

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.	<u>SECURITY</u>	
	<u>Specification</u> Unclassified	<u>Valve</u> Unclassified

→ indicates a change

<u>TYPE OF VALVE:-</u> Hot-cathode Mercury Vapour Grid Controlled Triode. <u>CATHODE:-</u> Directly Heated. <u>ENVELOPE:-</u> Glass. <u>PROTOTYPE:-</u> BT19.		<u>MARKING</u>		
		See K1001/4.		
		<u>BASE</u>		
		See K1001/AIV/D5.1.		
		Pin	Electrode	
		1	No connection	
		2	G	
		3	F	
		4	F	
		TC	A	
		<u>TOP CAP</u>		
		Dimension	Min.	Max.
		Diameter mm	7.97	9.525
		Length mm	10.31	11.88
				See Note C.
		<u>DIMENSIONS</u>		
		See K1001/AI/D1.		
		Dimension	Min.	Max.
		A mm	14.5	16.0
		B mm	5.2	5.5
		<u>PACKING</u>		
		See K1005.		
<u>RATING</u>				
		Note		
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 (MΩ)	0.01 to 0.1			
<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.						