

Specification MOS(A)/CV1833 Issue 1 Dated 3.3.54. 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 - OB2 RTMA DESIGNATION - OB2	<u>MARKING</u>		
	See K1001/4 Additional marking - OB2 (See Note A)		
	<u>BASE</u> B7G		
<u>RATING</u>	<u>CONNECTIONS</u>		
	Note	Pin	Electrode
Min. Starting Voltage (v)	133	1	Anode
Approx. Operating Voltage (v)	108	2	Cathode
Min. Operating Current (mA)	5	3	Internally connected
Max. Operating Current (mA)	30	4	Cathode
Max. Altitude for Effective Operation (ft)	10000	5	Anode
		6	Internally connected
		7	Cathode
		<u>DIMENSIONS</u>	
		See K1001/A1/D4	
		Dimension (mm)	Min. Max.
		A	60.3 66.7
		B	- 19.0
		<u>MOUNTING POSITION</u>	
		Any	

NOTE

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

To be performed in addition to those applicable in K1001

Test Conditions			Test	Limits		No. Tested	Note
Va (V)	Ia (mA)	Min.		Max.			
a	Increased from zero until the current flows.	-	Ionisation Voltage (V)	-	127	100%	1, 2 & 3
b	As for Test (a)	-	Ionisation Voltage (V)	-	210	TA	2 & 4
c	Adjust	5	Va (V)	105	-	100%	2
d	Adjust	30	Va (V)	-	112	100%	2
e	Adjust	Changed from 5-30 mA	Regulation (V)	-	3.5	100%	
f	50	-	Leakage Current (μ A)	-	20	100% or S	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 ± 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 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%	

NOTES

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.