

Specification MAP/CV1546/Issue 2 Dated 11.9.46. To be read in conjunction with K1003	<table> <tr> <th colspan="2"><u>MARKING</u></th></tr> <tr> <td><u>Specification</u></td><td><u>Valve</u></td></tr> <tr> <td>RESTRICTED</td><td>RESTRICTED</td></tr> </table>	<u>MARKING</u>		<u>Specification</u>	<u>Valve</u>	RESTRICTED	RESTRICTED
<u>MARKING</u>							
<u>Specification</u>	<u>Valve</u>						
RESTRICTED	RESTRICTED						

→ Indicates a change

<u>TYPE OF DEFLECTION:</u> Magnetic				<u>MARKING</u>	
<u>TYPE OF FOCUS:</u> Magnetic				See K1001/4	
<u>BULB:</u> Internally coated with conductive coating				<u>BASE</u>	
<u>SCREEN:</u> BYL 46				I.O.	
<u>RATING</u>			Note	Pin	Electrode
				1	No connection
Heater Voltage (V)			4.0	2	Heater
Heater Current (A)			1.0	3	Pin omitted
Max. Anode Voltage (kV)			9.0	4	Pin omitted
				5	Grid
				6	Pin omitted
				7	Heater
				8	Cathode
				Side Contact	Anode
<u>NOTE</u>				<u>SIDE CONTACT</u>	
A. The bulb and neck shall be reasonably free from stones, bubbles and cords.				Plug cap to conform to BSS 448	
				<u>DIMENSIONS</u>	
				See drawing on page 4	

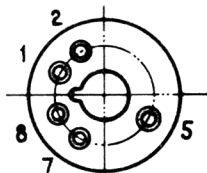
To be performed in addition to those applicable in K1003

	Test Conditions			Test	Limits		No. Tested
					Min.	Max.	
a	See K1003/5.12			Capacitances(pF) Grid to all other electrodes	-	10	5% (5)
b	Vh	Va(kV)	Vg	Ih (A)	0.8	1.2	100%
	4.0	0	0				
c	4.0	4.0	Adjust for cut-off. With the tube positioned in the coil unit (See Note 2) and the focus adjusted for optimum spot size.	Vg (V) Value to be noted	-30	-65	100%
d	4.0	4.0	- Vg adjusted to give a light output of 0.12 candles when viewed through a C2 filter, (Type 26, Ref.10AB/474) on a close raster of convenient size.	(1) Vg (V) (2) Change in value of Vg from test (c) (V) (3) Within the range of grid voltage from cut-off to light output, the beam current shall increase continuously	-1 -	- 25	100% 100%
e	4.0	4.0	- Focus adjusted for optimum. <u>DEFLECTION</u> - With a sine wave line scan of 50 c/s nom. & a line length of 255 mm. in X & Y directions successively, the line width will be measured at the centre of the trace. (Duty ratio = unity)	(1) Focus coil current (mA) (2) Line Width (mm)	83 -	105 1.6	T.A.

