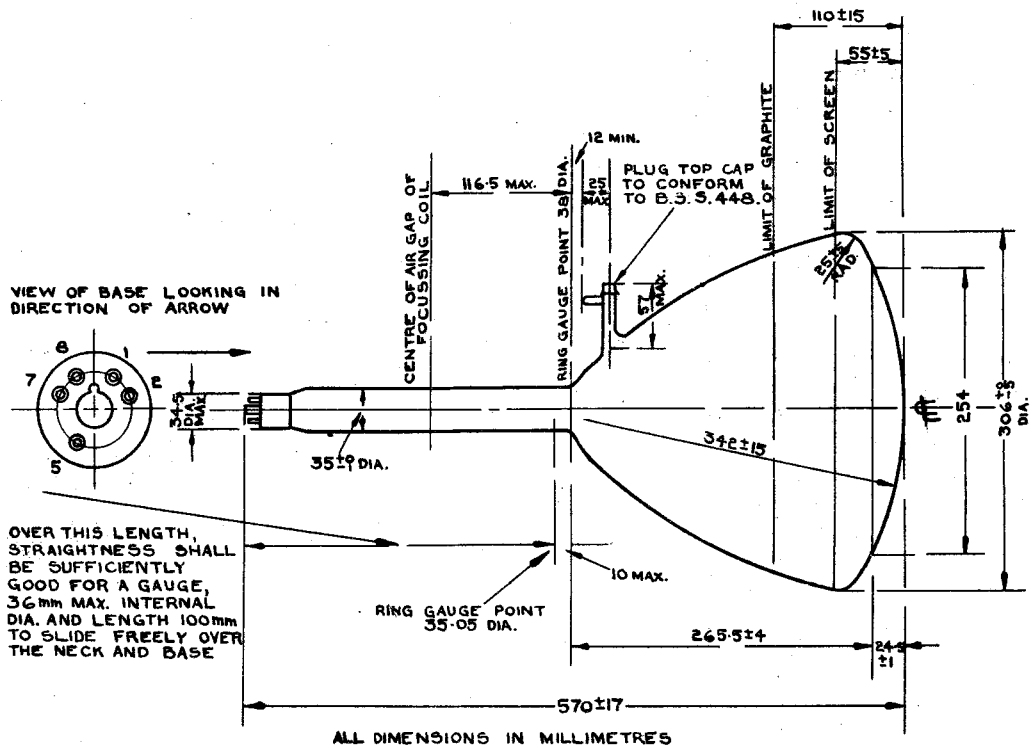


Specification MAP/CV1140/Issue 3 Dated 10.6.45. To be read in conjunction with K1003.	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> RESTRICTED

<u>TYPE OF DEFLCTION</u> Magnetic		<u>MARKING</u> VCR.140 10CV/1140	
<u>BULB</u>	Internally coated with conductive coating	<u>BASE</u> International Octal	
<u>SCREEN</u>	Afterglow	Pin	Electrode
<u>RATING</u>		1	No connection
		2	Heater
		3	Pin omitted
		4	Pin omitted
		5	Grid
		6	Pin omitted
		7	Heater
		8	Cathode
		Side Contact	Anode
Heater Voltage (V) Heater Current (A) Max Anode Voltage (kV)	4.0 1.2 5.0	Note	
		<u>DIMENSIONS</u> See drawing below	



To be performed in addition to those applicable in K1003

Clause	Test Conditions				Test	Limits		No. Tested
	Vh	Va (kV)	Vg	Ib (μA)		Min.	Max.	
(a)	See K.1003/5.12				Capacitance (pF) Gg-all	-	10	5% (5)
(b)	4.0	Cathode 50 V. positive to heater			Ih - o (μA)	-	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	-	1.5 Not worse than standard tube	100% 100%
	Front edge of coil assembly mounting set 1.5 mm from axis A A' (See drg. on page 1). Coil current adjusted for optimum focus. scan length of 125 mm in X and Y directions successively.						To be at least 14V. (-) ve to cathode	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%
	Focussing conditions as in test (d)							
(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.							100%
(j)	4.0	4.0	ditto	-	Deviation of spot from centre of screen (mm)	-	25	100%
	No focussing coil energisation							
(k)	4.0	4.0	ditto	-	The Screen shall not be worse for graininess and uniformity than a standard tube	-	-	100%
	No focussing coil energisation Deflecting fields to give a raster 180 mm x 180 mm approx.							
(l)	4.0	4.0	-	-	Life (hrs)	500	-	1%
	Normal brightness and continuous spot movement over a raster 200 mm x 60 mm							