			•				
Amplification factor	(u)	110	A							
Grid Current	(A)	3 x 10 ¹⁵	Ä							
Notes - A. Measured at Va = 10v, Ia = 5uA, Vgl = -2.5v.										

- B. Anode voltage must be applied after the heater voltage to avoid excessive drift.
- C. Do not finger glass envelope within 1/2-in. of leads, and wires are not to be soldered nearer than 1/2-in. to the base to avoid contamination of the glass.

CV.2348/1/1

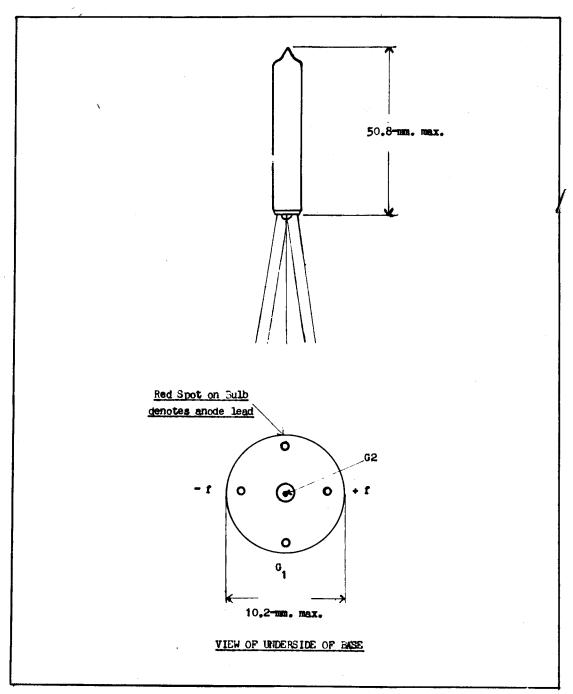
TESTS

To be performed at least one month after manufacture.

	Test Conditions						Limits		No.		
					Test		Min. Max.		Tested	Notes	
	Vf	Va	Ia	Vgl	¥g2	,					
a	1.25		<u> </u>			Ιf	(mA)	7.2	9,2	5 %	
Ь	1.25	10	5	-2.5	adj.	Vg2	(V)	5•0	7•5	100%	
•	1,25	10	5	-2.5	as (b)	;=	(ny/A)	8	-	100%	1
4	1.25	10	5	-2.5	as(b)	u		80	_		2
•	1.25	10	5	-2.5	as(b)	Igl	(A)	0	8 x 10 ⁻¹⁵	100%	3

NOTES

- 1. Measured by increasing the bias by not more than 0.1 volt.
- Measured by decreasing Va by between 3 and 5 volts, the anode current being maintained at 5-wA by adjusting Vg1.
- Measurements to be made in an electrostatically shielded, light tight container.



Z.9911.R.