

ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV3797/Issue No. 1. Dated : 29.9.51. To be read in conjunction with K1004.	<table border="1"> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td>Specification</td><td>Valve</td></tr> <tr> <td>Unclassified</td><td>Unclassified</td></tr> </table>	SECURITY		Specification	Valve	Unclassified	Unclassified
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<u>TYPE OF VALVE:-</u> Split Cathode Single Anode Vacuum Photo Electric Cell.			<u>MARKING</u> See K1001/4.	
<u>CATHODE:-</u> Caesium treated silver oxide.			<u>BASE</u> Mazda Octal	
<u>ENVELOPE:-</u> Glass.				
<u>PROTOTYPE:-</u> V.944A.				

NOTES

- Measured with $V_a = 25$ volts, colour temperature of source = 2848°K and diameter of projected circle of illumination = 14 mm.
- The spectral sensitivity shall correspond to the normal published characteristics of a caesium on silver cathode.
- The maximum voltage is considered to be the voltage which will never be exceeded at any time when the cell is illuminated. It is NOT to be marked on the cell.
- The working voltage is to be clearly and permanently marked on each cell.

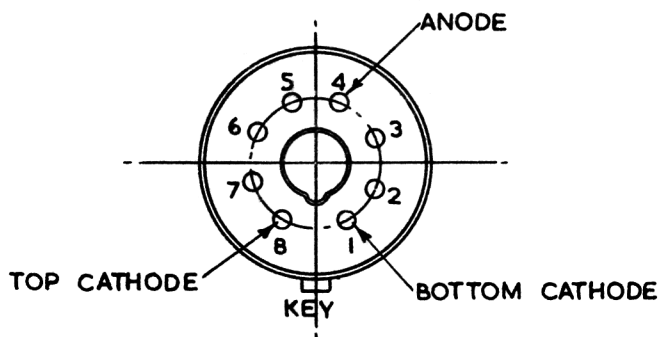
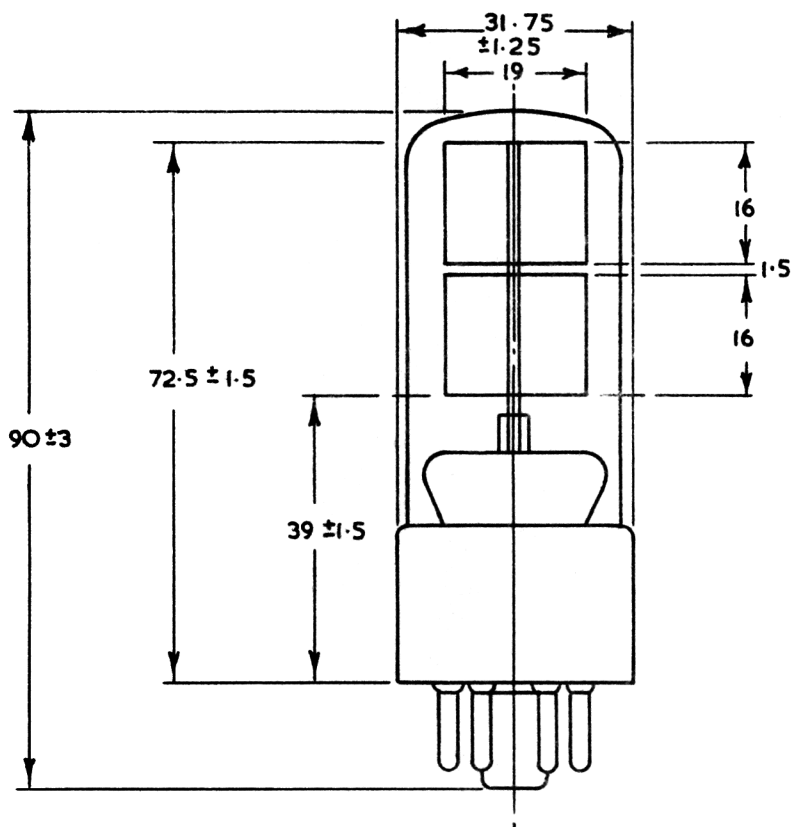
TESTS

To be performed in addition to those applicable in K1004.

	Test Conditions	Test	Limits		No. Tested	Note
			Min.	Max.		
a	Test each half of cell $V_a = 25$ V	Relative Sensitivity ($\mu A/L$)	The sensitivity of the weaker cell shall not be less than 75% of the other.		100%	1,2
b	$V_a = 25$ V	Sensitivity ($\mu A/L$) Test each cathode separately.	10.0	-	100%	1,2
c	$V_a = 90$ V Cell shielded from all sources of light.	I_a (μA) Test each cathode separately.	-	0.1	100%	2
d	Sensitivity with $V_a = 90$ Sensitivity with $V_a = 25$	Vacuum Test (Ratio)	-	1.3	100%	1,2

NOTES

1. With colour temperature 2848°K. Diameter of projected circle of illumination 14 m/m.
2. All the above tests will be carried out with a load resistance of not less than 0.1 M- Ω in the anode circuit.



ALL DIMENSIONS IN MILLIMETRES.