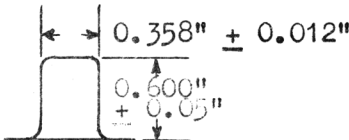


ADMIRALTY SIGNAL ESTABLISHMENT.

Specification AD/CV312/Issue 2 Dated 19.12.45. To be read in conjunction with K1001, ignoring clause:- 5.2.	<table border="1"> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td>Specification</td><td>Valve</td></tr> <tr> <td>Unclassified</td><td>Unclassified</td></tr> </table>	SECURITY		Specification	Valve	Unclassified	Unclassified
SECURITY							
Specification	Valve						
Unclassified	Unclassified						

<u>TYPE OF VALVE:-</u> High Vacuum				<u>MARKING</u>										
Rectifier, half-wave														
<u>CATHODE:-</u> Directly Heated,				See K1001/4.										
Thoriated Tungsten														
<u>ENVELOPE:-</u> Hard Glass														
<u>PROTOTYPE:-</u> VX312														
<u>RATING</u>				<u>BASE</u>										
				GES										
Vf	(V)	4.0	A	Connections :-										
If	(A)	11.75		Base thread	:	F								
Min. Total Emission	(A)	2.5		Base button	:	F								
Max. Continuous Anode Dissipation	(W)	50		TC	:	A								
Max. Peak Inverse Voltage	(kV)	65		<u>TOP CAP</u>										
														
<u>NOTES</u>				<u>DIMENSIONS</u>										
A. When dissipating 50 W. the anode shows no visible sign of heating.				See K1001/AI/D1										
B. If possible, the holder of the valve should be slightly sprung to avoid the transmission of sharp shocks to the valve. This is on account of the intrinsic brittleness of carbonised tungsten filament.				<table><tr><td>Dimension</td><td>Min.</td><td>Max.</td></tr><tr><td>A mm</td><td>-</td><td>280</td></tr><tr><td>B mm</td><td>-</td><td>60</td></tr></table>		Dimension	Min.	Max.	A mm	-	280	B mm	-	60
Dimension	Min.	Max.												
A mm	-	280												
B mm	-	60												
				<u>MOUNTING</u>										
				See Note B.										

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	-70 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%

