

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

(POVT 32B)

Specification: G.P.O./CV1640/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> Umetallised glass <u>PROTOTYPE</u> 4102D			<u>MARKING</u> See K1001/4		
<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) 2.1	A	Pin	Electrode	
Max. anode voltage	(V) 190		1	Grid	
Amplification factor	30.0		2	Filament -	
Anode impedance	(ohms) 60,000		3	Filament +	
		A	4	Anode	
			<u>DIMENSIONS</u> See K1001/A1/D1		
			Dimension	Min.	Max.
			A (mm)	-	125
			B (mm)	-	60
<u>NOTE</u>					
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

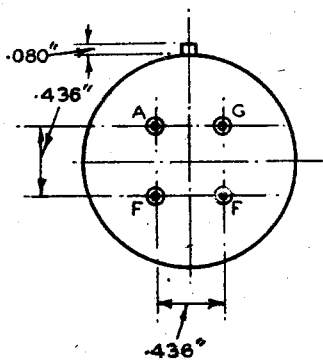
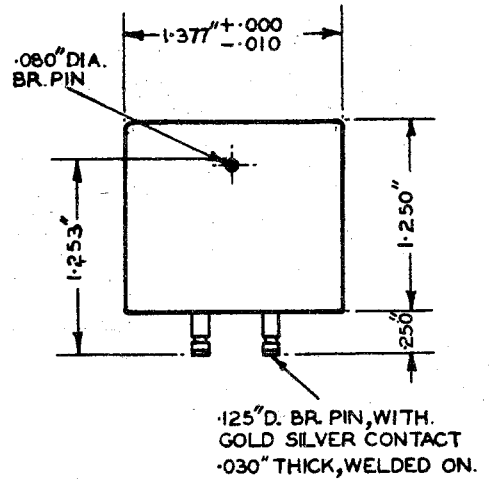
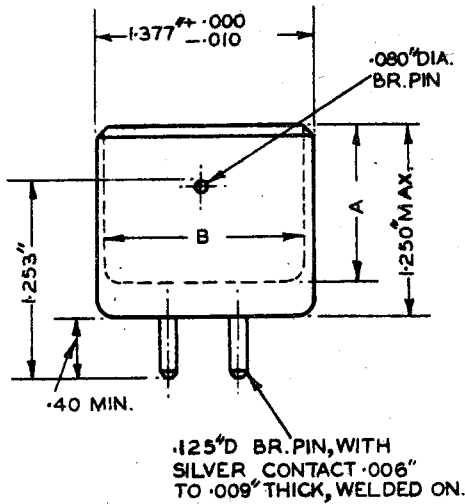
To be performed in addition to those applicable in K1001

	TEST CONDITIONS			TEST	LIMITS		No. Tested	Note
					Min.	Max.		
(a)	Test Voltage 500 Volts, D.C.			<u>Insulation (megohms)</u>				
				(i) Anode to filament	100	-	1%	
				(ii) Anode to grid	500	-	1%	
				(iii) Grid to filament	500	-	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%	

NOTE

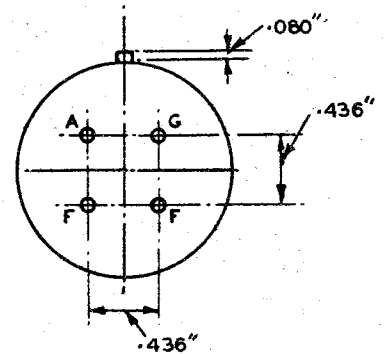
1. Re-adjust If with Va = Vg = 0

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.