ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION MOS/CV1736 ISSUE 2 DATED 19.7.63

AMENDMENT NO.1

1. Page 1. Top of Page.

- (a) Amend "MINISTRY OF SUPPLY (S.R.D.E.)" to read "MINISTRY OF AVIATION D.L.R.D./R.A.E."
- (b) Specification Title, amend to read "MOA/CV1736"

2. Page 4 Drawing

Amend the specified dimensions as follows:-

- (a) <u>Anode Radiator Diameter</u>

 Amend '0.812" <u>+</u> .005" to read '0.813" <u>+</u> 0.005"'
- (b) Cathode and Heater Flange Diameter

 Amend '2.375" + .015" to read '2.362" + 0.005" '
- (c) Grid Ring Diameter

 Amend '2.205" + .020" to read '2.205 + 0.005"

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August, 1963 N.190322

T.V.C. for R.A.E.

VALVE ELECTRONIC CV1736

MINISTRY OF SUPPLY (S.R.D.E.)

Specification NOS/CV1736 Issue 2 Dated 19.7.55. To be read in conjunction with K10 ignoring clause: - 5.3.	SECU Specification UNCLASSIFIED	rity <u>Yelve</u> Unclassified								
TYPE OF VALVE - Disc seal triode CATHODE - Indirectly heate ENVELOPE - Copper-glass PROTOTYPE - E.1457	MARKING See K1001/4									
Heater Voltage (V) Heater Current (A) Max. D.C. Anode Voltage (V) Max. Pulse Anode Voltage (kV) Max. Anode Dissipation (W) Min. Peak Emission (A) Amplification Factor Mutual Conductance (mA/V) Efficiency (1) at 500 Mc/s with 11db gain (2) at 1000 Mc/s with 8 db gain CAPACITANCES (pF) Cag Ccg Cac	6.3 4.0 600 4.0 75 15 22 20 60% 40%	Note A B P	DIMENSIO CONNEC See drawing	TIONS						

NOTES

- A. For this dissipation at ambient temperatures up to 30°C, forced air ceoling shall be provided by not less than 5 cu.ft. of air per, min, with a pressure drop across the valve of the order of 2 inches of water.
- B. For $Va = 500V_{\bullet}$, $Ia = 100mA_{\bullet}$
- C. All limiting values are absolute

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To be performed in addition to those applicable in K1001

			Tes	t Condit	ions	Test		Limits		No.	
		٧h	Vg	Va	Ia (mA)			Min.	Max.	Tested	Notes
	8	6,3	-700	4. OKV	-	Conditions to for a period without flas	100%	1,2,3			
	b	7.8	-700	0	-	Grid current	(uA)	-	100	100%	1,2,4
>	¢	7.5	-500	0	-	Grid current	(uA)	-	100	100%	1,4
	d	7.5	Adjust	500	100	Grid current	(uA)	-	40	100%	1,5
>	е	6.3	0	0	0	Ih	(A)	3.6	4.4	100%	1
	Î.	6.3	Adjust	500	100	Vg	(V)	-7.5	-12.5	100%	1
-	g	6.3	Adjust	500	100	Reverse grid current	(uA)	-	10	100%	1,6
	h	6,3	Adjust	400	100	Vg change from value obtained in test 'f'		3. 0	5.5	100%	1
>	j	6,3	Adjust Peak gr		100 ±1V Mex.	gm. (1	na/V)	14	-	100%	1
>	k	6.3	Adjust	500	10	Vg	(Y)	-	-30	100%	1
	1	6,3	Peak ap Tp = 2u	nd grid plied vo sec.p.r. ., pulse	Peak emissien	(A)	15	•	100%	1	
	m	Measurement to be made at frequency of 1.0Mc/s				Capaci tences Cag Cog Cac	(pF)	5.0 7.0	8.0 14.0 0.5	6 per week	

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NOTES

- 1. For the above tests, forced air cooling as detailed in **MOTE** A on page 1 shall be used.
- 2. These tests form part of the processing of the valve, and having been met during manufacture, shall not be repeated for acceptance testing.
- For this hot flash test, applied voltages shall be supplied through a circuit as in Fig. 1.

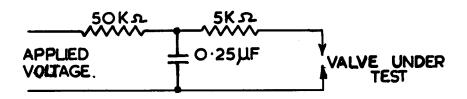
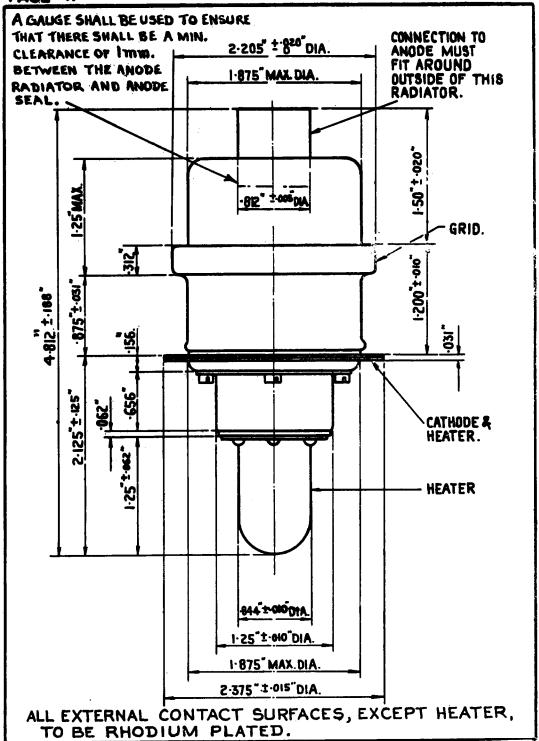


FIG. 1.

- 4. Anode and cathode to be strapped together. A grid limiting resistance of 0.5 Megohm shall be used, such that Ig does not greatly exceed 1mA under grid-cathode short circuit conditions.
- 5. This test to be performed after the valve has been run on "heaters only" for 20 mins. The grid current is to be within specification, less than 5 secs. after application of H.T.
- 6. Reverse grid current to come within limits, in less than 5 mins. after switching on.

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