



VALVE ELECTRONIC CV 2194

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

Specification: G.P.O./CV 2194/Issue 3 Dated, February, 1959. To be read in conjunction with K 1001 Excluding Clause 5.2, BS 1409 and BS 448.	<u>SECURITY.</u>	
	<u>Specification</u> Unclassified	<u>Valve</u> Unclassified.

→ indicates a change

<u>TYPE OF VALVE:</u> Gas Filled Voltage Stabiliser. <u>CATHODE:</u> Cold <u>ENVELOPE</u> Glass, unmetallised <u>PROTOTYPE</u> G 400/1K		<u>MARKING.</u>  See K 1001/4	
<u>RATING</u>		Note	<u>BASE</u> BS 448/B7G
			<u>CONNECTIONS</u>
→ Max.Striking Voltage (V) 400 → Nom.Stabilised Voltage. (V) 306 Max.Cathode Current. (mA) 4 → Min.Cathode Current. (mA) 2 → Voltage stability over current range (V) +0.5 to -2.5	A	Pin	Electrodes
		1	I.C.
		2	Cathode
		3	I.C.
		4	Anode
		5	I.C.
		6	Priming Anode
		7	I.C.
<u>NOTES.</u>		<u>DIMENSIONS.</u> BS 448/2.1/2	
→ A. The nominal Stabilised Voltage tends to rise towards 308 V during life.		Dimensions (mm)	Min. Max.
		A	- 47.5
		C	- 19.0
		D	- 54.5

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TESTS

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

	TEST CONDITIONS.	TEST	Limits		No. Tested.	Note
			Min.	Max.		
a.	A voltage not exceeding 300V shall be applied between anode and cathode and increased steadily at a rate not exceeding 25 volts per second until the valve strikes.	Striking Voltage (V)	-	400	100%	1
b.	Applied voltage adjusted to give cathode current = 3mA	Maintaining Voltage (V)	302	314	100%	1.2 ←
c.	Ia changed from 2.0mA to 4.0mA	Regulation (V)	-	+0.5 -2.5	100%	1 ←

NOTES.

- All electrical tests shall be carried out with starting electrode and anode strapped (pins 4 and 6), and with a D.C. power supply with a ripple content not exceeding 0.5 per cent. A protective resistance of 5000 ohms shall be included in the cathode circuit for all electrical tests.
- The applied voltage, see note 1, shall be adjusted until the cathode current reaches the test figure. An interval of not less than three minutes must elapse before a reading of maintaining voltage is taken. ←