

Specification MAP/CV.686 Issue 2 Dated 16.1.52 To be read in conjunction with K.1001	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

—> Indicates a change

TYPE OF VALVE - Voltage Stabiliser CATHODE - Cold ENVELOPE - Glass, unmetallised PROTOTYPE - OC3/VR105/30		<u>MARKING</u> See K.1001/4	
		<u>BASE</u> I.O. See K.1001/ATV/D2	
<u>RATINGS</u>		<u>CONNECTIONS</u>	
	<u>Note</u>	<u>Pin</u>	<u>Electrode</u>
Max. Striking Voltage (V)	127	1	No connection
Operating Voltage (approx) (V)	105	2	Cathode
Min. Operating Current (mA)	5	3	Connected internally to pin 7
Max. Operating Current (mA)	40	4	Pin omitted
		5	Anode
		6	Pin omitted
		7	Connected internally to pin 3
		8	No connection
		<u>DIMENSIONS</u> See K.1001/A1/D1	
		<u>Dimension</u>	<u>Min.</u> <u>Max.</u>
		A	96 105
		B	- 40

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

	Test Conditions		Test	Limits		No. Tested	Note
				Min.	Max.		
a	Va(V) Increased from zero until Ia flows	Ia(mA) -	Striking Voltage (V)	-	127	100%	1 & 2
b	Adjusted	40	Va (V)	-	112	100%	2
c	Adjusted	30	Va (V)	-	111	1% (5)	2
d	Adjusted	5	Va (V)	105	-	100%	2
e	50	-	Leakage Current (μ A)	-	10.0	1% (5)	2
f	<u>Impedance</u>						
	(i) Difference between value of Va in test "b" and value in test "d" (V)			-	4.0	100%	
	(ii) Difference between value of Va in test "c" and value in test "d" (V)			-	2.0	1% (5)	
g	<u>Noise Test</u>						
	<p>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 ± 2 db. 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 5 mA. to 40 mA. and at no point in this range must the R.M.S. noise input voltage to the amplifier exceed 10 mV. For the purpose of the test the valve shall be operated from a well filtered variable D.C. supply.</p> <p style="text-align: right;">100%</p>						
<u>NOTES</u>							
1. This test is to be performed at 24 hours after the valve is sealed off.							
2. With a minimum resistance of 1K ohms in series with the anode.							