

Specification MAP/CV1036/Issue 9 Dated 19.1.49. To be read in conjunction with K1001	<table> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <td><u>Specification</u> RESTRICTED</td><td><u>Valve</u> UNCLASSIFIED</td></tr> </table>	<u>SECURITY</u>		<u>Specification</u> RESTRICTED	<u>Valve</u> UNCLASSIFIED
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<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>ENVELOPE</u> - Glass - Unmetallised							
<u>PROTOTYPE</u> - 220PA				<u>PACKING</u> See K1005 and Note 3.			
<u>RATING</u>				<u>BASE</u> B4			
			Note				
Filament Voltage	(V)	2.0		Pin	Electrode		
Filament Current	(A)	0.2		1	Anode		
Max. Anode Voltage	(V)	150		2	Grid		
Mutual Conductance	(mA/V)	4.0	A	3	Filament negative		
Amplification Factor		16	A	4	Filament positive		
Anode Impedance	(Ω)	4,000	A				
Average Anode Current	(mA)	10	B	<u>DIMENSIONS</u>			
Optimum Load	(Ω)	9,000		See K1001/AI/D1			
<u>NOTE</u>				Dimension		Min.	Max.
A	$V_a = 100V$ ;	$V_{g1} = 0$		A	(mm)	-	109
B	$V_a = 150V$ ;	$V_{g1} = -4.5 V$		B	(mm)	-	45
				C	(mm)	-	36

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 wave-meter 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.	
■	Measured with Adaptor Type 35 Ref.10A/13331. See K1001/AIII			<u>CAPACITANCE (pF)</u>  Cg - all	10.0	12.0	100%
	a	Links to H.P.	Links to L.P.				
		2	1,3,4 5,6,7, 8,9,10, TC1, TC2.				
■	b	Vf	Va	If (A)	0.16	0.24	100% or S
		1.8	0				
■	c	1.8	150	gm (mA/V)	1.8	3.0	100% or S
■	d	1.8	150	$\mu$	14	20	100% or S
■	e	1.8	150	Ia (mA)	3.5	7.0	100%
■	f	1.8	150	Reverse Ig ( $\mu$ A)	-	1.0	100%
■	g	1.8	60	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.							
<p style="text-align: center;"><u>NOTE</u></p> <p>■ Indicates change of clause lettering.</p>							