

GENERAL POST OFFICE: E-IN-C (S)

(POVT 32D)

Specification: G.P.O./CV1641/Issue 3 Dated: 12.12.46 To be read in conjunction with K 1001	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Restricted

— — — — — indicates a change

<u>TYPE OF VALVE:</u> Triode <u>CATHODE:</u> Directly heated <u>ENVELOPE:</u> Unmetallised glass <u>PROTOTYPE:</u> 4102E		<u>MARKING</u> See K1001/4											
<u>RATING</u>		<u>BASE</u> Bayonet cap 4-pin (BC4) See drawing on page 3 and Note B.	<u>CONNEXIONS</u> <table border="1"> <thead> <tr> <th>Pin</th> <th>Electrode</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Grid</td> </tr> <tr> <td>2</td> <td>Filament -</td> </tr> <tr> <td>3</td> <td>Filament +</td> </tr> <tr> <td>4</td> <td>Anode</td> </tr> </tbody> </table>	Pin	Electrode	1	Grid	2	Filament -	3	Filament +	4	Anode
Pin	Electrode												
1	Grid												
2	Filament -												
3	Filament +												
4	Anode												
Filament current (A) 1.0 Nominal filament voltage (V) 2.1 Max. anode voltage (V) 190 Amplification factor 30.0 Anode impedance (ohms) 60,000	Note A A	<u>DIMENSIONS</u> See K1001/A1/D1											
		<table border="1"> <thead> <tr> <th>Dimension</th> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>A (mm)</td> <td>-</td> <td>125</td> </tr> <tr> <td>B (mm)</td> <td>-</td> <td>60</td> </tr> </tbody> </table>	Dimension	Min.	Max.	A (mm)	-	125	B (mm)	-	60		
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A (mm)	-	125											
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NOTE

- A. Measured with $V_a = 130$, and $V_g = -1.5$
- B. The axis of the bayonet locating pin shall lie within 25° of the plane of the filament.

TESTS

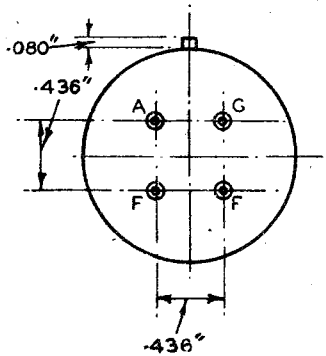
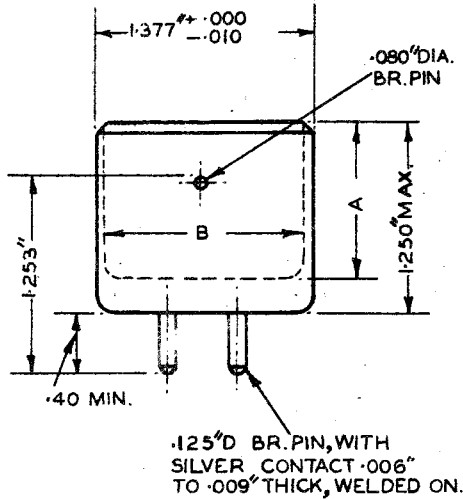
To be performed in addition to those applicable in K1001

	TEST CONDITIONS			TEST	LIMITS		No. Tested	Note
					Min.	Max.		
(a)	Test Voltage 500 Volts D.C.			<u>Insulation (megohms)</u> (i) Anode to filament (ii) Anode to grid (iii) Grid to filament	100 500 500	- - -	1% 1% 1%	
	If (A)	Va	Vg					
(b)	1.0	-	-	Vf (V)	1.8	2.4	100%	
(c)	1.0	130	-1.5	Reverse Ig (μ A)	-	0.1	100%	
(d)	1.0	130	-1.5	Ra "x" (ohms)	40,000	80,000	100%	
(e)	0.9	130	-1.5	Ra "y" (ohms)	-	1.2"x"	100%	1
(f)	1.0	130	-1.5	μ	26.0	34.0	100%	
(g)	1.0	130	-7.0	Ia (μ A)	-	1.5	100%	
(h)	1.0	0	0	Filament/hook adhesion	-	-	100%	2

NOTES

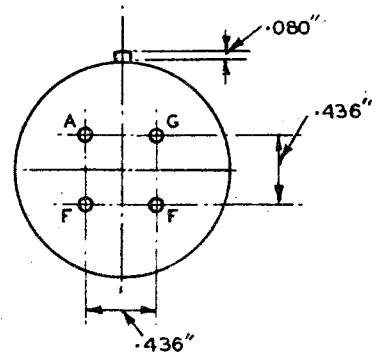
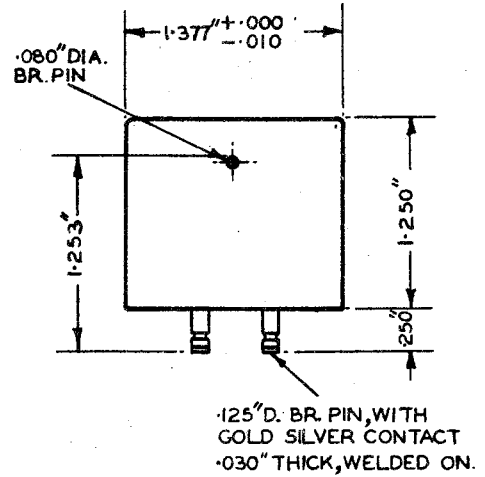
1. Re-adjust If with Va = Vg = 0
2. Visual inspection shall show that the filament is cooled in the vicinity of the tension hooks.

OUTLINE DRAWING



INTERNAL DIMENSIONS A & B
TO SUIT MANUFACTURERS
REQUIREMENTS.

FIG. 1. MOULDED TYPE.



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

FIG. 2. METAL SHELL TYPE.