TYPE OF VALVE:-

VALVE ELECTRONIC

CV405

ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV405/Issue 5	SECURITY		
Dated :- 9.8.48.	Specn.	Valve	
To be read in conjunction with K1004.	Extended to	Unclassified	

Gas-filled Photo-

Indicates a change

MARKING

CATHODE:-	Electric Cell. Caesium on silver or			See 1	K1001/4, also Note B.	
ANODE:- ENVELOPE:- PROTOTYPE:-	approved alternative. Frame or Rod Type. Glass. GS47 CE25.			BASE American Pee-Wee 3-pin See Page 3.		
				Pin	Electrode	
RATING			Note	1 2	Anode Cathode	
Working Voltage	(v)	80-110	A	3	Blank	
Maximum Voltage	(v)	Working Volts	В	DIMENSIONS & CONNECTIONS		
+10			Б	See Page 3.		
Min. Sensitivity (/wa/lumen)				PACKAGING		
		75		See I	(1005.	

NOTES.

- A. The working voltage is to be selected by the manufacturer, within the limits stated, and shall be such that the conditions of the tests on Page 2 are fulfilled. It shall be a multiple of 5 and is to be clearly and permanently marked on each cell.
- B. 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.

CV405

TESTS

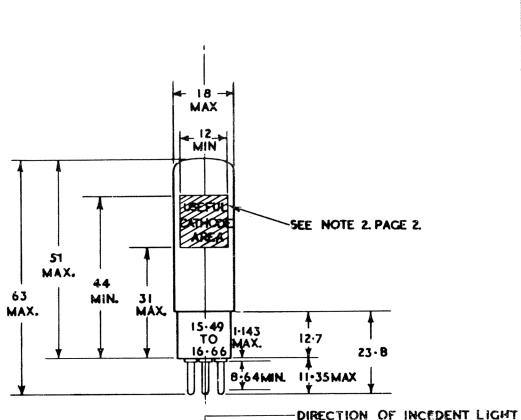
To be performed in addition to those applicable in K1004

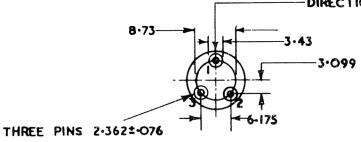
	Test C	onditions Light	Test (See Note 5)	Limits		No. Tested	Note
	(volts)	Flux (lumens)	(See Note 3)	Min.	Max.	103 000	note
а	х	0.02	Sensitivity (/ua/lumen)	7 5	_	100%	1,2, 3 & 4
ъ	x	Nil	Dark Current	-	0.1	100%	1,3, & 4.
c	x + 10	0.02	There must be no uncontrolled discharge.		-	100%	1,2, 3 & 4
đ	x + 1 0	Nil	Dark Current (/uA)	-	0.2	100%	1,3, & 4.
•	x + 20	Nil	Dark Current	-	0.2	100%	1,3, & 4.

NOTES.

- 1. x = working voltage as defined in Note 'A' Page 1.
- Light Flux is to illuminate a cathode area 13 mm x 12 mm, the centre of which is 16 mm from the top of the bulb. (See drawing on Page 3.)
- 3. Test to be carried out with resistance of 100,000 ohms ± 5% connected in series with the anode circuit.
- 4. All voltages in the above tests are measured across the cell and resistance in series.
- 5. Tests are to be carried out in the order given above and test 'd' is to follow immediately after observing test 'c'.

CV405/5/11





VIEW OF UNDERSIDE OF BASE ALL DIMENSIONS IN MILLIMETRES

SPECIFICATION AD/CV405/ISSUE 5 - 9.8.48.

AMENDMENT A

Page 2

Note 2

Delete :-

300 .-

Insert: :-

"is 37.5 mm from the soleplate".

"is 16 mm from the top of the bulb".

A.S.R.E. Extension,
Waterlooville,
Nr. Portsmouth, Hants.

December 1948.