

Specification MAP/CV1140/Issue 3
Dated 10.6.45.
To be read in conjunction
with K1003.

SECURITY

Specification
RESTRICTED

Valve
RESTRICTED

TYPE OF DEFLECTION Magnetic

BULB Internally coated with
conductive coating

SCREEN	Afterglow
1	1
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100	100

MARKING

VCR. 140

10CV/1140

BASE

International Octal

Pin		Electrode
1		1
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RATING

Heater Voltage (V)
Heater Current (A)
Max Anode Voltage (kV)

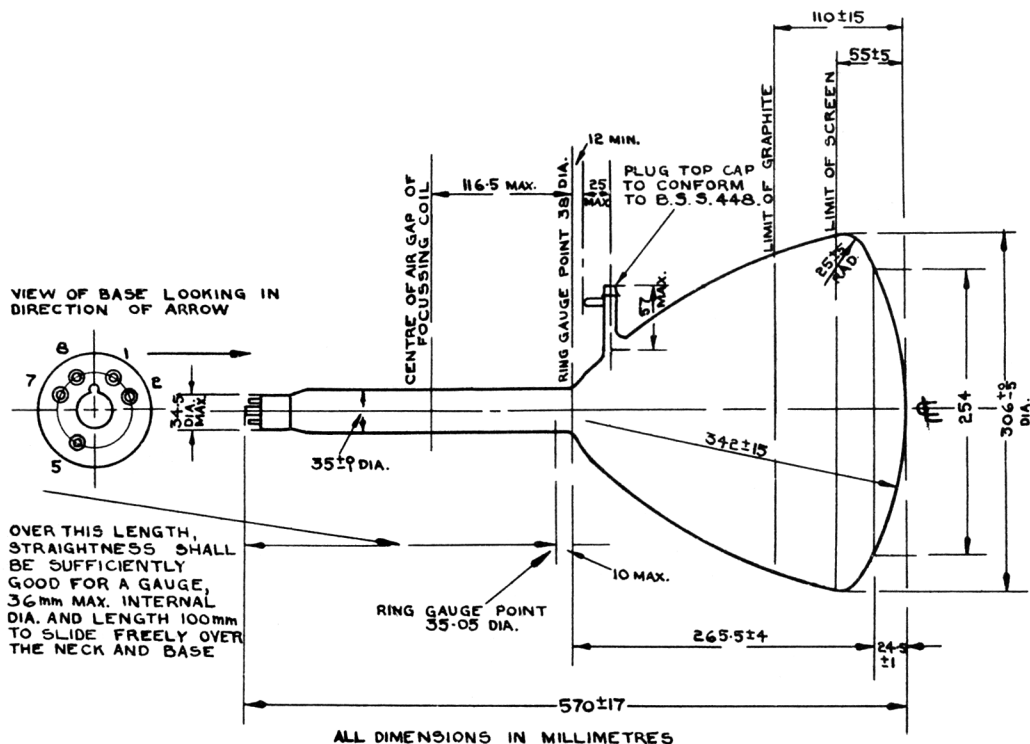
Note

4.0
1.2
5.0

1	No connection
2	Heater
3	Pin omitted
4	Pin omitted
5	Grid
6	Pin omitted
7	Heater
8	Cathode
Side	Anode

DIMENSIONS

See drawing below



→ Indicates a change

To be performed in addition to those applicable in K1003

Clause	Test Conditions				Test	Limits		No. Tested
	Vh	Va (kV)	Vg	Ib (μ A)		Min.	Max.	
(a)	See K.1003/5.12				Capacitance (pF) Cg-all	-	10	5% (5)
(b)	4.0	Cathode 50 V. positive to heater.			Ih - o (μ A)	-	200	100%
(c)	4.0	0	0	0	Ih (A)	1.05	1.35	100%
(d)	4.0	4.0	Ad-justed	15	1. Spot size (mm) 2. Spot intensity. 3. Vg	- Not worse than standard tube To be at least 14V. (-) ve to cathode	1.5	100% 100% 100%
(e)	4.0	4.0	Ad-justed	3.0	Increase in negative Vg compared with value in (d.3)	-	7	100%
(f)	4.0	4.0	Ad-justed to cut off	-	1. Vg 2. Increase in negative value of Vg compared with value noted in test (e)	-30 -	-65 9	100% 100%
(g)	4.0	4.0	Any convenient value	-	Grid insulation (megohms)	10	-	100%
(h)	4.0	4.0	ditto	-	Focussing conditions as in test (d) Deflecting field to give a repeating line trace of 25.5 cms length on the centre of the tube.			There shall be no shadowing at any orientation of the trace 100%
(j)	4.0	4.0	ditto	-	Deviation of spot from centre of screen (mm)	-	25	100%
(k)	4.0	4.0	ditto	-	No focussing coil energisation Deflecting fields to give a raster 180 mm x 180 mm approx.			The Screen shall not be worse for graininess and uniformity than a standard tube 100%
(l)	4.0	4.0	-	-	Life (hrs)	500	-	1%
	Normal brightness and continuous spot movement over a raster 200 mm x 60 mm							