

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

(POVT 40)

Specification: G.P.O./CV 1647/Issue 2 Date: 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

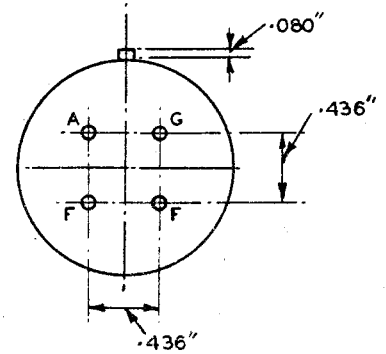
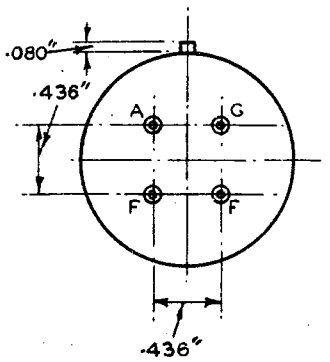
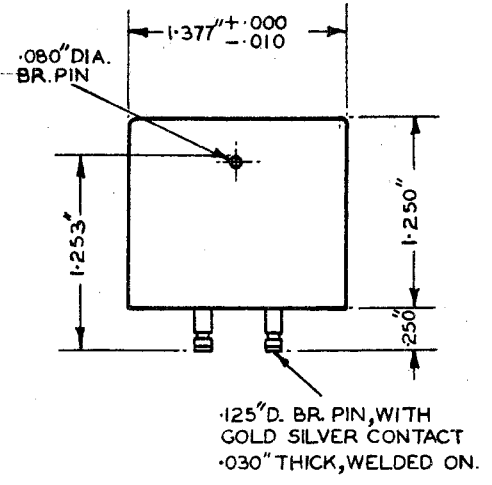
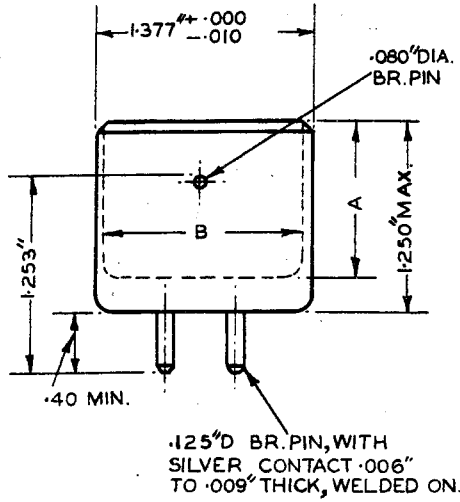
<u>TYPE OF VALVE:</u> Triode <u>CATHODE:</u> Directly heated <u>ENVELOPE:</u> Unmetallised glass <u>PROTOTYPE:</u> LS5B			<u>MARKING</u> See K 1001/4		
<u>RATING</u>			<u>BASE</u>		
Filament current	(A)	0.85	Note	Bayonet cap 4-pin (BC4)	
Nominal filament voltage	(V)	4.85		See drawing on page 3 and Note B.	
Max. anode voltage	(V)	400		<u>CONNECTIONS</u>	
Mutual conductance	(mA/V)	0.8		Pin	Electrode
Amplification factor		20.0		1	Grid
Anode impedance	(ohms)	25,000	2	Filament -	
			3	Filament +	
			4	Anode	
			<u>DIMENSIONS</u>		
			See K 1001/A1/D1		
			Dimension	Min.	Max.
			A (mm)	-	127
			B (mm)	-	64
<u>NOTE</u>					
A. Measured with $V_a = 150$, 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 K 1001

	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) Between all other electrodes	500	-	1%	
				(iii) Between any electrode and metallic shell of the base.	500	-	1%	
	If (A)	Va	Vg					
(b)	0.85	-	-	Vf (V)	4.5	5.2	100%	
(c)	0.85	150	-1.5	Reverse Ig (μA)	-	0.1	100%	
(d)	0.85	150	-1.5	μ	16.0	24.0	100%	
(e)	0.85	150	-1.5	Ia (mA)	2.1	3.5	100%	
(f)	0.85	150	-1.5	gn (mA/V)	0.65	1.05	100%	
(g)	0.85	40	40	Ie (mA)	35.0	-	100%	

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.