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VALVE ELECTRONIC CV316

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV316/Issue 2.	SECURITY	
Dated 21.2.47. To be read in conjunction with K1001,	Specn.	<u>Valve</u> Unclassified
ignoring clause: - 5.2.	Unelass	

TYPE OF VALVE: - High Vacuum Rectifier, Half-wave.			MARKING See K1001/4.		
CATHODE:- Directly Heated, Thoriat- ed Tungsten Filament.			BASE GES		
ENVELOPE:- Hard Glass. PROTOTYPE:- VX316.			Base thread : F Base button : F		
			TC	: A	ONO BEET NATED IN HELE HIS STORE OF THE SECOND AND
RATING			TOP CAP		
			See K1001/AI/D5.		
Filament Voltage (V)	4.0		Dimensions	Min.	Max.
Filament Current (A)	11.5		d mm	8.79	9.4
Min. Total Fmission (A)	2.5		Overall		
Max. Steady Anode			length mm	13.97	16.51
Dissipation (W)	45	A	DIMENSIONS		Place of the vision of the old honoredgeness &
Max. Peak Inverse Voltage (kV)	12		See K1001/AI/D1.		
Max. Mean Rectified Current			Dimensions	Min.	Max.
in a single Valve Circuit			A mm	can	250
with Choke-input Filter	200		B mm	CES-	60
(mA)			MOUNTING		
			See Note B.		Dela Salvaga duga wa ko pilikusuwa
			PACKING		
	See K1001/7.				

NOTES

- A. When dissipating 45 watts the anode shows no visible sign of heating.
 - (Manufacturing note: In order to ensure reasonably uniform anode heating and the absence of anode hot-spots when the anode is dissipating 45 watts, care must be taken to ensure that the filament system is assembled centrally inside the anode.)
- B. The filament, being carbonised tungsten, tends to be brittle, and it is therefore advisable to spring the valve-holder so as to reduce the transmission of mechanical shocks to the valve.

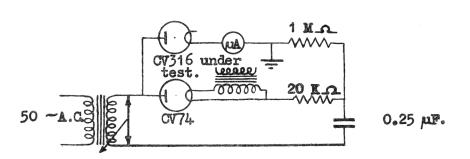
CV316/2/i.

CV3I6

TESTS

To be performed in addition to those applicable in K1001 and in the order given below.

	T	est Conditions	neur der in zeiter in neutwerzeit Annehmen der geweiter in zur Christian Gert Annehmen zeit der Steinen der Steinen der Steine der Steinen der Steine der Steinen der Steine der Steinen d	Limits		No.
	vr (v)	Va (V)	Test	Min.	Max.	Tested
a	4.0	0	If (A)	11	12	100%
ď	0	Peak inverse voltage 15 kV. Test in circuit as in Fig. 1.	Inverse Voltage Test.	There shall be no sparking or field-current exceeding 20 MA as indicated by the microammeter.		100%
C	4.0	Adjusted to give Ia = 300 mA. (Va = 175 V approx.) Time : 5 mins.	Vacuum.	There shall be no visible ionisation glow and no need to readjust Va during the last 3 minutes.		100%
đ	4.0	3 kV applied momentarily. See K1001/AV.	Emission (A)	2.5	■	100%



Output variable up to 5400 V. R.M.S.