

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

(POVT 197)

Special Marking: G.P.O./CV1629/Issue 1 Date: 19.3.47 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>PROTOWEE:</u> RG3 - 1250; GU21		<u>MARKING</u> See K1001/4 Additional markings required (See Notes A & B) Serial No.. Filament Volts 4.0		
<u>RATING</u>		Note	<u>BASE</u> Goliath Edison Screw See K1001/AIV/D13.1	
Filament voltage	(V) 4.0		<u>CONNEXION</u>	
Nominal filament current	(A) 7.0		Contact	Electrode
Max. peak inverse voltage	(kV) 11.0		Thread	Filament
Max. peak anode current	(A) 5.0		Button	Filament
Max. mean anode current	(A) 1.25		T.C.	Anode
Nominal voltage drop	(V) 16.0		<u>TOP CAP</u> RG3 - 1250 :- See K1001/A1/D5.4 GU21 :- See K1001/A1/D5.7	
		<u>DIMENSIONS</u> See K1001/A1/D1		
		Dimension	Min.	Max.
		A (mm)	-	250
		B (mm)	-	60

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 (D.C)		Min.	Max.		
(a)	4.0	-	If (A)	6.0	8.0	100%	
(b)	4.0	Read	Anode voltage required to produce anode current of 1.25A (V)	-	18.0	100%	
(c)	4.0	3.5 kV	D.C. output per valve (A)	1.0	-	100%	1
(d)	4.0	-11.0 kV	Inverse voltage	Reject for arcing back		100%	2

NOTES

- This test shall be conducted in a bi-phase half-wave circuit, and its duration shall be fifteen minutes.
No sparking or flash-over shall occur
- The duration of test (d) shall be one minute.