

Specification MAP/CV1103/Issue 7 Dated 16.9.47. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> UNCLASSIFIED

—————> Indicates a change

<u>TYPE OF VALVE</u> - Tuning Indicator <u>CATHODE</u> - Indirectly heated <u>ENVELOPE</u> - Glass-unmetallised <u>PROTOTYPE</u> - Y63	<u>MARKING</u> See K1001/4
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<u>RATING</u>	Note	<u>BASE</u> I.O.	
Heater Voltage (V) 6.3	A	Pin	Electrode
Heater Current (A) 0.3		1	No connection
Max. Anode Voltage (V) 250		2	Heater
Max. Target Voltage (V) 250		3	Anode
Target Current (approx.) (mA) 4.5	B	4	Target
Triode Current (approx.) (mA) 0.24	C	5	Control grid
Triode grid volts for 0° shadow angle (approx.) (V) -22	C	6	Pin omitted
		7	Heater
		8	Cathode

<u>NOTES</u>		
A. The valve must operate satisfactorily over a heater voltage range of 5.7 to 7.5 volts.		
B. At $V_g = 0$.		
C. At $V_a = 250$, through 1 MΩ		
<u>DIMENSIONS</u> See K1001/AI/D1.		
Dimension	Min.	Max.
A (mm)	101	107
B (mm)	-	40

To be performed in addition to those applicable in K1001.

	Test Conditions				Test	Limits		No. Tested	Notes
	Vh	Va	Vt	Vg		Min.	Max.		
For tests b, f, g and h the anode voltage is to be applied through a resistance of $1M\Omega \pm 1\%$.									
a	6.3	0	0	0	Ih (A)	0.27	0.33	100% or S	
b	6.3	180	180	-	The target shall be reasonably free from uneven brightness and from poorly defined and irregular shadow edge			100%	1
Vg adjusted so that the shadow is not quite closed.									
c	6.3	250	250	-6	Ia (mA)	4.0	9.3	100%	
d	6.3	250	250	-6	Target Current (mA)	0.5	6.5	100%	
e	6.3	250	250	-6	Reverse Ig (μ A)	-	1.0	100%	
f	6.3	250	250	-3	Shadow to be open to an angle of approx. 60 degrees			100%	2
g	6.3	250	250	-16	Shadow shall not be closed			100%	2
h	6.3	250	250	-40	Shadow shall be closed at outer edge, and any gap at inner edge must not exceed 1 mm.			100%	2

NOTES

1. This test must be carried out before any of the tests in which $V_a = V_t = 250V$.
2. Under the conditions specified for tests f, g and h, the target shall be reasonably free from:-
 - a. Uneven brightness of illuminated section.
 - b. Bright patches in the shadow section.
 - c. Poorly defined and irregular shadow edge.