VALVE ELECTRONIC CVII45

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV1145/Issue 2.	SECURITY			
Dated 11.11.46.	Specification	Valve		
To be read in conjunction with K1001, ignoring clauses: - 5.2, 5.8.	Restricted	Unclassified		

TYPE OF VALVE: - Mercury vap controlled triode. CATHODE: - Indirectly ENVELOPE: - Glass.	MARKING See K1001/4.			
PROTOTYPE:- BT9 Form A. RATING Heater Voltage	(V) 5•	Note O C.D.	DIMENSIONS AND CONNECTIONS See Fig. 1.	
Heater Current (approx.) Max. peak forward anode voltage Max. peak anode current Ambient temperature range	(A) 2 (kV) 1	0 0	PACKING See K1001/7.3.	

NOTES

- A. Ambient temperature is defined as the temperature measured with a thermometer with its bulb or junction placed 2-ins. from the glass bulb of the valve at the cathode end, and on a level with the cap band.
- B. Mounting. During test, the valve is to be mounted vertically with anode uppermost in an enclosure screened from draughts, with ambient temperature between 10° and 30°C.
- C. Vh is measured at valve pins.
- D. Pre-heating at Vf = 5.0 V. Before operation : 15 mins. min.

 Before tests 'a'
 and 'b' : 15 mins. min.

and 'b' : 15 mins. min. Before test 'c' : 30 mins. min.

To ensure correct distribution of mercury, pre-heating before tests shall be carried out with an asbestos cowl over the anode end of the valve. A cowl in the form of a cone, 6" high and 4" in diameter, made of four thicknesses of 2 mil. asbestos paper, is suggested.

TESTS

To be performed in addition to those applicable in K1001.

See Notes A,B,C,D.

		Test Conditions				Limits			
	Vh (∀)	Va (V)	Vg (V)	Ia (A)	Test		Min.	Max.	No. Tested
a	5.0				Ih	(A)	18	22	10%
Ъ	5.0	Ad- justed	0	12.5 DC	Va DC	(A)	•	20	10%
C	Vh = 5.0 V; Vx = 10 kV peak, 50 c/s AC; Vy = 100 V DC approx.; R = 0.2 M \Oldot to 0.4 M \Oldot; P = 10,000 \Oldot; V = valve under test. P Vx Vy j+				Min. value-Vy prior to strike of discharge	r ing		15	100%
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