

Specification MAP/CV1553/Issue 7 Dated 24.10.45. To be read in conjunction with K1001 ignoring clauses 5.2, 5.8.	<table border="1"> <tr> <td data-bbox="715 288 888 320"><u>SECURITY</u></td><td data-bbox="888 288 1043 320"></td></tr> <tr> <td data-bbox="715 320 888 352"><u>Specification</u></td><td data-bbox="888 320 1043 352"><u>Valve</u></td></tr> <tr> <td data-bbox="715 352 888 386">RESTRICTED</td><td data-bbox="888 352 1043 386">RESTRICTED</td></tr> </table>	<u>SECURITY</u>		<u>Specification</u>	<u>Valve</u>	RESTRICTED	RESTRICTED
<u>SECURITY</u>							
<u>Specification</u>	<u>Valve</u>						
RESTRICTED	RESTRICTED						

—→ Indicates a change

<u>TYPE OF VALVE:</u> Triode			<u>MARKING</u> See K1001/4		
<u>CATHODE:</u> Directly heated					
<u>ENVELOPE:</u> Glass - unmetallised					
<u>RATING</u>		<u>Note</u>	<u>BASE</u> None Flexible leads		
Filament Voltage	(V)	18.0	The anode and filament leads shall be brought out at opposite ends of the valve, and the grid lead, if not brought out to a side connection shall be brought out with the filament leads. The leads shall be securely bound in their insulating sleeveings to the lips of the valve and shall be 14 inches in length clear of the bindings.		
Filament Current	(A)	5.15			
Maximum Anode Voltage	(kV)	5			
Maximum Anode Dissipation	(W)	450			
Mutual Conductance	(mA/V)	1.5			
Amplification Factor		30			
Anode Impedance	( $\Omega$ )	20,000			
			<u>DIMENSIONS</u> See K1001/A1/D3		
			<u>Dimension</u>	<u>Min.</u>	<u>Max.</u>
			A (mm)	-	325
			B (mm)	-	165
			C (mm)	-	65
			D (mm)	-	30
			(if reqd.)		
			E (mm)	-	17
<u>NOTE</u> A:- $V_a = 2000$ , $V_g = 0$			<u>PACKING</u> See K1001/7.3		

To be performed in addition to those applicable in K1001

Clause	Test Conditions				Test	Limits		No. Tested
	Vf	Va	Vg	Ia(mA)		Min.	Max.	
(a)	18.0	0	0	-	If (A)	4.9	5.4	100%
(b)	18.0	Pulsed to 700V. G and A strapped		-	Peak Ic (mA)	750	-	100%
(c)	18.0	2000	0	-	Ia (mA)	47	63	100%
(d)	18.0	5000	-	90	Vg variation, during last 3 mins. (V) The variation shall have ceased within the 4 min. period.	-	±10	100%
(e)	18.0	10000	-	30	As in test (d)	-	±10	100%
(f)	18.0	2000	0	-	Ra ( $\Omega$ )	17,000	23,000	100%
(g)	18.0	2000	0	-	$\mu$	28.5	37.5	100%
(h)	<u>OSCILLATION TEST</u> The valve shall be tested for a period of 10 minutes in a suitable oscillatory circuit at a frequency of $300 \pm 15$ kc/s. With a mean anode voltage of 5000 volts, power input of 1000 watts and an anode dissipation not exceeding 350 watts, the valve shall show no signs of breakdown.							100%