

**WARNING THESE VALVES CONTAIN RADIO-ACTIVE MATERIAL**

Page 1 (No. of Pages - 3)

MINISTRY OF SUPPLY - DLRD(A)/RRE

VALVE ELECTRONIC

**CV 2248-52**

Specification MOS(A)/CV2248-52 Issue 3 Dated 13. 12. 54 To be read in conjunction with K1001	<u>SECURITY</u>	
	<u>Specification</u>	<u>Valve</u>
	UNCLASSIFIED	UNCLASSIFIED

—————> Indicates a change

TYPE OF VALVE - Hydrogen-filled Protective Spark Gap CATHODE - Gold ENVELOPE - Glass PROTOTYPE - VX9054	<u>MARKING</u>	
	See K1001/4 and also Note D	
	<u>BASE</u>	
	None See Drawing on Page 3.	
<u>RATING</u>	<u>CONNECTIONS AND DIMENSIONS</u>	
	See Drawing on Page 3.	
	<u>MOUNTING POSITION</u>	
	Any	

	Note	
Max. Mean Current (mA)	2	A
Max. Peak Current (A)	50	A,B
<u>Mean Breakdown Voltage (V)</u>		
CV2248	1000	
CV2249	1250	
CV2250	1500	
CV2251	1750	
CV2252	2000	

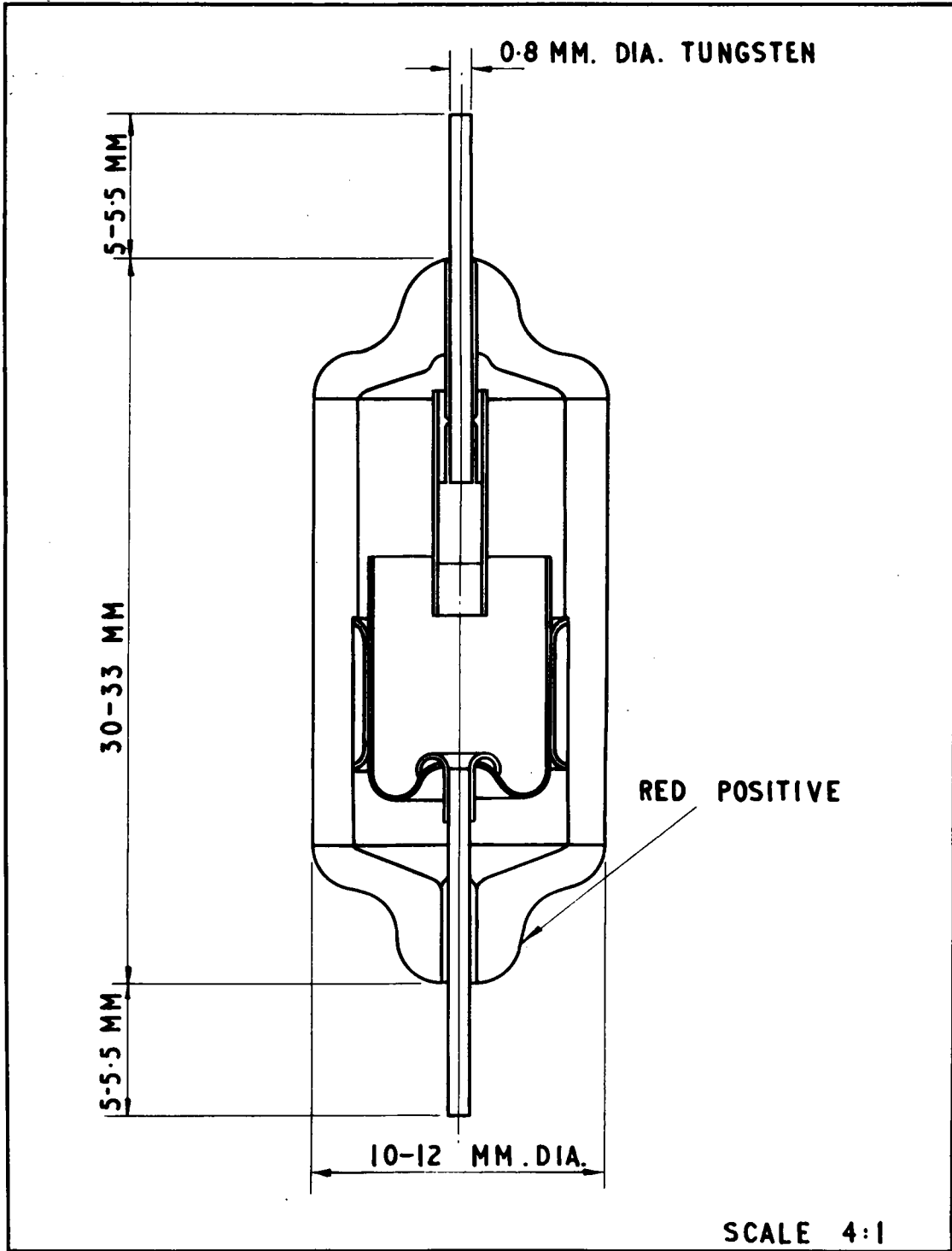
NOTES

- A. Absolute maximum value
- B. Current pulse to be of approx sine waveform having 40  $\mu$ sec duration at half amplitude.
- C. The maximum repetition rate shall be adjusted such that over a period of 5 secs. the sum of the products (peak current X pulse width) does not exceed  $10^4$  micro-coulombs.
- D. In particular, the requirements of K1001/4.4 shall also apply to the valve and its packaging.

For handling and disposal instructions, see Memorandum in K1001 - Radioactive Valves - Handling and Disposal - dated September, 1953.

To be performed in addition to those applicable in K1001

Test Conditions - unless otherwise specified								
Notes 1 and 2								
Test	Test Conditions	AQL %	Insp. Level	Sym- bol	Limits		Units	
					Min.	Max.		
a	<u>Breakdown Voltage</u> CV2248 CV2249 CV2250 CV2251 CV2252	Voltage increased slowly until discharge occurs.		100%				
						870	1130	V
						1120	1380	V
						1370	1630	V
						1620	1880	V
						1870	2130	V
b	Life	Rate of discharge Note 3	10.0	IB		5000	-	dis- charges
<u>NOTES</u>								
1. Test to be performed after 7 days shelf life.								
2. Test to be performed using a current pulse of approximately sine waveform having 20 $\mu$ secs duration at half amplitude and 25A peak.								
3. The maximum repetition rate shall be adjusted such that over any period of 5 secs., the sum of the products (peak current X pulse width) does not exceed $10^4$ micro-coulombs.								



SCALE 4:1

CV 2248-52/3/3