VALVE ELECTRONIC **CV1148** (NGT8)

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.	SECURITY	
	Specification	Valve
	Restricted	Unclassified

TYPE OF VALVE:- Mercury Vapour, Grid Controlled Gas-Discharge Triode
CATHODE:- Directly Heated.
ENVELOPE:- Glass.
PROTOTYPE:- E1289.

MARKING

See K1001/4.

DIMENSIONS & CONNECTIONS.

See Fig. 1, page 3.

RATING			Note
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 μsec.
   (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/μsec. Min. rate of rise during testing 400 A/μsec.

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%

OUTLINE DIMENSIONS

FIG. 1