MINISTRY OF SUPPLY (D.L.R.D(A)/R.A.E) VALVE ELECTRONIC **CV3798**

Specification MOSA/CV3798 Issue 2 Dated 26.11.1952 To be read in conjunction with K.1001	SECURITY Specification: UNCLASSIFIED Valve: UNCLASSIFIED

——→ Indicates a change

TYPE OF VALVE - Voltage Stabiliser

CATHODE - Cold

ENVELOPE - Glass, unmetallised

PROTOTYPE - 0A3/VR75/30

MARKING
See K.1001/4

BASE
I.0
See K1001/AIV/D2
M Dimension Civ applies

RATING			Note
Max. Striking Voltage	(V)	105	
Operating Voltage (Approx.)	(V)	75	
Min. Operating Current	(mA)	5	
Max. Operating Current	(mA)	40	

CONNECTIONS

Pin	Electrode
1	No connection
2	Cathode
3	Connected internally to pin 7
4	Pin omitted
5	Anode
6	Pin omitted
7	Connected internally to pin 3
8	No connection

DIMENSIONS
See K.1001/A1/D1

Dimensions	Min.	Max.
A mm	96	105
B mm	-	40

To be performed in addition to those applicable in K.1001

	Test Conditions		Test	Limits		No. Tested	Note
				Min.	Max.		
	Va(V)	Ia (mA)					
a	Increased from zero until Ia flows.	-	Striking Voltage(V)	-	105	100%	1 & 2
b	Adjusted	40	Va (V)	-	81	100%	2
c	Adjusted	30	Va (V)	-	79	100%	2
d	Adjusted	5	Va (V)	70	-	100%	2
e	50	-	Leakage Current(μA)	-	10.0	1%(5)	2
f	Impedance						
→	(i) Difference between value of Va in test "b" and value in test "d".		(V)	-	6·5	100%	
→	(ii) Difference between value of Va in test "c" and value in test "d".		(V)	-	4·5	1%(5)	
g	Noise Test						
	The valve is to be tested for freedom from oscillation and noise during operation. For this purpose a calibrated amplifier detector having a level response within ± 2db. of its response at 400 c.p.s. over the range of 50-5000 c.p.s. is to be connected between the Anode and Cathode. The cathode current is to be varied slowly from 5mA to 40mA and at no point in this range must the R.M.S. noise input voltage to the amplifier exceed 5mV. For the purpose of the test the valve shall be operated from a well filtered variable D.C. supply					100%	

NOTES

1. This test is to be performed 24 hours after the valve is sealed off.
2. With a minimum resistance of 1K ohms in series with the anode.