VALVE ELECTRONIC CV2871

Specification MOSA/CV2871	SECURITY			
Issue 4, Dated 13-1-54. To be read in conjunction with K-1001	Specification	Valve		
	UNCLASSIFIED	UNCLASSIPIED		

TIPE OF VALVE - Water cooled, tr CATHODE - Directly heated ENVELOPE - Metal-glass PROTOTIPE - CAT.6, BW140		MARKING See K.1001/4. Additional markings required (See Notes B & C) Serial No. Filament Volts		
RATING Pilament Voltage	(▼)		Note	DIMENSIONS AND CONNECTIONS See drawingson pages 3.2.4
Hominal Filament Current Max. Anode Voltage Max. Anode Current Max. Continuous Anode Dissipation Total Emission at 90% Saturation Amplification Factor Anode Impedance Max. Operating Prequency at		marked 72 12 2.0 12 10 45 5000	D D	

NOTES

- A. In operation, the anode must be surrounded by a suitable jacket to contain the circulating cooling liquid, whose rate of flow should be between 3 and 4 gallous per minute. The filament seal requires to be cooled with 2 to 3 cu. ft. of air per minute.
- B. The marked voltage is defined in test clause 'g' on page 2.
- C. It is not essential that the additional marking shall appear within the frame.
- D. Measured at Va = 10, Vg = 0.

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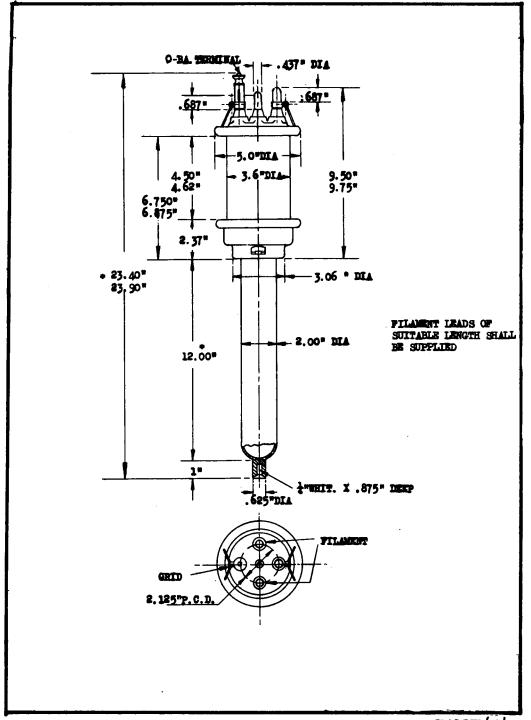
To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No.		
	Vf(V)A.C.	Va(KV)	Ia(A)	Vg(V)	1086	Kin.	Max.	Tested	Notes
	18.5	0	0	0	If (A)	68.0	75.0	100%	
ъ	18,5	13.0	1.5	Adjust	1. Record Vg			100%	1
					 Ig(μA) initially Ig(μA) after conditions have been maintained for 10 mins. 	-	200 150	100% 100%	
C	18.5	14.0	-	-	Oscillation	-	-	100%	1 & 2
a	18.5	13.0	1.5	Adjust	 Difference in value between Vg here and as recorded in test (b). Ig(μA) initially Ig(μA) after conditions have been maintained for 10 mins. 	-	175 150	100% 100% 100%	1
•	18.5	read	1.0	0	μ	40	50	100%	
		read	1.0	-100					
f	18.5	9.0	read	0	Ra (Ω)	4250	5750	100%	
		11.0	read	0					
g	Read	400 Volts applied to anode and grid strapped Vf adjusted to give emission current of 1.5A.			Recorded Vf x 1.26 (V) This is the "marked voltage"	18.1	19.7	100%	3

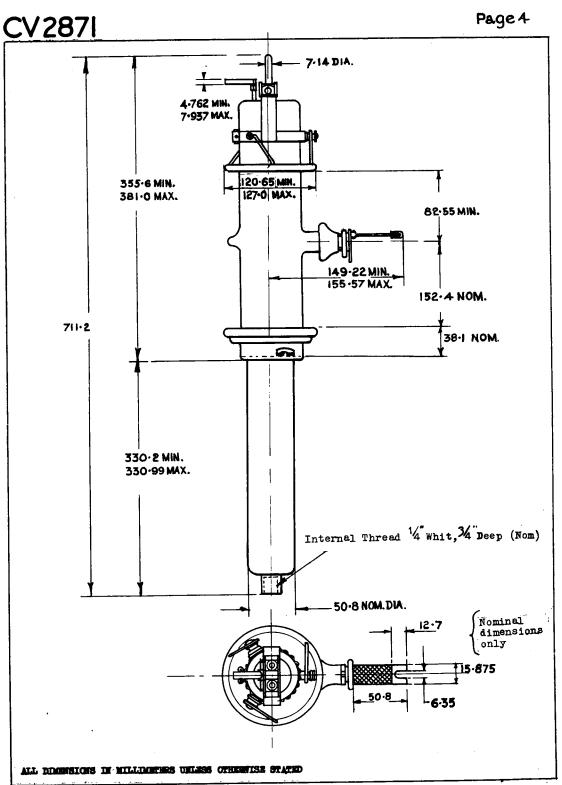
NOTES

- 1. Tests (b), (c) and (d) must be performed in the order in which they appear in the test schedule i.e. test (b) shall be followed by test (c) and test (c) shall be followed immediately by test (d).
- 2. The oscillation test shall be performed in a suitable circuit with wavelength of oscillation not greater than 450 metres. The imput power shall be approximately 17 kW., and the duration of the test shall be 20 minutes. During the test the valve shall be free of flash arcs and hot spot heating of the glass and the output shall be steady.
- 3. This "marked voltage" is the minimum value for 10 Amps emission at 90% saturation.

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