

VALVE ELECTRONIC **CV 1608**GENERAL POST OFFICE: E-IN-C ( W )

(POVT 17)

Specification: <b>G.P.O./CV 1608/Issue 1</b> Dated: <b>23-9-46</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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<b>Restricted</b>	<b>Restricted</b>						

-----&gt; indicates a change

<u>TYPE OF VALVE:</u> Vacuum half-wave rectifier <u>CATHODE:</u> Directly heated tungsten filament <u>ENVELOPE:</u> Silica (tungsten seals) <u>PROTOTYPE</u> -----			<u>MARKING</u> See K 1001/4 Additional marking required (See notes A & B) Serial No. ....																		
<table border="1"> <thead> <tr> <th colspan="2"><u>R A T I N G</u></th> <th></th> </tr> </thead> <tbody> <tr> <td>Filament current</td> <td>(A)</td> <td>40.0</td> </tr> <tr> <td>Nominal filament voltage</td> <td>(V)</td> <td>18.0</td> </tr> <tr> <td>Max. peak inverse voltage</td> <td>(kV)</td> <td>30.0</td> </tr> <tr> <td>Max. D.C. output voltage</td> <td>(kV)</td> <td>10.0</td> </tr> <tr> <td>Max. rectified output current</td> <td>(A)</td> <td>0.33</td> </tr> </tbody> </table>	<u>R A T I N G</u>			Filament current	(A)	40.0	Nominal filament voltage	(V)	18.0	Max. peak inverse voltage	(kV)	30.0	Max. D.C. output voltage	(kV)	10.0	Max. rectified output current	(A)	0.33	<u>Note</u>	<u>B A S E</u> None (flexible leads) <u>CONNECTIONS</u> The anode lead shall be brought out at one end of the valve and the filament leads at the other end. The length of leads shall be at least 12 inches.	
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<u>NOTE</u> A. The Serial Numbers will be allotted by the Inspecting Officer. B. It is not essential that the additional marking shall appear within the frame.			<u>DIMENSIONS</u> Max. overall length excluding leads. 550 mm Max. diameter 120 mm																		

T E S T S

To be performed in addition to those applicable in K 1001

	TEST CONDITIONS		TEST	LIMITS		No. Tested	Note
	If (A)	Va (DC)		Min.	Max.		
(a)	40	-	Vf (V)	17.0	19.0	100%	
(b)	40	12.5 kW	D.C. output per valve (mA)	300	-	100%	1

N O T E

1. 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.