

SPECIFICATION GPO/CV2174/ISSUE 1.

AMENDMENT NO. 1.

Page 1.

RATINGS

Against "Main gap break down voltage (min)"

amend 240 to read 230

November, 1952.

N.140154

T.V.C. Office.
(for G.P.O.)

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

Specification: GPO/CV 2174/Issue 1. Dated: November 1950 To be read in conjunction with K 1001	<u>SECURITY</u>	
	<u>Specification</u> Unclassified	<u>Valve</u> Unclassified

—> indicates a change

TYPE OF VALVE: 3 electrode Gas-filled Relay CATHODE: Cold ENVELOPE: Glass PROTOTYPE G 240/2D		<u>MARKING</u> See K 1001/4										
		<u>PACKING</u> See K 1005										
<u>RATING</u>		<u>BASE</u> I.O. wafer metal shell.										
	<u>NOTE</u>	<u>PIN</u>	<u>ELECTRODE</u>									
Control gap breakdown Voltage(nom)(V)	75	1	Metal base shell									
Control gap maintaining voltage(nom)(V)	65	2	Not connected									
Main gap breakdown voltage (min)(V)	240	3	Anode									
Main gap maintaining voltage(nom)(V)	90	4	Not connected									
Transfer current @ Va = 200V (µA)	10	5	Trigger									
Max direct cathode current (mA)	30	6	Internally strapped									
Max Peak cathode current (mA)	50	7										
Optimum operating current (mA)	20	8	Cathode									
		<u>DIMENSIONS</u> See K 1001/A1/D1										
			<table border="1"> <tr> <td></td> <td style="text-align: center;">mm. Min.</td> <td style="text-align: center;">mm. Max.</td> </tr> <tr> <td style="text-align: center;">A</td> <td></td> <td style="text-align: center;">98.4</td> </tr> <tr> <td style="text-align: center;">B</td> <td style="text-align: center;">-</td> <td style="text-align: center;">33.3</td> </tr> </table>		mm. Min.	mm. Max.	A		98.4	B	-	33.3
	mm. Min.	mm. Max.										
A		98.4										
B	-	33.3										

CV2174 To be performed in addition to those applicable in K 1001

	TEST CONDITION	TEST	LIMITS		No. TESTED
			Min.	Max.	
a	A D.C. voltage not exceeding 65 volts shall be applied between trigger electrode and cathode, the trigger positive with anode floating. This voltage shall be increased steadily at a rate not exceeding 25 volts per sec. until the valve strikes.	Control gap striking voltage (Volts D.C.)	-	90	100%
b	With conditions as for test a adjust control gap current to 20 mA	Control gap maintaining voltage (Volts D.C.)	-	75	100%
c	A D.C. voltage not exceeding 200 volts shall be applied between anode and cathode, the anode positive and with trigger floating. This voltage shall be increased steadily at a rate not exceeding 25 volts per sec. until the valve strikes.	Main gap breakdown voltage (Volts D.C.)	230	-	100%
d	with conditions as for test c adjust the main gap current to 20 mA.	Main gap Maintaining voltage (Volts D.C.)	-	110	100%
e	With 200 volts D.C. applied to the anode and with a microammeter in series with a 10 megohm resistance connected in series with the trigger electrode the voltage to this electrode shall be increased steadily until the valve strikes. The current flowing in the trigger/cathode circuit immediately before the valve strikes shall not exceed the value specified.	Transfer current (μ A)	-	15	100%

NOTES

1. The ripple content of the D.C. supply for tests a to e shall not exceed 0.5 per cent.
2. A protective resistance of 5000 ohms shall be connected in series for all these tests.