

Specification DCD/CVI577/Issue 6 Dated 12/7/46 To be read in conjunction with K1001.	<table> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td>Specification RESTRICTED</td><td>Valve RESTRICTED</td></tr> </table>	SECURITY		Specification RESTRICTED	Valve RESTRICTED
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→ Indicates a change

<u>TYPE OF VALVE</u> - Output Tetrode (Pentode characteristic) <u>CATHODE</u> - Indirectly heated <u>BULB</u> - Glass-unmetallised <u>PROTOTYPE</u> - KT 44	<u>MARKING</u> See K1001/4
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<u>RATING</u>		Note	<u>BASE</u> B7	
Heater Voltage (V)	4.0	A	<u>Pin</u>	<u>Electrode</u>
Heater Current (A)	2.0		1	No connection
Max. Anode Voltage (V)	400		2	Control grid
Max. Screen Voltage (V)	300		3	Beam forming plates
Max. Anode Dissipation (W)	25	B	4	Heater
Max. Screen Dissipation (W)	0.3		5	Heater
Mutual Conductance (mA/V)	6.25		6	Cathode
			7	Screen Grid
			Top Cap	Anode

<u>NOTES</u> A:- The anode voltage may rise to 1000 volts when the anode current falls to zero. B:- $V_a = 250$, $V_{g2} = 250$, $I_a = 85\text{mA}$.	<u>PLUG TOP CAP</u> See K1001/AI/D5.1.		
	<u>DIMENSIONS</u> See K1001/AI/D1.		
	Dimension	Min.	Max.
	A mm	144	152
	B mm	-	57

To be performed in addition to those applicable in K1001.

	Test Conditions				Test	Limits		No. Tested
						Min.	Max.	
	Before the tests are made, the valve shall be run for a period of 5 minutes with $V_h = 4.0$, $V_a = V_{g2} = 250$, and $I_a = 85$ mA. The beam forming plates shall be connected to the cathode during this warming period and during the following tests.							
	V_h	V_a	V_{g2}	$I_a(\text{mA})$				
a	4.0	0	0	0	I_h (A)	1.8	2.2	100% or S
b	4.0	250	250	85	V_{g1} (V)	-11.5	-20.0	100%
c	4.0	250	250	85	I_{g2} (mA)	-	11.0	100% or S
d	4.0	250	250	85	Reverse I_{g1} (μA)	-	2.5	100%
e	4.0	250	250	85	g_m (mA/V)	5.0	7.5	100%
	Peak grid swing $\pm 1.0\text{V}$. max.							
f	4.0	250	250	1.0	V_{g1} (V)	-	-50	100%
g	4.0	50V. applied between cathode and all other electrodes strapped.			I_o (mA)	300	-	100%