

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

(POVT 191)

Specification: G.P.O./CV1628/Issue 1 Date: 11.4.47 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> Mercury vapour rectifier <u>CATHODE:</u> Directly heated <u>ENVELOPE:</u> Unmetallised glass <u>PROTOTYPE:</u> GUS		<u>MARKING</u> See K1001/4 Additional markings required (See Notes A & B) Serial No. .... Filament Volts 2.35	
<u>RATING</u>		<u>BASE</u>	See drawing on page 3
Filament voltage (V) 2.35 Nominal filament current (A) 40.0 Max. peak inverse voltage (kV) 22.0 Max. peak anode current (A) 16.0 Max. mean anode current (A) 4.0 Max. ambient temperature (°C) 34.0 Min. ambient temperature (°C) 12.0 Max. condensation temperature (°C) 54.0 Min. condensation temperature (°C) 32.0		<u>CONNECTIONS</u>	
		See drawing on page 3	See drawing on page 3
		<u>DIMENSIONS</u>	
		<u>PACKING</u>	See K1001/7.3

NOTES

- A. The Serial Numbers will be allotted by the Inspecting Officer
- B. It is not essential that the additional markings shall appear within the frame.

TESTS

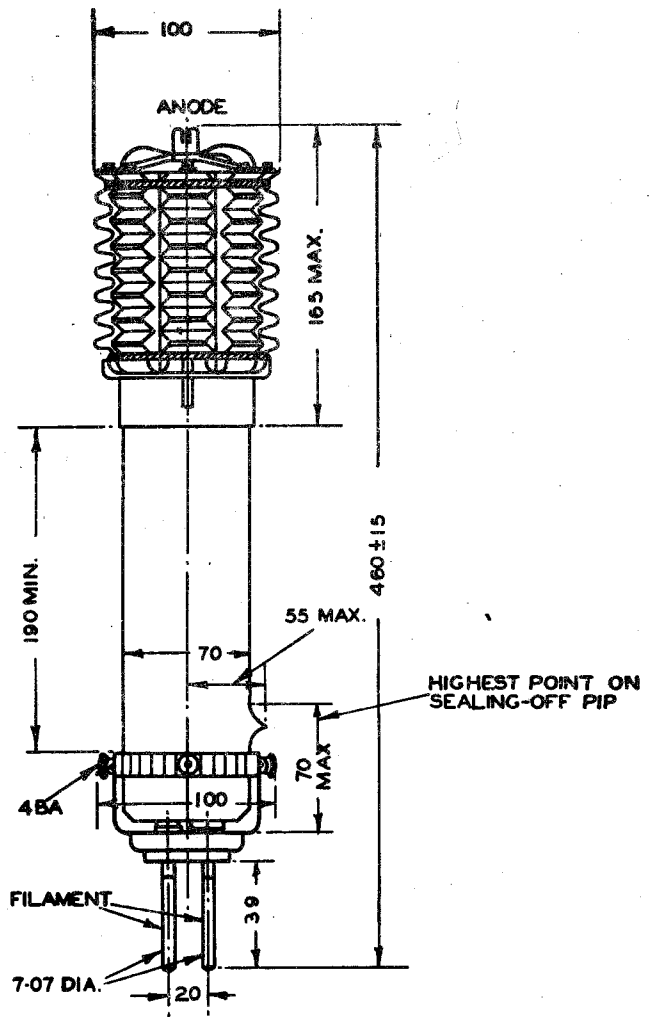
To be performed in addition to those applicable in K1001

	TEST CONDITIONS		TEST	LIMITS		No. Tested	Note
	Vf(V)	Va(DC)		Min.	Max.		
	(a)	2.35		-	If (A)		
(b)	2.35	Adjust	Va required to produce an emission current of 20A (V)	-	20.0	100%	
(c)	2.35	20kV	D.C. output per valve (A)	1.0	-	100%	1

NOTE

- This test shall be conducted in a bi-phase half-wave circuit and its duration shall be 15 minutes  
No sparking or flash-over shall occur.  
The condensation temperature shall not be less than 32°C and not greater than 54°C.

OUTLINE DRAWING



ALL DIMENSIONS ARE IN  $m/m$  AND ARE MEAN EXCEPT WHERE OTHERWISE STATED