## VALVE ELECTRONIC CV 439

## GENERAL POST OFFICE: E-IN-C ( W.)

Specification: G.P.O/CV.439/Issue 1.

Dated: September, 1950.

To be read in conjunction with K 1001

SECURITY

Specification

Valve

Unclassified

Unclassified

\_\_\_\_\_\_ indicates a change

TYPE OF VALVE: Electrostatic Deflection SCREEN: WWK ENVELOPE: Bulb internally coated PROTOTYPE 22/11 BXA	MARKING See K 1001/4  Base B12D			
Rating		NOTE	,	Connections
Heater Voltage (V)	4.0		Pin	Electrodes
Heater Current (A)	1.05		1	G
Max. final Anode Voltage (Kv)	6.0		. 2	c
			3	н
TYPICAL OPERATING CONDITIONS			. 4	н
	6.0		5 6	A1 A2
Final Anode Voltage (Kv) First Anode Voltage (Kv)	2.0		7	Internal coating
	1150		8	X1
X - plate sensitivity (mm/v)	Va 3		9	¥1
Y - plate sensitivity (mm/v)	1950		10	A 3
1 - prace sensitivity (mm, v)	Va 3		11	Y 2
·			12	X 2
				Dimensions
				(See drawing on page 3.)
		1		

							4			
·	TEST CONDITIONS				·	mpcm	LI	Limits		
	٧h	Va 3 (Kv)	Va2	Va1 (Kv)	۷g	TEST	MIN.	MAX.	tes <b>t</b> ed	NOTE
а						Capacitances  1. Each X or Y plate to all other electrodes  2. One X plate to one Y plate.  3. Grid to all other electrodes.	to be and co	Measurements to be recorded and collated.  Limits to be specified later.		
ъ	4.0	0	0	0	0	Ih (A)	.95	1.15	10 <b>0</b> %	
С	4.0	6.0	Adjust for optimum focus	2.0	Adjust as conve- nient	Va <sub>2</sub> (V)	800	1100	10 <b>0</b> %	
đ	4.0	6.0	ditto	2.0	Adjust to cut-off	Vg (V)	-40	-80	100%	
e	4.0	6.0	ditto	2.0	Adjust	SCREEN EFFICIENCY (c/w)	1.5		100%	1.
f	4.0	6.0	ditto	2.0	ditto	DEFLECTION SENSITIVITY  1. X plate (mm/v)  2. Y plate (mm/v)	1800 Va 3 1000 •Va 3	2100 Va 3 1300 Va 3	100%	
g	4.0	6.0	ditto	2,0	ditto	Deviation of spot from centre of screen (nm)	-	10	100%	
h	4.0	6.0	ditto	2.0	ditto	SPOT SIZE (mm)	-	1	100%	
j	0	0	0	O	0	ELECTRODE INSULATION RESISTANCE  1. g/c (M\Omega) 2. g/H (M\Omega)	10		10 <b>0</b> %	
k •			ut off just as		testd	Reduction in V mod as compared with test d	25	<b>45.</b>	100%	1.

NOTES 1. Vg adjusted to give 5 e.f.c. on a 20 cm/16 cm raster.

