ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV308/Issue 2.	SECURITY		
Dated 8.1.46.	Specification	Valve	
To be read in conjunction with K1001		Restricted	
ignoring clauses: -5.2; 5.3; 5.8; 7.2.			

-> indicates a change

TYPE OF VALVE: - V-M Oscillator CATHODE: - Indirectly heated ENVELOPE: - Copper plated Ni-Fe/glass.			MARKING See K1001/4. Additional marking:- See Note D.		
RATING (Y)		Note	BASE Small bayonet cap with shoulder B15/25 x 18 (see		
Heater Voltage (V) Heater Current (A) Max. Anode Voltage (kV) Max. Total Cathode	4.0 1.2 1.5	A	BSS 54-1941). DIMENSIONS AND		
Current (mA) Min. Total Tuning Range (cm)	14.0 4.9 to	A,B	COMNECTIONS See Page 3.		
Reflector Voltage	10.1 -40 to				
, , , ,	450 1.0	С			

NOTES

- A. Va = Resonator Voltage. Vr = Reflector Voltage. The "anode" is regarded as the two discs nearest the base.
- B. Measured with Va = 1.5 kV, Vr = -40 to -450 V and valve in oscillating conditions.
- C. Measured at any part of the tuning range; this value will be exceeded considerably at most points in the range.
- D. The base shall be marked indelibly to indicate the cathode connection; the marking shall consist of a "C", with a small arrow indicating the cathode terminal.

CV308

TESTS

To be performed in addition to those applicable in K1001

ات	Test Conditions			Limits		No.		
	Vh (V)		Vr (V)	Test	Min.	Max.	Tested	Note
8	4.0			Ih (A)	1.0	1.25	100%	
bі	400	Strapped	1.0 kV	(i) Ia + Ir (mA)	8.5	10.0	100%	
ii	Vary Vh by + 0.5 V keeping the other conditions the same.			(ii) Change in Ia + Ir from value in (i) (mA)	•	1.0	100%	
С	4.0	Strapped	1.0 kV	Gun efficiency (Ir) (Ia + Ir)	80%	1	100%	1.
đ	4.0 1.0 Vary Vr negatively until a minimum Ia is obtained.		Reflection Ratio (Ia + Ir) (Ia)	1.4 -		100%	1-	
6	4.0	1.5	Adjust	Minimum Total tuning range for continuous oscil- lation (Mc/s)	2970 to 6130		100%	2
	*			Power Output at any point of tuning range (mW)	1.0	-	100%	
f		1.5 cimum pow		Measure Vr (V)	-380	-4 50	100%	2

NOTES

- 1. The value of Ia + Ir is the value obtained in test b i.
- 2. These tests are carried out in the approved circuit: Type III tuning mechanism.
- 3. The method of reading Ir and Ia is detailed in the following schematic.

