

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV1148/Issue No.4. Dated 5.11.46. To be read in conjunction with K1001, ignoring clauses:- 5.2 and 5.8.	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Unclassified

<u>TYPE OF VALVE:-</u> Mercury Vapour, Grid Controlled Gas-Discharge Triode <u>CATHODE:-</u> Directly Heated. <u>ENVELOPE:-</u> Glass. <u>PROTOTYPE:-</u> E1289.	<u>MARKING</u> See K1001/4.
	<u>DIMENSIONS & CONNECTIONS.</u> See Fig. 1, page 3.

<u>RATING</u>		Note		<u>PACKAGING</u> SEE K1001
Filament Voltage	(V)	2.5	A	
Filament Current	(A)	43	A	
Max. Peak Anode Voltage	(kV)	10	B	
Max. Peak Anode Current	(A)	120	B	
Optimum Mercury Condensation Temperature	(°C)	60	B	

NOTES

- A. The heater supply may be either A.C. or D.C.
- B. These ratings are for operation with:-
- (i) Pulse repetition frequency 500/sec.
 - (ii) Pulse length of 1.5 μ sec.
 - (iii) Pulse sensibly square in shape.
 - (iv) Load resistance of 37.5 ohms.
 - (v) Approx. rate of rise of pulse from 10% max. value to 90% max. value: 300 A/ μ sec. Min. rate of rise during testing 400 A/ μ sec.
- C. The symbol "Vg" represents the striker voltage throughout.
- D. During the tests, the ambient temperature should be 10 to 20°C.

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tested
	Vf (V)	Va (kV)	Vg (V)		Min.	Max.	
a	2.5	-	-	If (A)	39	49	100%
b	2.5	-	-100	Grid Cathode Leakage Current (mA)	-	1.0	100%
c	2.5	10	-50	Operation	The pulse, both from valve and network, shall be normal. The valve shall not deteriorate.	100%	
	Operation, with conditions as in Note B, for 15 mins.						
d	As in Test 'c'			Ia (A)	120	-	100%

FIG. 1

