Electronic Valve Specifications Specification GFO/CV.2194 Issue 3. Dated February, 1959

Amendment No. 1

(i) Page 1 Rating

Maximum Striking Voltage

Delete'400 V'

Insert'410 V'

(ii) Page 2 Tests

Add test 'd' as follows:-

| Test Conditions | Test | <u>Limits</u> Min. Max. | No. Tested | Note |
|------------------|-----------------------------------------------|----------------------------|---------------|------|
| d As in Test (a) | Striking voltage after 28 day holding period. | - 410 | 100% | |

September, 1964. N.228853

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

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.

Specification
Unclassified Un

Valve Unclassified.

| TYPE OF VALVE: CATHODE: ENVELOPE | Cold Glass, unmetallised | | | MARKING. See K 1001/4 | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------|---------------------------------|---------------------------------------|--------|----------------------|----------|
| PROTOTYPE | | | | | | | |
| RATING | | Note | BASE BS 44.8/B7G | | | | |
| | | | CONNECTIONS | | | | |
| Max.Striking Voltage (V) 400 Nom.Stabilised Voltage. (V) 306 Max.Cathode Current. (mA) 4 Min.Cathode Current. (mA) 2 Voltage stability over current +0.5 | | A | Pin Electrodes | | | | |
| | | | 1 I.C. 2 Cathode 3 I.C. 4 Anode | | hode | | |
| - | range (V) | to -2.5 | | 4 Anode 1.C. 6 Priming Anc. 3. 7 I.C. | | | 3 |
| NOTES. | | | DIMENSIONS. BS 448/2.1/2 | | | | |
| | | anda ta | ri oe | Dimension | s (mm) | Win. | Max. |
| A. The nominal Stabilised Voltage tends to ritowards 308 V during life. | | A C D | | | - | 47.5 19.0 54.5 | |
| | | | · | | | | • |
| Z.18981. | | | | | :19 | 14/3/1 | |

CV 2194

TESTS

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

| TEST CONDITIONS. | TEST | Limits | | No. Test | Note | |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | Min. | Max. | ķ. | | |
| | | - | 400 | 100% | 1 | |
| Applied voltage adjusted to give cathode current = 3mA | Maintaining Voltage (V) | 302 | 314 | 100% | 1.2 | - |
| Ia changed from 2.0mA to 4.0mA | Regulation (V) | - | +0.5 -2.5 | 100% | 1 | • |
| | 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. Applied voltage adjusted to give cathode current = 3mA | A voltage not exceeding 300V shall be applied between anode and cath- ode and increased steadily at a rate not exceeding 25 volts per second until the valve strikes. Applied voltage adjusted to give cathode current = 3mA Maintaining Voltage (V) | A voltage not exceeding 300V shall be applied between anote and cathode and increased steadily at a rate not exceeding 25 volts per second until the valve strikes. Applied voltage adjusted to give cathode current = 3mA Min. Striking Voltage - (V) | 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. Applied voltage adjusted to give cathode current = 3mA Applied voltage adjusted to give (V) Maintaining Voltage (V) July 200 | 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. Applied voltage adjusted to give cathode current = 3mA Min. Max. Striking Voltage (V) Maintaining Voltage (V) 100% Maintaining Voltage (V) 100% | 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. Applied voltage adjusted to give cathode current = 3mA Min. Max Striking Voltage (V) 100% 1 Applied voltage adjusted to give (V) Applied voltage adjusted to give (V) 1.2 Applied voltage adjusted to give (V) Applied voltage adjusted to give (V) 1.2 |

NOTES.

- 1. 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.
- 2. 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.

CV 2194/3/2.