## VALVE ELECTRONIC CV 440

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

Specification: GPO/CV440/Issue 1.	SECURITY
Dated: September 1950.	<u>Specification</u> Valve
To be read in conjunction with K 1001	Unclassified Unclassified

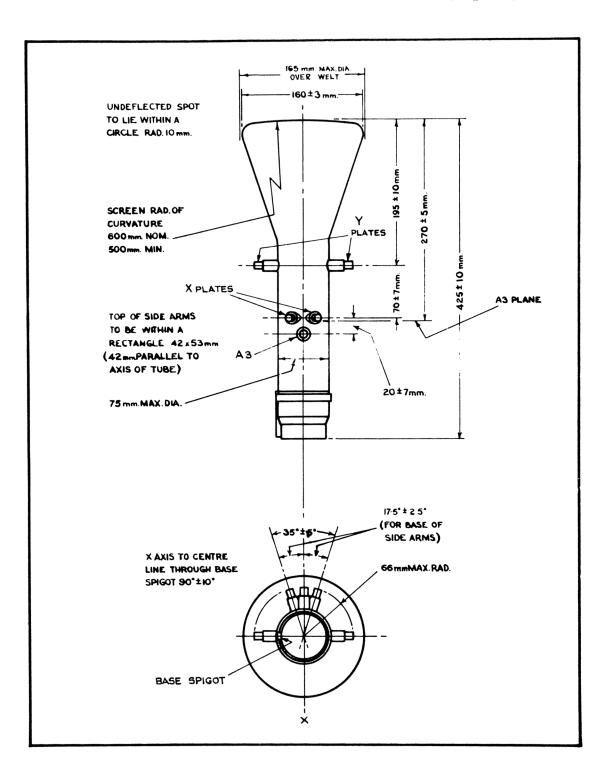
indicates a change

TYPE OF VALVE: Electrostatic Description   SCREEN GGK ENVELOPE: Internally coated was connected   PROTOTYPE 1601 ABC.	MARKING See K 1001/4  Base B12D						
Rating.		•	Note.		Connections.		
Heater Voltage	(V)	4.0		(Also see drawing on Page 3)			
Heater Current	(A)	1.05		Pin	Electrode		
Max final Anode Voltage	(KV)	3.5		1	G.		
				2	C.		
				3	Н.		
				4	Н.		
				5	<u>Al</u> .		
				6	A2.		
				7	n connection		
Typical Operating Conditions	•			8	u		
Final Anode Voltage	(KV)	3.5		9	a		
First Anode Voltage	(KV)	2.0		10	ij		
X - plate Sensitivity (mm/v)		1150		11	Ħ		
Y - plate Sensitivity (mm/v)		700 Va3		12	tt-		
		Vaj			Dimensions		
					(See drawing on page 3.)		

-		Test	Condit:	Conditions		And the state of t	Idmi	Limits		
	٧h	Va3 (KV)	Va2	$\frac{V_{al}}{(KV)}$	Vg	Test.	Min.	Max.	Te sted	Note
a						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.	Measurements to be recorded and collated.		100%	
ъ	4.0	0	0	0	0	Ih (A)	0.95	1.15	100%	
С	4.0		Adjust for optimum focus	2.0	Adjust as con- venient	Va2 (V)	650	950	100%	
đ	4.0	3.5	ditto	2.0	Adjust to cut- off	Vg (V)	-25	<b>-</b> 75	100%	
е	4.0	3.5	ditto	2.0	Ad just	SCREEN EFFICIENCY (Candles/Watt)	.5	-	100%	1
f	4.0	3•5	ditto	2.0	Adjust as con- venient	1 X Plate (mm/v)	950 620	1350 1350	100%	
g	4.0	3.5	ditto	2.0	ditto	DEVIATION OF SPOT FROM CENTRE OF SCREEN (mm)	-	10	100%	
h	4.0	3.5	ditto	2.0	ditto	SPOT SIZE (mm)	-	0.6	100%	
j	0	0	0	0	0	ELECTRODE INSULATION RESISTANCE  1 g/c (M \Omega )  2 g/h (M \Omega )	10	-	100%	
k	test	d.	cut of			Reduction in V mod as compared with test d.	12	25	100%	1

NOTE

1. Vg adjusted to give beam current 10  $\mu A$  and raster to be 10 cms X 10 cms.



## SPECIFICATION GPO/CV440/ISSUE 1.

## AMENDMENT NO. 1.

Page 2. TEST (e)

For Va3 (KV) of 3.5 read 5.0.

December, 1952

T. V. C. Office. (for G.P.O.)