

VALVE ELECTRONIC **CV 1639**GENERAL POST OFFICE: E-IN-C (S)

(FOVT 31 B)

Specification: G.P.O./CV 1639/Issue 2 Dated: 15 - 1 - 47 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>Restricted</td><td>Restricted</td></tr> </table>	<u>SECURITY</u>		<u>Specification</u>	<u>Valve</u>	Restricted	Restricted
<u>SECURITY</u>							
<u>Specification</u>	<u>Valve</u>						
Restricted	Restricted						

---> indicates a change

<u>TYPE OF VALVE:</u> Triode				<u>MARKING</u>			
<u>CATHODE:</u> Directly heated							
<u>ENVELOPE:</u> Unmetallised glass				See K 1001/4			
<u>PROTOTYPE</u> 4101 E							
<u>RATING</u>			<u>Note</u>		<u>BASE</u> Bayonet cap 4-pin (BC4) See drawing on page 3 and Note B.		
Filament current	(A)	1.0	A	A	<u>CONNECTIONS</u>		
Nominal filament voltage	(V)	4.5			Pin	Electrode	
Max. anode voltage	(V)	190			1	Grid	
Anode impedance	(ohms)	6000			2	Filament -	
Amplification factor		6.0			3	Filament +	
					4	Anode	
					<u>DIMENSIONS</u> See K 1001/A1/D1		
					Dimension	Min.	Max.
					A (mm)	-	125
					B (mm)	-	60
<u>NOTE</u>							
A. Measured with $V_a = 130$, and $V_g = -9$							
B. The axis of the bayonet locating pin shall lie within 25° of the plane of the filament.							

TESTS

To be performed in addition to those applicable in K 1001

	TEST CONDITIONS			TEST	LIMITS		No. Tested	Note
					Min.	Max.		
(a)	Test Voltage 500 Volts D.C.			<u>INSULATION (megohms)</u> Between any two electrodes	500	-	1%	
	If (A)	Va	Vg					
(b)	1.0	-	-	Vf (V)	4.0	5.0	100%	
(c)	1.0	130	-9	Reverse Ig (μ A)	-	0.5	100%	
(d)	1.0	130	-9	Ra "x" (ohms)	5000	7000	100%	
(e)	0.9	130	-9	Ra "y" (ohms)	-	1.2 "x"	100%	1
(f)	1.0	130	-9	μ	5.0	7.0	100%	
(g)	1.0	0	0	Filament/hook adhesion	-	-	100%	2

NOTES

1. Re-adjust If with $V_a = V_g = 0$
2. Visual inspection shall show that the filament is cooled in the vicinity of the tension hooks.

OUTLINE DRAWING

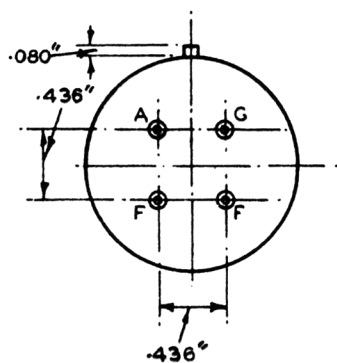
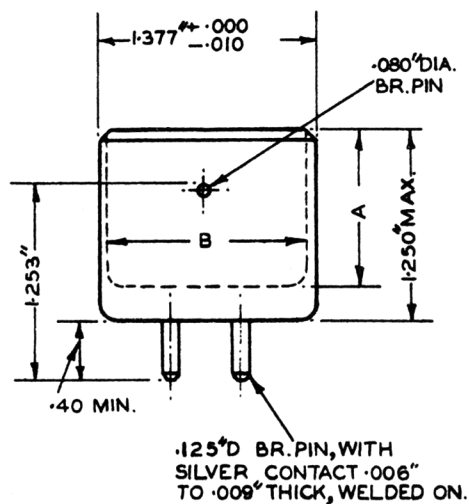
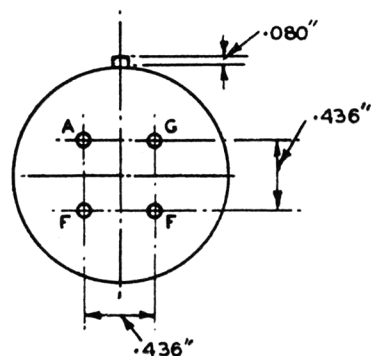
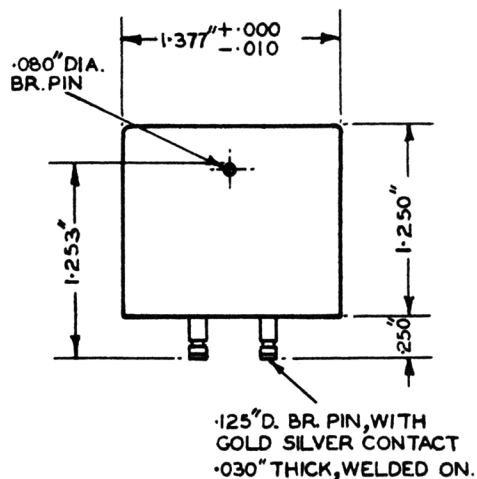


FIG. 1. MOULDED TYPE:



MATERIAL: - NI. P. BRASS CYLINDER WITH MOULDED INTERIOR.

FIG. 2. METAL SHELL TYPE.