

Specification MAP/CV1036/Issue 9 Dated 19.1.49. To be read in conjunction with K1001	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> UNCLASSIFIED


→ Indicates a change

<u>TYPE OF VALVE</u> - Triode			<u>MARKING</u> See K1001/4 Plus additional marking (See Note 1 and 2).		
<u>CATHODE</u> - Directly Heated			<u>PACKING</u> See K1005 and Note 3.		
<u>ENVELOPE</u> - Glass - Unmetallised					
<u>PROTOTYPE</u> - 220PA			<u>BASE</u> B4		
<u>RATING</u>		Note	Pin	Electrode	
Filament Voltage (V)	2.0		1	Anode	
Filament Current (A)	0.2	A	2	Grid	
Max. Anode Voltage (V)	150		3	Filament negative	
Mutual Conductance (mA/V)	4.0		4	Filament positive	
Amplification Factor	16		A		
Anode Impedance (Ω)	4,000	A	<u>DIMENSIONS</u> See K1001/AI/D1		
Average Anode Current (mA)	10	B	Dimension	Min.	Max.
Optimum Load (Ω)	9,000		A	(mm)	-
<u>NOTE</u> A $V_a = 100V; V_{g1} = 0$ B $V_a = 150V; V_{g1} = -4.5V$			B	(mm)	-
			C	(mm)	-
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ADDITIONAL MARKING

1. The following shall appear on the bulb (preferably on the top) :-

" FOR
W 

SERIAL NO.
 "

The letter "W" shall be a 1/4" character and the other letters in 1/8" characters. The rectangles shall be of the following dimensions :-

top rectangle - 1/2" x 1/4"
 bottom rectangle - 5/8" x 1/4"

and shall be finished "frosted" (or other suitable process) to enable the wavemeter contractor to print in indelible ink the serial number of the wavemeter with which the valve will be used.

2. The valves shall be numbered, on the base or bulb, in sets of three matched as in test c, each valve of a set bearing the same number which shall appear immediately in front of the factory identification code letter. Numbers shall be used progressively and shall be repeated after the 999th set.

3. Packing. The packing shall be labelled thus :-

One Set of
 Three selected matched
 Valves Type CV1036
 A.M. Ref. No. 100V/1036
 for use in Wavemeters.

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tested
					Min.	Max.	
* a	Measured with Adaptor Type 35 Ref.10A/13331. See K1001/AIII			<u>CAPACITANCE (pF)</u> Cg - all	10.0	12.0	100%
	Links to H.P.	Links to L.P.	Links to E.				
	2	1,3,4	5,6,7, 8,9,10, TC1, TC2.				
* b	Vf	Va	Vg	If (A)	0.16	0.24	100% or S
	1.8	0	0				
* c	1.8	150	-7 to -5	gm (mA/V)	1.8	3.0	100% or S
* d	1.8	150	-6	μ	14	20	100% or S
* e	1.8	150	-6	Ia (mA)	3.5	7.0	100%
* f	1.8	150	-6	Reverse Ig (μ A)	-	1.0	100%
* g	1.8	60	-4.5	Ia (mA)	-	0.1	100%
* h	<u>MATCHING</u> The valves shall be matched in sets of three, having the same capacitance to within 0.1 pF of each other.						
<u>NOTE</u> * Indicates change of clause lettering.							