

MINISTRY OF SUPPLY D.L.R.D./R.A.E.

Specification MOSA/CV.5083 Issue 1 Dated 13.5.57. To be read in conjunction with K.1001. Ignoring clause 5.2.	<table border="1"> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td>Specification</td><td>Valve</td></tr> <tr> <td>UNCLASSIFIED</td><td>UNCLASSIFIED</td></tr> </table>	SECURITY		Specification	Valve	UNCLASSIFIED	UNCLASSIFIED
SECURITY							
Specification	Valve						
UNCLASSIFIED	UNCLASSIFIED						

TYPE OF VALVE - Miniature Gas-Filled Voltage Stabiliser				<u>MARKING</u> See K.1001/4	
CATHODE - Cold					
ENVELOPE - Glass - unmetallised					
<u>RATINGS</u>				<u>BASE</u> B.7.G.	
				<u>CONNECTIONS</u>	
				Pin Electrode	
Max. Striking Voltage (V) 110				1 Cathode	
Max. Anode Current (mA) 22				2 Cathode	
Min. Anode Current (mA) 2				3 Cathode	
Mean Voltage Drop across valve operating at 10 mA. 70				4 Priming Anode or Anode (Note A)	
				5 Anode	
				6 Anode	
				7 Anode	
				<u>DIMENSIONS</u> See K.1001/AI/D4.	
				Dimensions Min. Max.	
				A mm - 54.5	
				B mm - 19.0	
				L mm - 47.5	
				F mm 35.5 40.5	
<u>NOTE</u>					
A. This valve may be supplied either with or without a priming anode. In order to accommodate either construction, it is essential that a resistor of 15,000 ohms be connected between pins 4 and Anode at the valve socket in equipments.					

TESTS

Page 2

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

	Test Conditions	Test	Limits		No. Tested	Note
			Min.	Max.		
a	Increase the voltage applied to the valve until current flows.	Striking Voltage (V)	-	110	100%	
b	Cathode Current adjusted to 10 mA.	Output Voltage (V)	65	75	100%	
c	Cathode current changed from 20 mA to 2 mA.	Output Voltage Change (V)	-	6	100%	
d	The valve is to be tested for freedom from noise during operation. For this purpose, a calibrated amplifier-detector, having a response to 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 20 mA to 2 mA and at no point in this range must the R.M.S. noise input voltage to the amplifier exceed 15 mV.				100%	

NOTE

1. If the valve under test incorporated a priming anode, then for the purpose of the above tests the priming anode must be connected to the anode through a resistor of 15,000 ohms.