

VALVE ELECTRONIC **CV1646**GENERAL POST OFFICE: E-IN-C (S)

(POVT 38A)

Specification: G.P.O./CV 1646/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>MARKING</u>					
<u>CATHODE:</u> Directly heated			See K 1001/4					
<u>ENVELOPE:</u> Unmetallised glass								
<u>PROTOTYPE</u> E 1453								
<u>R A T I N G</u>								
		Note	<u>B A S E</u>					
Filament current	(A)	0.15	Bayonet cap 4-pin (BC4) See drawing on page 3 and Note B. <u>C O N N E X I O N S</u>					
Nominal filament voltage	(V)	4.0						
Max. anode voltage	(V)	200						
Mutual conductance	(mA/V)	1.72				A	1	Grid
Amplification factor		9.5				A	2	Filament -
Anode impedance	(ohms)	5,500	A	3	Filament +			
				4	Anode			
			<u>D I M E N S I O N S</u>					
			See K 1001/A1/D1					
			Dimension	Min.	Max.			
			A (mm)	-	127			
			B (mm)	-	64			

N O T E

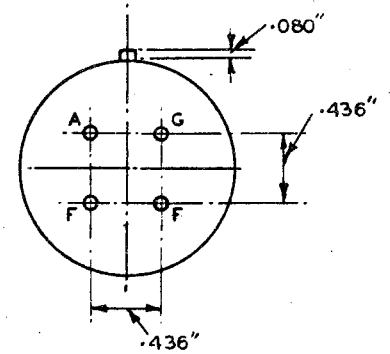
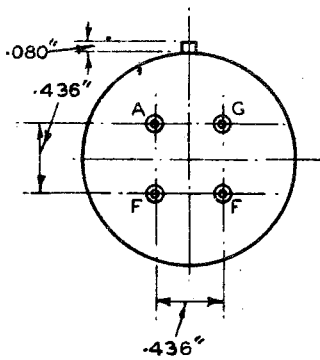
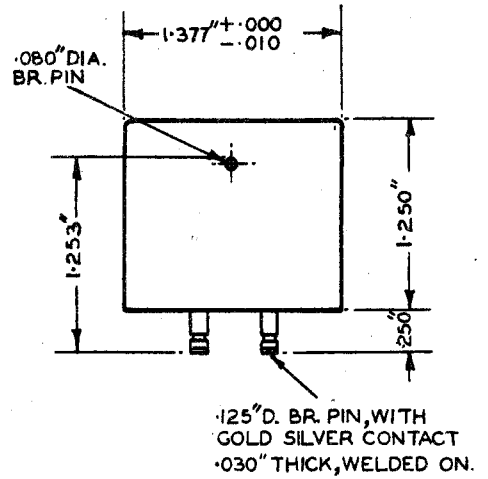
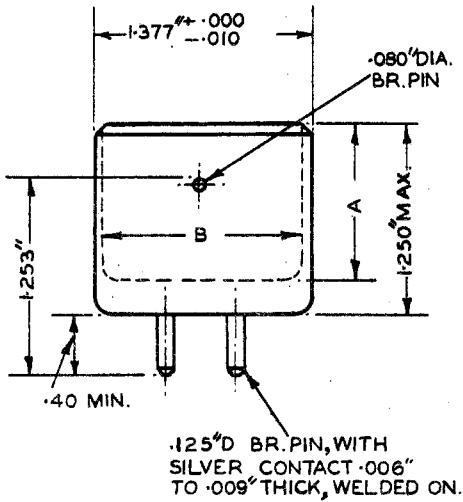
- A. Measured with $V_a = 150$, and $V_g = -5$
- B. The axis of the bayonet locating pin shall lie within 25° of the plane of the filament.

TESTS

To be performed in addition to those applicable in K 1001

	TEST CONDITIONS			TEST	LIMITS		No. Tested	Note
	If (A)	Va	Vg		Min.	Max.		
(a)	0.15	-	-	Vf (V)	3.7	4.3	100%	
(b)	0.15	150	-5	Ia (mA)	7.8	14.4	100%	
(c)	0.15	150	-5	gm (mA/V)	1.29	2.15	100%	
(d)	0.15	150	-5	Reverse Ig (μ A)	-	0.5	100%	
(e)	0.15	150	-5	μ	8.4	10.6	1%	

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.