

## VALVE ELECTRONIC CV1626

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

(POVT 166)

Specification: G.P.O./CV1626/Issue 3	<u>SECURITY</u>	
Dated: 13-5-48	<u>Specification</u>	<u>Valve</u>
To be read in conjunction with K 1001	Restricted	Restricted

→ indicates a change

<u>TYPE OF VALVE:</u> Mercury-vapour rectifier				<u>MARKING</u>				
<u>CATHODE:</u> Directly heated				See K1001/4.				
<u>ENVELOPE:</u> Unmetallised glass								
<u>PROTOTYPE</u> RG1 - 240								
<u>RATING</u>			Note		<u>BASE</u> British 4-pin (B4)			
					<u>CONNEXIONS</u>			
Filament voltage (V)			4.0	A	Pin	Electrode		
Nominal filament current (A)			2.7		1	No connection		
Max. peak inverse voltage (V)			4700		2	No connection		
Max. peak anode current (A)			1.25		3	Filament		
Max. average anode current (A)			0.25		4	Filament		
Nominal voltage drop (V)			16		TC	Anode		
Anode voltage delay (minutes)			1.0		<u>TOP CAP</u> See K 1001/A1/D5.1			
					<u>DIMENSIONS</u> See K 1001/A1/D1			
					Dimension	Min	Max	
					A (mm)	-	13.433	
					B (mm)	-	50	
<u>NOTE</u>								
A. When the valve is first put into service, and at any time after transit, the application of anode voltage must be delayed for at least 30 minutes after switching on the filament. Thereafter, the normal working delay should be at least one minute.								

TESTS

To be performed in addition to those applicable in K 1001

	TEST CONDITIONS			TEST	LIMITS		No. Tested	Note
	V <sub>F</sub> (AC)	V <sub>a</sub>	I <sub>a</sub> (mA)		Min.	Max.		
(a)	4.0	0	-	I <sub>f</sub> (A)	2.3 2.5	2.9	100%	
(b)	4.0	2700 RMS	-	D.C. output from (A) 2 valves	0.5	-	100%	1,2
(c)	4.0	Read	300	Voltage drop, D.C. (V)	-	18	100%	

NOTES

1. Tested in a single phase full wave choke-input filter circuit in which  $L = 4.5 \text{ H}$  and  $C = 4.0 \text{ } \mu\text{F}$ .
2. A switching test shall be applied by disconnecting and re-connecting the anode supply five times in three minutes. There shall be no striking back.

SPECIFICATION CV 1626

ISSUE NO. 3. DATED 13TH MAY, 1948

AMENDMENT No. 1

Page 1. Dimensions

"A" dimension, Max. limit changed to 139 mm.

Page 2. Test (a)

Amend Heater current Min. limit to read  
2.3A instead of 2.5A.

June, 1959.

T.V.C.  
for G.P.O.

N.70635

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