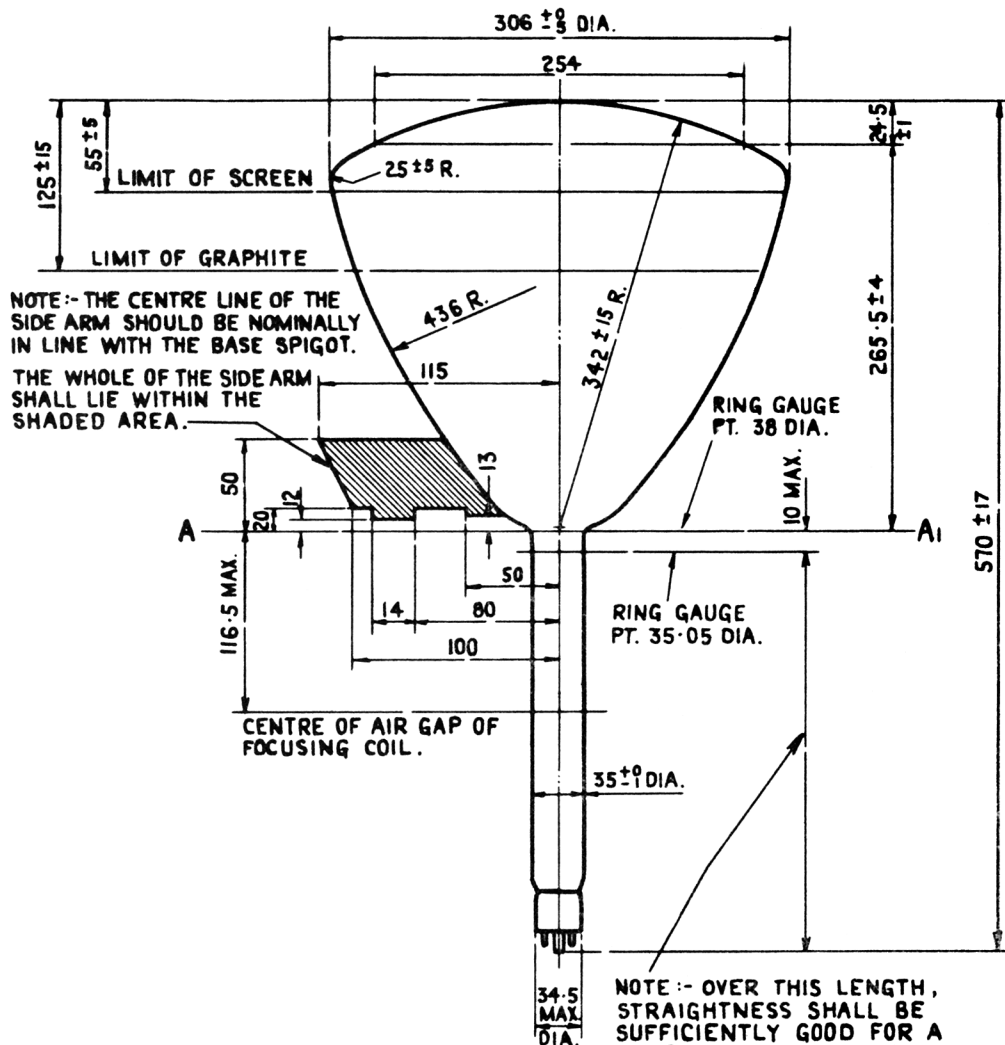
	Test Conditions			Test	Limits		No. Tested
					Min.	Max.	
f	Vh	Va(kV)	Vg	Grid Insulation 1. Leakage Current (μ A) 2. Increase in Voltmeter reading	-	6.5	100%
	4.0	4.0	-65				
	Recommended Methods:- See K1003/5.4.2. Resistor = 10 M Ω						
g	4.0	4.0	Any convenient value	Useful Screen Area Diameter (mm)	255	-	100%
	Focus adjusted for optimum. Deflection to cover stated circle centred on centre of screen.						
h	4.0	4.0	Near cut-off	Deviation of spot from centre of screen	-	15	100%
	No focussing coil energisation.						
j	4.0	4.0	Any convenient value	The screen shall not be worse for graininess and uniformity than a standard tube or pattern.			
k	4.0	4.0	-	Afterglow (secs.)	Results to be collated		10%
	Test to be done in Test Set 331, using a close raster of convenient size.						

NOTES

1. For the purpose of tests (c), (d), (e), (g), (h) and (k) the focussing fields required are to be obtained by means of rotating gear unit magnetic, Reference No. 10QB/66, with the focussing coil in its mean position.
2. The tube will be mounted with the front edge of the coil assembly mounting set 1.5 mm. from axis AA¹. (See drawing on page 4).



VIEW OF UNDERSIDE OF BASE.



ALL DIMENSIONS IN MILLIMETRES.

AMENDMENT to CV. 1546 Issue 2

Page 2. Test e (2)

Under No. Tested add 100%

T.V.C. Office.

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