

Specification MOS(A)/CV1832 Issue 1 Dated 25.11.53 To be read in conjunction with K1001	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

TYPE OF VALVE - Voltage Regulator, Receiving CATHODE - Cold ENVELOPE - Glass - Unmetallised PROTOTYPE - OA2 RTMA DESIGNATION - OA2	<u>MARKING</u> See K1001/4 Additional Marking - OA2 (See Note A)
	<u>BASE</u> B7C

<u>RATING</u>			<u>CONNECTIONS</u>		
		Note	Pin	Electrode	
Min. Striking Voltage	(V)	185	1	Anode	
Approx. Operating Voltage	(V)	150	2	Cathode	
Min. Operating Current	(mA)	5	3	Internally connected	
Max. Operating Current	(mA)	30	4	Cathode	
			5	Anode	
			6	Internally connected	
			7	Cathode	
			<u>DIMENSIONS</u>		
			See K1001/A1/D4		
			Dimension (mm)	Min.	Max.
			A	60.3	66.7
			E	-	19
			<u>MOUNTING POSITION</u>		
			Any		

NOTES

A. In addition to the requirements of K1001/4, the RTMA designation shall also be clearly and indelibly marked on the valve.

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To be performed in addition to those applicable in K1001

Test Conditions			Test	Limits		No. Tested	Note
		Min.		Max.			
a	Va (V) Increased from zero until the current flows.	Ia (mA) -	Striking Voltage (V)	-	180	100%	1, 2 & 3
b	As for Test (a)	-	Striking Voltage (V)	-	225	100%	2 & 4
c	Adjust	5	Va (V)	142	-	100%	2
d	Adjust	30	Va (V)	-	165	100%	2
e	Adjust	Changed from 5-30 mA	Regulation (V)	-	6	100%	
f	50	-	Leakage current (μA)	-	20	100%	2
g	The valve shall be tested for freedom from oscillation and noise during operation. For this purpose a calibrated amplifier detector having a level response within $\pm 2$ db of its response at 400 cps over the frequency range 50-5000 cps, shall be connected between anode and cathode. The cathode current shall be varied steadily, slowly within the range 30-5 mA, and at no point shall the RMS noise input voltage to the amplifier exceed 5 mV AC. In performing the test, the valve shall be operated from a well-filtered variable DC supply.		Noise	-	-	100%	
<u>NOTES</u>							
1. This test shall be performed at least 24 hours after the valve has been sealed.							
2. Minimum anode load resistance = 1000 ohms.							
3. The test shall be conducted with the valve exposed to a light intensity of 5-50 ft.candles.							
4. The test shall be conducted in total darkness after the valves have been held in darkness for 24 hours.							

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