

<u>Specification</u> G.P.O./CV 440 <u>Issue</u> 2 Dated September 1964 To be read in conjunction with K1001 and BS 448	<u>SECURITY</u>	
	<u>Classification</u> Unclassified	<u>Valve</u> Unclassified

← Indicates a Change

<u>TYPE OF VALVE</u> Cathode Ray Tube. Electrostatic Deflection and Focus <u>CATHODE</u> Indirectly Heated <u>ENVELOPE</u> Internally coated with conductive coating connected to A3 <u>PROTOTYPE</u> 1601 ABC.	<u>MARKING</u> See K1001/4	
<u>RATING AND CHARACTERISTICS</u> (Not for inspection purposes) <u>(ALL limiting values are absolute)</u>	<u>BASE</u> B 12 D	
	<u>SIDE ARM CAP</u> CT 2	
<u>Note</u>		
	PIN	ELECTRODE
Heater Voltage (V) 4.0	1	Grid
Heater Current (A) 1.05	2	Cathode
Max. Final Anode Voltage (KV) 5.0	3	Heater
	4	Heater
	5	Anode
	6	Anode
	7	No Connection
	8	No Connection
	9	No Connection
	10	No Connection
	11	No Connection
	12	No Connection
<u>Typical Operating Conditions</u>		
Final Anode Voltage (KV) 5.0		
First Anode Voltage (KV) 2.0		
X-Plate sensitivity (V/cm) 43.5		
Y-Plate sensitivity (V/cm) 71.6		
<u>DIMENSIONS</u> See Drawing Page 3		

To be performed in addition to those applicable in K 1001

TEST	TEST CONDITIONS						TEST	LIMITS		No	NOTE
	V _L	V _{a3} (KV)	V _{a2} (V)	V _{a1} (KV)	V _g (V)	I _b (μA)		MIN	MAX	TESTED %	
							<u>CAPACITANCES (PF)</u> (i) EITHER X PLATE TO ALL OTHERS (ii) EITHER Y PLATE TO ALL OTHERS (iii) EITHER X PLATE TO EITHER Y PLATE (iv) g TO ALL OTHERS		12 12 5 25	10	
a	4.0	0	0	0	0	0	I _h (A)	0.86	1.1	100	
b	4.0	5.0	Adjust for opt focus	2.0	Adj.	10	V _{a2} (V)	650	950	100	1
c	4.0	5.0	Adjust for opt focus	2.0	Adj.		- V _g (1) Cutt off (V)	RECORD -25	-75	100	
d	4.0	5.0	Adjust for opt focus	2.0	Adj.	10	V _g (2) (V)	RECORD		100	1
e							V _g (1) - V _g (2) (V)		12	100	2
							(V)		25	100	2
f	4.0	5.0	Adjust for opt focus	2.0	Adj.	10	Light output Candelas	0.025		100	1
g	4.0	5.0	Adjust for opt focus	2.0	Adj.		- Deflection Sensitivity 1 X Plate V/cm	53	37	100	
	4.0	5.0	Adjust for opt focus	2.0	Adj.		- 2 Y Plate Y/cm	86	61	100	
h	4.0	5.0	Adjust for opt focus	2.0	Adj.		Deviation of spot - from centre of Screen (mm)		10	100	
j	4.0	5.0	Adjust for opt focus	2.0	Adj.		- Line Width (mm)		0.6	100	3
k	4.0	5.0	NOM	2.0	-100		- I _g (μA)		10	100	

NOTES

CV 440/2/2

1. Test conducted with 10 cm x 10cm raster.
2. The 12V limit applies to V_g(1) = -25V and the 25V limit to V_g(1) = -75V. All limits between these values are proportional.
3. Line width is measured on two lines successively at 90° at centre of trace, with a pulsed drive equivalent to the DC value for I_b = 10 μA obtained from test (e)

