CV310

VALVE ELECTRONIC

ADMIRALTY SIGNAL & RADAR ESTABLISHMENT.

Specification AD/CV310/Issue 6 Dated 29.10.50. To be read in conjunction with K1001, ignoring clauses:- 5.2, 5.8.	SECURITY Specn. Unclassified Valve Unclassified

→ Indicates a change

TYPE OF VALVE:- 4 Electrode Neon filled Cold-Cathode Trigger Tube.
ENVELOPE:- Glass.
PROTOTYPE:- NHP1.

MARKING
See K1001/4.

BASE AND CONNECTIONS
USM4
See K1001/AIV/D.4.

RATING		Note
Min. striking voltage, anode to other electrodes (V)	500	A
Min. anode voltage at which tube will fire when ignition has been set up between G1 and G2 (V)	Not greater than 250	B
Ignition voltage G1 to G2 (G2 positive) (V)	80 - 200	C
Max. operative frequency (c/s)	30	
Max. peak discharge current (A)	250	

Pin	Electrode
1	Grid 2
2	Blank
3	Grid 1
4	Cathode
TC	Anode

TOP CAP
See K1001/AI/D5.2

DIMENSIONS
See K1001/AI/D1.

Dimension	Min.	Max.
A mm	-	145
B mm	-	35

PACKAGING
See K1005.

NOTES

A. Refers to D.C. voltage applied directly across the valve, with both grids tied to the cathode.

B. Refers to D.C. voltage applied directly across the valve, with grid control.

→ C. If very small time delay is required between application of trigger voltage and onset of main discharge a value of trigger voltage of up to 380 V may be used, provided that it is applied only as short pulses.

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tested
	Va (V)	Vg1 (V)	Vg2 (V)		Min.	Max.	
a	250	earthed	varied	Grid 2 starting voltage (V)	80	200	100%
b	500	earthed	earthed	Anode - Grid 2 breakdown	The valve shall not fire.		100%
c	Valve to be tested in the circuit of Fig.1. Switch S represents a device to enable the condenser to be connected to the valve for 2 mS.			Time delay in firing (μS)	-	50	100%

FIG. 1.