

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	<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> 4101 E		<u>MARKING</u> See K 1001/4		
<u>RATING</u>		Note	<u>BASE</u> Bayonet cap 4-pin (BC4) See drawing on page 3 and Note B.	
Filament current	(A) 1.0		<u>CONNEXIONS</u>	
Nominal filament voltage	(V) 4.5	A A	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

NOTE

- 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

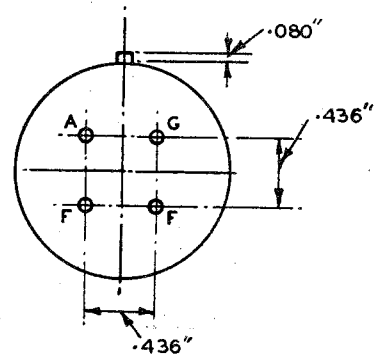
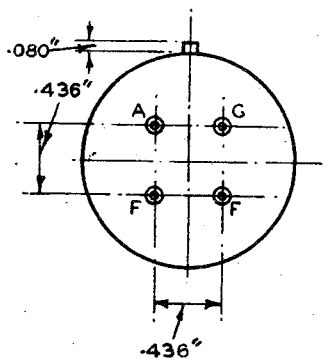
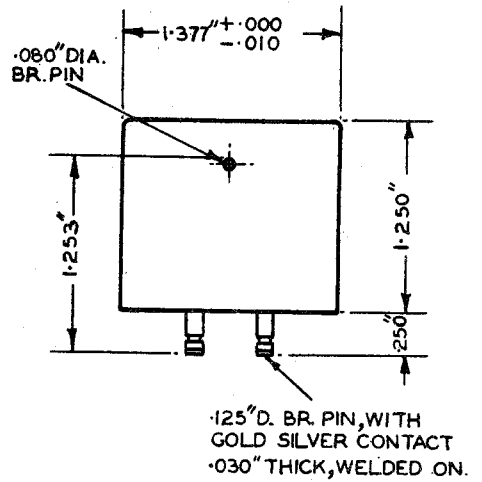
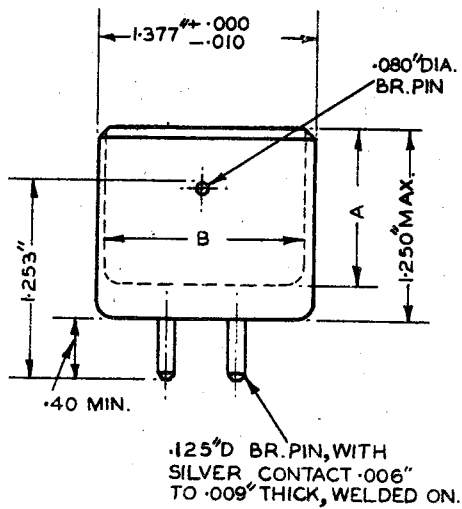
To be performed in addition to those applicable in K 1001

	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 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.

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

FIG. 1. MOULDED TYPE.

FIG. 2. METAL SHELL TYPE.