

VALVE ELECTRONIC

CV1144

(NGT5)

ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV1144/Issue 3. Dated 17.3.52. To be read in conjunction with K1001, ignoring clauses:- 5.2, 5.8.	<table> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <td><u>Specification</u></td><td><u>Valve</u></td></tr> <tr> <td>Unclassified</td><td>Unclassified</td></tr> </table>	<u>SECURITY</u>		<u>Specification</u>	<u>Valve</u>	Unclassified	Unclassified
<u>SECURITY</u>							
<u>Specification</u>	<u>Valve</u>						
Unclassified	Unclassified						

→ indicates a change

<u>TYPE OF VALVE:-</u> Hot-cathode Mercury Vapour Grid Con- trolled Triode.				<u>MARKING</u> See K1001/4.			
<u>CATHODE:-</u> Directly Heated.				<u>BASE</u> B4 See K1001/AIV/D5.1.			
<u>ENVELOPE:-</u> Glass.							
<u>PROTOTYPE:-</u> BT19.							
<u>RATING</u>				<u>Note</u>			
Filament Voltage	(V)	2.5	A				
Filament Current	(A)	5					
Max. peak forward and in- verse Anode Voltage	(V)	1000					
Max. peak Ia	(A)	2	B				
Mean Ia (as read on DC meter)	(A)	0.5					
Max. instantaneous Ig	(A)	0.1					
Ambient temperatures for free-air cooling	(°C)	15-40					
Recommended grid series resistance	(M $\Omega$ )	0.01 to 0.1					
				<u>TOP CAP</u>			
				<u>Dimension</u>		<u>Min.</u>	<u>Max.</u>
				Diameter mm		7.97	9.525
				Length mm		10.31	11.88
						See Note C.	
				<u>DIMENSIONS</u>			
				See K1001/AI/D1.			
				<u>Dimension</u>		<u>Min.</u>	<u>Max.</u>
				A mm		145	160
				B mm		52	55
				<u>PACKING</u>			
				See K1005.			
<u>NOTES</u>							
A. Minimum heating time = 20 secs.							
B. 1.0 A at frequencies below 25 c/s.							
C. A suitable connector to the top- cap has the B.T.H. reference M1207310-1.							

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tested
	Vf (V)	Va (V)	Vg (V)		Min.	Max.	
a	2.5			If (A)	4.5	5.3	100%
b	2.5		0	Va for striking (V)	-	50	100%
	Va (through 2000 ohms) applied for 3 minutes.						
c	2.5	Adjusted	0	Va (V)	-	22.5	100%
	Va read after Ia = 0.5 A for 30 secs.						
d	2.5	500 thro' 2500 ohms		Vg (negative) for striking. (V)	5	10	100%
	Vg (negative, through 10,000 ohms) decreased until tube strikes.						
e	2.5	500 thro' 2500 ohms		Negative Vg for striking (V)	5	20	100%
	Vg (negative through 10 M ohms) decreased until tube strikes.						