

ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV489 Issue 2. Dated 30.12.50. To be read in conjunction with K1001.	<table border="1"> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <td><u>Specn.</u></td><td><u>Valve</u></td></tr> <tr> <td>Unclassified</td><td>Unclassified</td></tr> </table>	<u>SECURITY</u>		<u>Specn.</u>	<u>Valve</u>	Unclassified	Unclassified
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<u>Specn.</u>	<u>Valve</u>						
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<u>TYPE OF VALVE:-</u> Xenon Thyatron, Triode Connected Tetrode.				<u>MARKING</u> See K1001/4.		
<u>CATHODE:-</u> Directly heated.				<u>BASE</u> See Drawing, page 3. Pin arrangement as for USS4. See K1001/AIV/D1. (See Note C)		
<u>ENVELOPE:-</u> Glass.						
<u>PROTOTYPE:-</u> BT75.						
<u>RATING</u>				<u>Note</u>		
Filament Voltage	(V)	2.5	A			
Filament Current	(A)	11	approx			
Peak Hold-off Anode Voltage	(V)	1000				
Peak Inverse Anode Voltage	(V)	1500				
Peak Anode Current	(A)	15				
Mean Anode Current	(A)	2.5				
Grid Bias Voltage	(V)	-10 to -25	B			
Operating Temperature	(°C)	-40 to +80				
				<u>DIMENSIONS</u> See K1001/AI/D1.		
				<u>Dimension</u>	<u>Min.</u>	<u>Max.</u>
				A (mm)	-	175
				B (mm)	-	52
				over terminals	-	77
				<u>PACKAGING</u> Carton Group "H" See K1005.		

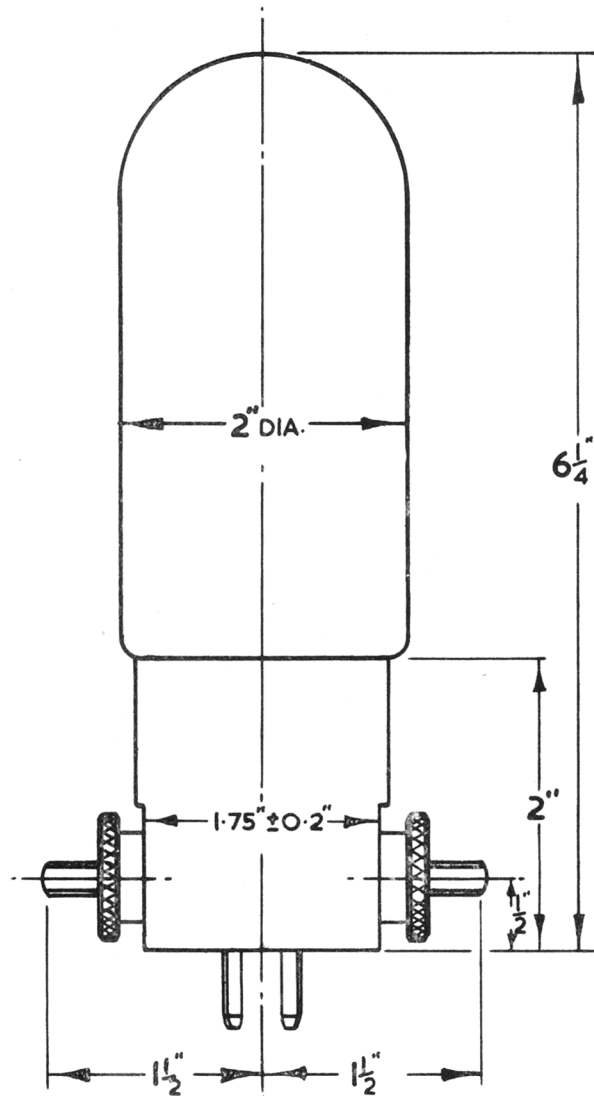
NOTES

- A. The heating time of the filament is 30 seconds approx. The cathode is connected to the centre of the filament.
- B. Applied through a resistance of 2 megohms approximately. For short pulses higher negative grid voltages are permissible.
- C. Using Valveholder Z560020 (RCSC/RCL.251 - VHUX.32).

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tested	Note
	V _f (V)	V _a (V)	V _g (V)		Min.	Max.		
a	2.5	-	-	If (A)	10	12½	100%	
b	2.5	-	0	V _a for striking (V)	20	100	100%	
	V _a increased (through 40 ohms) until discharge occurs.							
c	2.5	500	-	Negative V _g for hold-off using 2 megohm re- sistor (V)		10	100%	
d	2.5	Negative 2000	0	Inverse hold-off voltage ap- plied through a resistance of 20 kΩ There shall be no discharge.			100%	
e	2.35	-	0	V _a with I _a = 2.5 A (V)	6	12	100%	



PIN CENTRE POSITIONS

$a = 0.234"$

$b = 0.2185$

