# VALVE ELECTRONIC CV 1602

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

(POVT 36)

| Specification:                        | G.P.O./CV1602/Issue 1 | SECURITY      |              |  |  |
|---------------------------------------|-----------------------|---------------|--------------|--|--|
| Dated:                                | 25.4.47               | Specification | <u>Valve</u> |  |  |
| To be read in conjunction with K 1001 |                       | Restricted    | Restricted   |  |  |

\_\_\_\_\_\_ indicates a change

| E OF VALVE: Vacuum half-wave rec HODE: Directly heated tung ELOFE: Metal-glass TOTYPE CAR4 | *            | See KlOOl/4  Additional markings required (See Notes A,B,C) Serial No |                       |  |
|--|--------------|---|-----------------------|--|
| RATING   |              |   | PASE                  |  |
| •  |              | Note  | None                  |  |
| Filament voltage (V)   | As<br>marked | В   |                       |  |
| Nominal filament current (A)   | 72.5         |   | CONNEXIONS            |  |
| Max. peak inverse voltage (kV)   | 37.5         | •   | See drawing on page 3 |  |
| Max. D.C. Output voltage (kV)  | 12.5         |   |                       |  |
| Max. rectified output current (A   | .) 2.0       |   |                       |  |
| Max. anode dissipation (kW   | 10.0         |   | DIMENSIONS            |  |
| Min. rate of water flow (gals/mi   | n) 2.0       |   | See drawing on page 3 |  |
|  |              |   | PACKING               |  |
|  |              |   | See Kl001/7.3         |  |

#### NOTES

- A. The serial number will be allotted by the Inspecting Officer
- B. The Marked Voltage is defined on page 2, test (a)
- C. It is not essential that the additional markings shall appear within the frame.

## CV 1602

TESTS

To be performed in addition to those applicable in Kl001

|     | TEST CO | NDITION. | Oils Test  |     | LIMITS       |      | No.    |      |
|-----|---------|----------|--|-----|--------------|------|--------|------|
|     | Vf(V)   | Va(DC)   |  |     | Min.         | Max. | Tested | Note |
| (a) | Read    | -        | Vf Minimum required for emission of 7 amps  To be known as "Marked V |     | 17.5         | 20.0 | 100%   | 1    |
| (ъ) | M.V.    | 0        | If   | (A) | <b>7</b> 0.0 | 75.0 | 100%   | - ,  |
| (c) | M.V.    | 15 kV    | D.C. output per valve  | (A) | 2.0          | 433  | 100%   | 2    |

#### NOTES

- 1. (a) The voltage applied to the ancde shall be sufficient to draw from the filament a peak emission of 7 amps.

  The test shall be performed in accordance with KlOOl/A V.
  - (b) Alternatively, the voltage applied to the anode shall be sufficient to draw from the filament a peak emission of 3 amps, and the filament voltage required for this emission shall be multiplied by 1.13 to determine the test result.
- The test shall be conducted in a bi-phase half-wave circuit, and its duration shall be 30 minutes.
  No sparking or flash-over shall occur.

### OUTLINE DRAWING.

