VALVE ELECTRONIC

CV2193

GENERAL POST OFFICE: E-IN-C (S)

Specification: GPO/CV2193/Issue 1.	SECURITY			
Dated: March 1951	Specification	Valve		
To be read in conjunction with K 1001	Unclassified	Unclassified		

indicates a change

TYPE OF VALVE: Double beam oscillograph CATHODE: Indirectly heated ENVELOPE: Glass PROTOTYPE 89D SCREEN: GGN 28	MARKING See K1001/4		
		Note	Base None
Heater voltage (V) Heater current (A) A1 max. voltage (KV) A3 max. voltage (KV) A2 voltage for facus (V)	6.3 0.7 3.0 4.0 350 -50 750 Va3 650 Va3		Connexions See drawing on Page 4
Vg max, cut off (V) X Plate sensitivity mm/V Y Plate sensitivity mm/V (each beam)			Dimensions See drawing on Page 4
			Packing see K 1001/7.3
	I		

CV2193

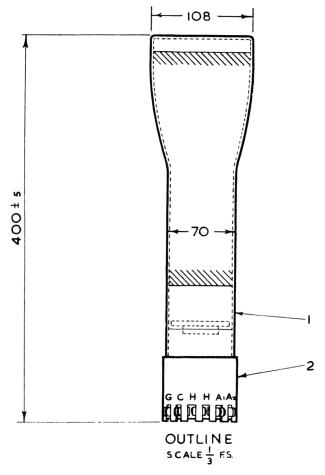
To be performed in addition to those applicable in K 1003

	Test Conditions					m = - ★	Limits		No.	Note
	Vh	Va3	Va2	Va1	٧g	Test		Max.	Tested	
a	6.3	0	0	0	0	Ih (A)	0.5	0.6	100%	
ъ	6.3	2 kV	Adjust for opti- mum focus	2 kV	Adjust to cut- off	Vg (V)		- 50	100%	
С	6.3	2 kV	do	2 kV	do	Difference in cut-off of (V) each beam		5	10%	
đ	outp	out of	l to gi	2kV ive lig F.C. o Prasto	on a	 Vg (V) Drop in brightness of each beam after deflection from screen (%) With in the range of grid voltage from cutoff to standard light output, the beam current shall increase continuously. Line width shall not be inferior to standard with identical raster. Va2 (V) 	- 25	- 50	100%	1
е			Adjust for opti- mum focus ection	2 kV	Any conven ient value	- Deviation of spot from centre of screen (mm)		7•5	100%	
f	6.3	2 kV	do	2 kV	do	Deflection sensitivities 1. X Axis (mm/V) 2. Y Axis	720 Va3 600 Va3	820 Va3 725 Va3	100%	

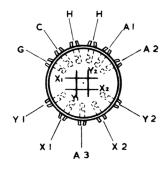
	Test Conditions						Limits		No.	Note
	٧h	Va3	Va2	Va1	۷g	Test	Min	Max.	Tested	
g	6.3	2 k V	Any conven- ient value		do	Angle between X & Y axis of deflection	88°	92°	100%	
h	Sawto	oth vo 72 pla	do ltage te, Y1	on X a	xis	1. Deviation of Y1 beam		1,76	100;3	
	Repeat with Y2 connected to A3.					2. Deviation of Y2 beam		1%	100%	
j	6.3	2 kV	do	2 kV	do	Useful Screen area "X" axis (mm) "Y" axis (mm)	90 55		100%	
	6.3 2 kV do 2 kV do Deflecting field to give a raster covering the useful screen area.			to giv	re a	The screen shall be uniform in colour and free from stain or patches.	`		100%	
1	6.3	2 kV	do	2 kV	-5 0	Grid insulation (Ma)	10			
m	4.0	0	0	0	5 0	Heater Cathode insulation Leakage current (µA)		200	100%	
p	6.3	4. 5kV	Any conven- ient value		Any conven ient value	- There shall be no persistent flash-over.			100%	

Notes

1. If burning occurs, raster may be increased in size and equivalent L.O. figure used.



DIMENSIONS IN mm.



LOOKING AT BASE END OF TUBE