MARKING

## ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV2132 Issue 2.	SECURITY		
Dated 12.6.51.	Specn. Unclassified	Valve Unclassified	
TYPE OF VALVE:- Vacuum Photo-			

Klectric Cell.

FIGCUIC OCIT.			BLAIGLING			
***************************************	Caesium Antimeny. Frame or Red Type. Glass.			See K1001/4. See Notes 'A' and 'B' below.		
PROTOTYPE:- 90AV.	<u>3</u> :- 90 <b>A∀.</b>			BASE		
RATING		B7G See K1001/AIV/D9.				
Note		Note	Pin	Electrode		
Working Voltage (V)  Max. Voltage (V)  Max. Cathode Current (vuA)	100	A B	1 2 3 4 5 6 7	Cathode Cathode Anode Anode Anode Cathode Cathode		
Min. Sensitivity (vuA/lumen)	30	-	DIMENSIONS See page 3.  PACKAGING See K1005.			

## NOTES

- A. The working voltage is to be clearly and permanently marked on each photocell.
- B. The max. 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.

Tests
To be performed in addition to those applicable in K1004.

	Test C	onditions		Limits		No.	
	Va (Volts)	Light Flux (lumens)	Test (See Test)	Min.	Max.	Tested	Note
а	50	0.04	Sensitivity (MA/lumen)	27•5	8	100%	1,2
р	100	0.04	Sensitivity (MA/lumen)	30.0	1	100%	1,2
c	100	0	Dark Current (µA)	P	0.05	100%	2
d	110	O• Or <sup>+</sup>	There must be no uncontrolled breakdown.	1	80	100%	1,2, 3,4
е	110	0	Dark Current (µA)	-	•1	100%	2,3
f	120	0	Dark Current (puA)	-	•1	100%	2

## NOTES

- 1. Light Flux is to illuminate a Cathode Area through a circular aperture of 1.0 cm diameter, the centre of which is to be 23 mm above the seat of the cell.
- 2. Test is to be carried out with a resistance of 100,000 ohms

  <u>+</u> 5% connected in series with the anode circuit. All voltages in the test are measured across the cell and the resistance in Series.
- 3. Tests are to be carried out in the order given above, and test 'e' to follow immediately after observing test 'd'.
- 4. Observation of photocell for breakdown should be of at least 10 secs. duration. Should the photocell exhibit any tendency to breakdown during this period, a further test of 2 minutes duration is to be made.

