## VALVE ELECTRONIC CVI472

## ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/O Dated: 4.12.47. To be read in conj	SECUR Specn. Restricted		UTY Valve. Unclassified									
indicates a change.												
TYPE OF VALVE:- Gas Filled Photo- Electric Cell. CATHODE:- Caesium on Silver, or approved				MARKING See K1001/4. BASES								
ENVELOPE:-	See K1001/AIV/D5.1											
PROTOTYPE:- CMG25 (Short)				Pin 1 2	Anode Catho	)	inducated company after a Philosophic regularization					
RATING			Note	3 4	No Connection No Connection							
Min. Extinguishing			_	DIMENSIONS See K1004/D1.  Dimension Min. Max.			-					
Voltage	(V)	100	A	Dimens	Dimension		Max.					
Working Voltage (V) Min. Sensi-		80–110	В	Amm Bmm		85.5	95•5 26					
tivity (uA/lu	men)	75		M mm M° mm N mm		64 -	36 -					
				PACKAGING See K1005.								
NO	TE TH	E FOLLOW	ING GENEI	RAL REQUI	REMENT	rs.						
A. The extinguishing voltage shall never be less than 20 V above the rated working voltage of the cell.												
B. The working voltage, correct to the nearest 5 V, shall be marked on each individual cell, in such a position that it does not interfere with the incident light flux.												
normal	The spectral sensitivity shall correspond to the normal published characteristics of a caesium on silver cathode, or of an approved alternative cathode.											

## CVI472

## TESTS

To be performed in addition to those applicable in K1004

				Limits		No.					
١		Test Conditions	Test	Min.	Max.	Tested	Note				
	a	Suitable light flux to be incident on the cathode  Va = x V. (i.e. working voltage).	Sensitivity (uA/lumen)	75	-	100%	1.2				
	ъ	Va = x V. Cell shielded from all sources of light.	Ia (nA)	-	0.1	100%					
*	O	Suitable light flux to be incident on the cathode.  Va = x + 10 V.	After 30 secs read Ia (= y/uA say) After further 60 secs Ia (uA)		y+10%	100%	1				
*	đ	Cell shielded from all sources of light Va = x + 10 V.	Ia (MA)		0.2	100%					
*	е	Cell shielded from all sources of light Increase Va to x + 20 V.	Ia (ALA)		0.2	100%					
		NOTES									
<b>*</b>		<ol> <li>A suitable light flux for testing is 0.04 lumen.         See also K1004/2.4.</li> <li>The working voltage 'x' (also referred to in Note B), is selected by the manufacturer, within the limits 80-110 V, such that the conditions of tests 'a', 'b', and 'c' are fulfilled.</li> <li>All of the above tests will be carried out with a load resistance of not less than 0.1 megohm in the anode circuit.</li> </ol>									
ł	CV14	-72/4/ii.	<del></del>								