

Specification MAP/CV1581/Issue 4 Dated 7.1.46. To be read in conjunction with K1001.	<table border="1"> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td>Specification</td><td>Valve</td></tr> <tr> <td>RESTRICTED</td><td>RESTRICTED</td></tr> </table>	SECURITY		Specification	Valve	RESTRICTED	RESTRICTED
SECURITY							
Specification	Valve						
RESTRICTED	RESTRICTED						

—→ Indicates a change

<u>TYPE OF VALVE:-</u> Triode - pentode or triode - hexode.			<u>MARKING</u>		
<u>CATHODE:-</u> Indirectly heated.			See K1001/4.		
<u>ENVELOPE:-</u> Glass-ummetallised.					
<u>PROTOTYPE:-</u> ECH35 (ummetallised), E1341.					
<u>RATING</u>		Note	See K1001/A11/D2		
			M dimension <u>BASE</u>		
			(ii) applies I.O.		
Heater Voltage (V)		6.3	Pin	Electrode	
Heater Current (A)		0.3	1	No connection	
			2	Heater	
			3	Hexode or pentode Anode	
			4	Screen grid (G2,4)	
			5	Oscillator Grid (G0,3)	
			6	Oscillator Anode (A0)	
			7	Heater	
			8	Cathode	
			T.C.	Signal Grid (G1)	
<u>NOTE</u>			<u>PLUG TOP CAP</u>		
A:- This specification covers valves suitable as loop switchers in a particular equipment.			See K1001/A1/D5.2		
			<u>DIMENSIONS</u>		
			See K1001/A1/D1		
			Dimension	Min.	Max.
			A (mm)	101	114
			B (mm)	-	39.6

To be performed in addition to those applicable in K1001

	Test Conditions						Test	Limits		No. Tested	Note
	Vh	Va	Vg2,4	Vg1	Vao	Vgo,3		Min.	Max.		
a	6.3	0	0	0	0	0	Ih (A)	-	0.33	100% or S	

The following tests are to be applied to valves based on Mullard ECH36

b1	6.3	300	100	-4	150	-3	Ia (mA)	1.3	3.2	100%	
c1	6.3	300	100	0	150	-3	Ia (mA)	7.0	13.0	100%	
d1	6.3	300	100	-30	150	-3	Ia (μ A)	-	90	100%	1
e1	6.3	Strapped. 30V. R.M.S. at 50cps applied			0	0	Hexode Emission Current (mA)	45	-	100%	
f1	6.3	0	0	0	Strapped. 30V. R.M.S. at 50cps applied.		Triode Emission Current (mA)	30	-	100%	
g1	6.3	300	100	0	150	-13	Ia (mA)	-	6.0	100%	
h1	6.3	300	100	Cathode resistor of 135	150	-3	Ig2,4	1.35	2.65	100%	
j1	6.3	300	100	0	150	-3	Iao (mA)	5.5	13.5	100%	
k1	6.3	300	100	0	150	13	Iao (mA)	-	1.5	100%	
m1	6.3	300	100	-3	150	-3	Reverse Ig1 (μ A)	-	0.6	100%	
n1	6.3	300	100	-3	150	-3	Reverse Igo,3 (μ A)	-	1.1	100%	

The following tests are to be applied to valves based on M.O.V. E1341

b2	6.3	250	100	-3	100	-3	Ia (mA)	2.3	4.3	100%	
c2	6.3	Peak grid swing ± 0.5 volt max.			100	-3	Pentode gm (mA/V)	0.7	-	100%	
d2	6.3	250	100	-3	Strapped 30V. D.C. applied.		Triode Emission Current (mA)	40	-	100%	
e2	6.3	250	100	-3	100	-20	Ia (mA)	-	0.6	100%	
f2	6.3	250	100	-3	100	-3	Iao (mA)	2.5	6.5	100%	
g2	6.3	250	100	-3	250	-30	Iao (mA)	-	1.0	100%	
h2	6.3	250	100	-3	100	-3	Reverse Ig1 (μ A)	-	1.0	100%	
j2	6.3	250	100	-3	100	-3	Reverse Igo,3 (μ A)	-	1.0	100%	

NOTE

1 :- A protective resistance of 1 M Ω shall be used in series with the current meter