,	Specification MAP/CV46/Issue 4. Dated 14.1.49	SECU	RITY	
	To be read in conjunction with K1001, ignoring clauses:- 5.2, 5.8, 7.2.	Specification RESTRICTED	<u>Valve</u> UNCLASSIFIED	*

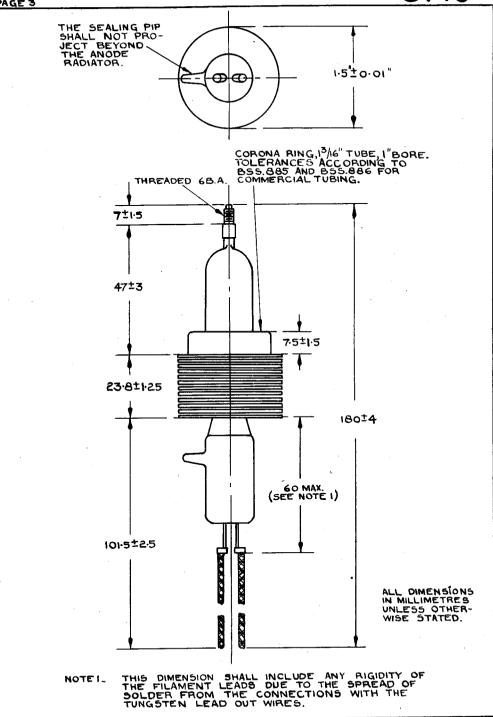
— <b>→</b> Indi	cates a	change			
TYPE OF VALVE - Triode  CATHODE - Directly heated thoriated tungsten	- Directly heated		MARKING See K1001/4		
ENVELOPE - Metal - glass construction.	PACKING  - Metal - glass  See K1005				
			<u>BASE</u> None		
RATING			<u>DIMENSIONS</u>		
		Note	See Page 3.		
Filament Voltage (V) Filament Current (A) Maximum Anode Voltage (kV) Maximum Anode Dissipation (W) Amplification factor Anode Impedance (Ω) Max. Operation Frequency (Mc/s)	8.25 7.0 2.0 150 15.5 5000 100	I .			
CAPACITANCES  Anode to grid (pF) Grid to filament (pF) Anode to filament (pF)	3•75 2•2 0•9				

## NOTES

- A: At  $V_a = 1.0 \text{ kV}$ ,  $I_a = 100 \text{mA}$
- B: Forced air cooling must be provided so that the temperature of the anode radiator does not exceed 140°C measured at the junction of the anode and the cooling fins. A suitable air flow is approximately 15 cu.ft. per minute with a pressure drop across the valve of the order of 1½ inches of water. Forced air cooling must be applied before the filament is switched on.
- C: The valve must be mounted vertically.
- D: The attention of equipment designers is drawn to the fragility of the valve seals, and consequently special care should be exercised in the mechanical design of associated circuits.

**CV46** 

	To be performed in addition to  Test Conditions				Test		Limits		No.
	100 00000000000000000000000000000000000			Min.			Max.	Tested	
	the to measur able	emperat red at air flo	ure of t the junc v is app	he anode retion of the rox. 15 cu.	air cooling shall not anode and the coft. per minute wifing $1\frac{1}{2}$ inches of w	excee ooling ith a	d 140°C. fins.	A suit-	
a	V£	Va.	Vg	Ia(mA)					
	8. 25 A. C.	0	0	-	If	(A)	6.4	7.6	100%
b	8. 25 A. C.	1500	-	100	Reverse Ig	(μ <b>A</b> )	-	10	100%
	Maintained for 5 minutes.			The last 3 one minute readings to be steady.					
c	8. 25 A. C.	1000	-	100	-Vgl	(₹)	19	29	100%
đ.	8. 25 A. C.	700	-	100	Vg change from value obtained in test (c)	(∀)	14	22	1% (1)
e	8.25 A.C.	Strapped. Peak - applied voltage 1500v. Test to be performed by an approved method.			Ie	(A)	5	-	100%
f	8. 25 A. C.	•	-104	4	Va	(v)	1325	1700	100%
ŧ.	To be measured using Adaptor Type 100. Ref. 10A/17529. See K1001/AIII						,		
	Links H.P.		nks to	Links to E	CAPACITANCES				
g	2		3	1,4,5,6, 7,8,9,10 TC1, TC2	Cag	(pF)	3.0	4.5	6 per
	3		1	2,4,5,6, 7,8,9,10 TC1, TC2	Cgf	(pF)	1.5	2.9	week



CV46/3/iii.