

VALVE ELECTRONIC **CV 1601**GENERAL POST OFFICE: E-IN-C (W)

(FOVT 27)

Specification: <b>G.P.O./CV 1601/Issue 1</b> Dated: <b>12-12-46</b> To be read in conjunction with K 1001	<table border="1"> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <td><u>Specification</u></td><td><u>Valve</u></td></tr> <tr> <td><b>Restricted</b></td><td><b>Restricted</b></td></tr> </table>	<u>SECURITY</u>		<u>Specification</u>	<u>Valve</u>	<b>Restricted</b>	<b>Restricted</b>
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<u>Specification</u>	<u>Valve</u>						
<b>Restricted</b>	<b>Restricted</b>						

—————&gt; indicates a change

<u>TYPE OF VALVE:</u> Vacuum half-wave rectifier, water-cooled			<u>MARKING</u> See K 1001/4 Additional markings required (See notes A,B,C) Serial No..... Filament Volts.....	
<u>CATHODE:</u> Directly heated tungsten filament				
<u>ENVELOPE:</u> Metal-glass				
<u>PROTOTYPE</u> CAR1; 4008B				
<u>RATING</u>			Note	<u>BASE</u>  None
Filament voltage	(V)	AS MARKED	B	
Nominal filament current	(A)	55.0		<u>CONNECTIONS</u>  See drawing on page 3
Max. peak inverse voltage	(kV)	37.5		
Max. D.C. output voltage	(kV)	12.5		<u>DIMENSIONS</u>  See drawing on page 3
Max. rectified output current	(A)	2.0		
Max. anode dissipation	(kW)	10.0		<u>PACKING</u>  See K 1001/7.3
Min. rate of water flow	(gals/min)	2.0		

NOTES

- A. The serial numbers will be allotted by the Inspecting Officer.  
 B. The Marked Voltage is defined on page 2, test (a).  
 C. It is not essential that the additional markings shall appear within the frame.

TESTS

To be performed in addition to those applicable in K 1001

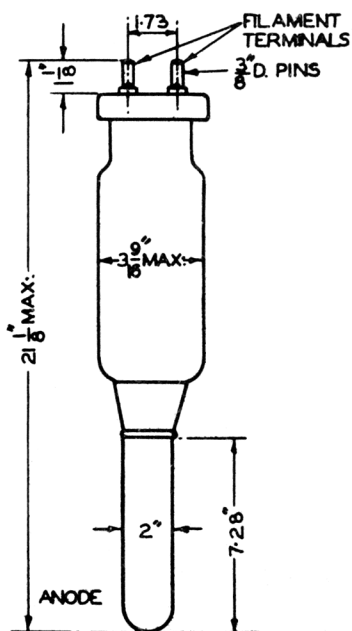
	TEST CONDITIONS		TEST	LIMITS		No. Tested	Note
	Vf (V)	Va (DC)		Min.	Max.		
(a)	Read	-	Vf. Minimum required for peak emission of 6 amps. To be known "Marked Voltage" (V)	18.0	20.0	100%	1
(b)	MV	-	If (A)	50.0	61.0	100%	
(c)	MV	15 kV	D.C. output per valve (A)	2.0	-	100%	2

NOTES

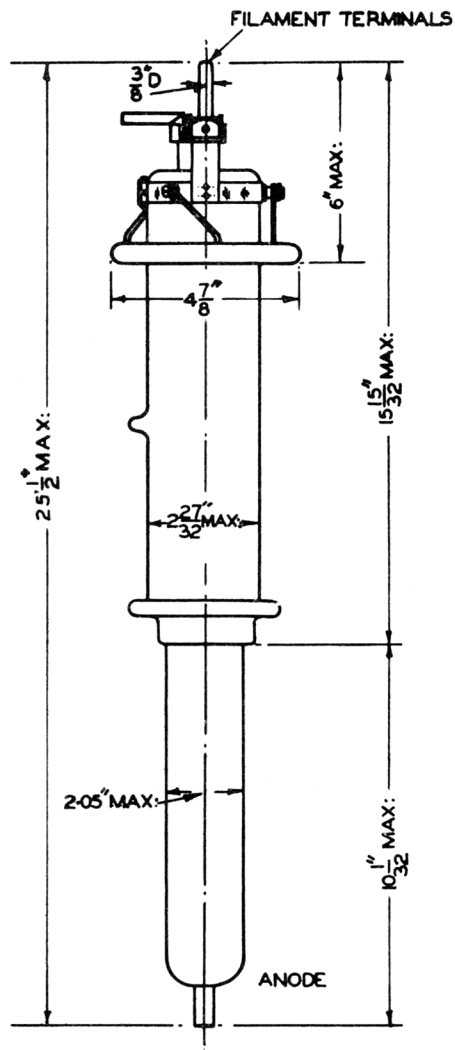
- (a) The voltage applied to the anode shall be sufficient to draw from the filament a peak emission of 6 amps.  
The test shall be made in accordance with K 1001/A V

(b) Alternatively, the voltage applied to the anode shall be sufficient to draw from the filament a peak emission of 1 amp, and the filament voltage required for this emission shall be multiplied by 1.27 to determine the test result.
- This test shall be conducted in a bi-phase half-wave circuit, and its duration shall be 30 minutes.  
No sparking or flash-over shall occur.

## OUTLINE DRAWING



PROTOTYPE 4008B



PROTOTYPE CAR 1