

Specification AD/CV161/Issue 3 Dated 14.11.46. To be read in conjunction with K1001, ignoring clauses:- 5.2, 5.8.			<u>SECURITY</u> <u>Specn.</u> Secret <u>Valve</u> Unclassified	
<u>TYPE OF TUBE</u> :- Vacuum photocell <u>CATHODE</u> :- Silver-oxygen-caesium (on envelope) <u>ENVELOPE</u> :- Glass, with photoelectric layer <u>PROTOTYPE</u> :- VS26.			<u>MARKING</u> See K1001/4. Additional Marking Serial No.	
<u>RATING</u>		Note	<u>BASE</u> B4 See K1001/AIV/D1.	
Min. sensitivity at $V_a = 100$ V. (μ A/lumen)	20		Pin	Electrode
Min. sensitivity at $V_a = 20$ V. (μ A/lumen)	10	1	1	Anode
Frequency for peak sensitivity (Angstrom Units)	7,500 to 8,500	1	2	No connection
		2	3	No connection
			4	No connection
			TC	Cathode
<u>NOTES</u> 1. With illumination by incandescent lamp of normal colour temperature. 2. The spectral sensitivity corresponds to the normal published characteristics of a silver- oxygen-caesium photo-cathode.			<u>TOP CAP</u> See K1001/AI/D5.4.	
			<u>DIMENSIONS</u> See Fig. 1.	
			<u>PACKING</u> See K1001/7.	

TESTS

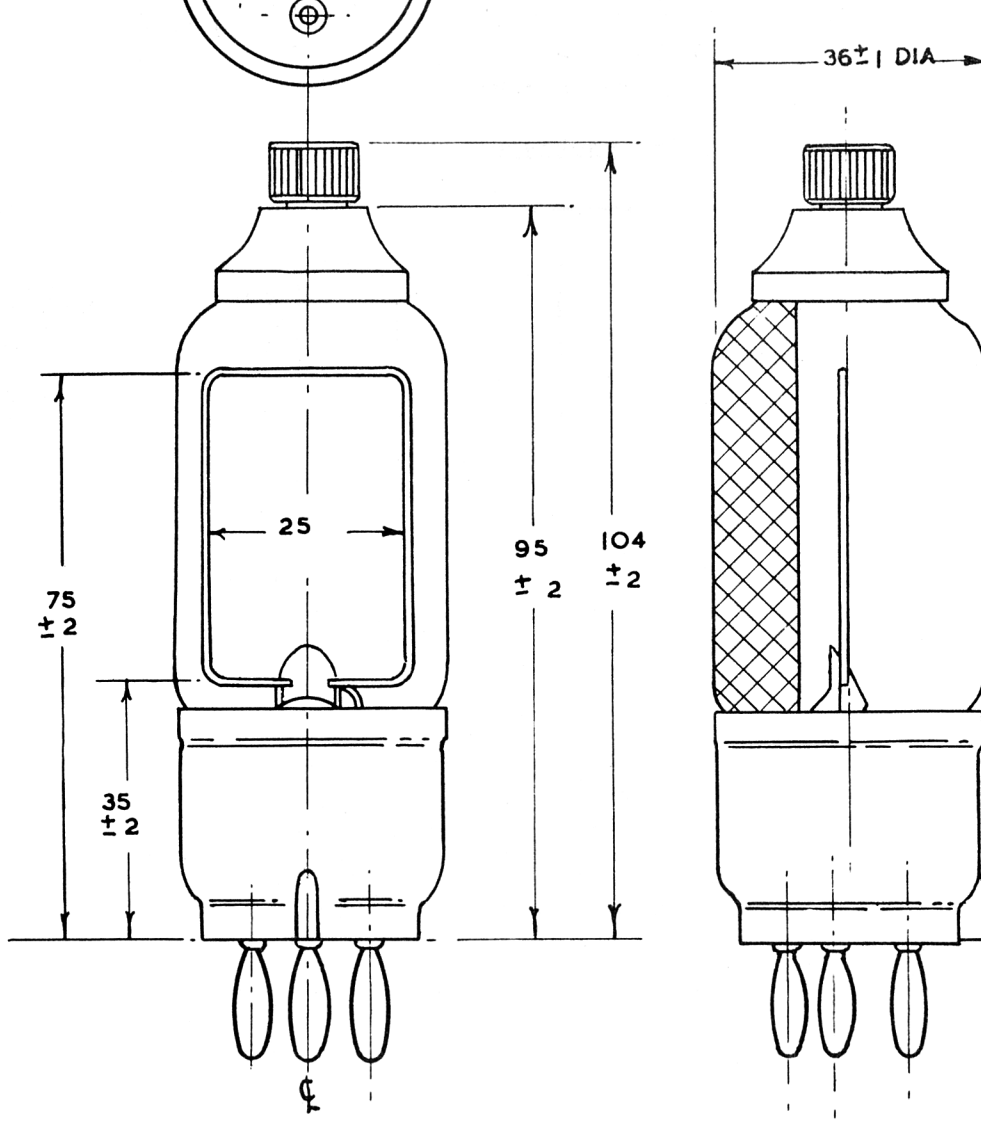
To be performed in addition to those applicable in K1001.

	Test Conditions	Test	Limits		No. Tested
			Min.	Max.	
a	Cell exposed to light of intensity 0.1 lumen L.G. radiation of 200 c.p. incandescent lamp running at correct operating voltage, at 175 cm. from cell. $V_a = 100$ V.	Photo- electric current I_a (μ A)	2	-	100%
b	As in test 'a' but with $V_a = 20$ V.	I_a (μ A)	50% value in test 'a'	-	100%
c	As in test 'a' continuously and without variation, for 24 hours. I_a measured throughout test.	I_a (μ A)	2	-	100%

FIG 1.

ANODE

VIEW FROM UNDERSIDE



NOTES:-

1. THE PORTION OF THE GLASS WALL OPPOSITE THE ANODE WHICH IS COVERED BY THE PHOTOELECTRIC LAYER SHOULD COMPRISE AT LEAST THE AREA BOUNDED BY THE PROJECTION OF THE ANODE LOOP ON THE GLASS WALL OF THE CELL IN THE DIRECTION PERPENDICULAR TO THE PLANE OF THE ANODE LOOP.
2. ALL DIMENSIONS ARE IN MILLIMETRES.