VALVE ELECTRONIC **CV1145**
(NGT6)

ADMIRALTY SIGNAL ESTABLISHMENT

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

TYPE OF VALVE:- Mercury vapour filled grid-controlled gas discharge triode.
CATHODE:- Indirectly heated.
ENVELOPE:- Glass.
PROTOTYPE:- BT9 Form A.

MARKING

See K1001/4.

DIMENSIONS AND CONNECTIONS

See Fig. 1.

PACKING

See K1001/7.3.

RATING

			Note
Heater Voltage	(V)	5.0	C,D.
Heater Current (approx.)	(A)	20	
Max. peak forward anode voltage	(kV)	10	
Max. peak anode current	(A)	40	
Ambient temperature range	(°C)	10-30	A

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.

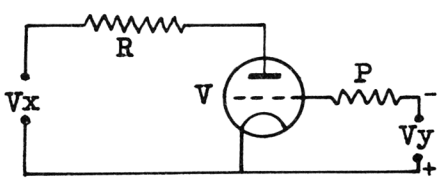
D. Pre-heating at Vf = 5.0 V. Before operation : 15 mins. min.
Before tests 'a' and 'b' : 15 mins. min.
Before test 'c' : 30 mins. min.

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				Test	Limits		No. Tested
	Vh (V)	Va (V)	Vg (V)	Ia (A)		Min.	Max.	
a	5.0				Ih (A)	18	22	10%
b	5.0	Ad-justed	0	12.5 DC	Va DC (V)	-	20	10%
c	Vh = 5.0 V; Vx = 10 kV peak, 50 c/s AC; Vy = 100 V DC approx.; R = 0.2 MΩ to 0.4 MΩ; P = 10,000 Ω; V = valve under test.  Vy reduced until discharge occurs.				Min. value of -Vy prior to striking of discharge (V)	-	15	100%

OUTLINE DIMENSIONS.

CV1145

FIG 1.