

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV74/Issue 4. Dated 13.11.46. To be read in conjunction with K1001, ignoring clause:- 5.2.	<table> <tr> <th colspan="2">SECURITY</th></tr> <tr> <th>Specification</th><th>Valve</th></tr> <tr> <td>Restricted <i>Unclass</i></td><td>Unclassified</td></tr> </table>	SECURITY		Specification	Valve	Restricted <i>Unclass</i>	Unclassified
SECURITY							
Specification	Valve						
Restricted <i>Unclass</i>	Unclassified						

<u>TYPE OF VALVE:-</u> High Vacuum Rectifier, half-wave.			<u>MARKING</u>		
<u>CATHODE:-</u> Directly Heated, Thoriated Tungsten.			See K1001/4.		
<u>ENVELOPE:-</u> Hard Glass.			<u>BASE</u>		
<u>PROTOTYPE:-</u> (A. S. E. Type XP).			GES		
			Connections:-		
			Base thread : F		
			Base button : F		
			TC : A		
<u>RATING</u>			<u>TOP CAP</u>		
Filament Voltage	(V)	4.0			
Filament Current	(A)	11.75			
Min. Total Emission	(A)	2.5			
Max. Continuous Anode Dissipation	(W)	50			
Max. Peak Inverse Voltage	(kV)	40			
Max. Anode Voltage RMS	(V)	14,500			
Max. Rectified Current	(mA)	80			

TESTS

To be performed in addition to those applicable in K1001 and in the order given below.

	Test Conditions		Test	Limits		No. Tested
	Vf (V)	Va		Min.	Max.	
a	4.0	0	If (A)	11	12	100%
b	0	-50 kV	High voltage. Suitable circuit for test shown in Fig. 1.	No sparking or field currents exceeding 20 μ A, as indicated by the microammeter, to be observed		100%
c	4.0 Time : 5 mins.	Adjusted so that anode dissipation = 50 W. (Va about 230 V).	Vacuum.	No visible ionisation glow and no need to re-adjust Va in the last 3 mins.		100%
d	4.0	3 kV applied momentarily. See K1001/AV.	Emission (A)	2.5	-	100%

