VALVE ELECTRONIC CV316

ADMIRALTY SIGNAL ESTABLISHMENT

| Specification AD/CV316/Issue 2. | SECURITY | | |
|------------------------------------------------------|-------------------|-----------------------|--|
| Dated 21.2.47. To be read in conjunction with K1001, | Specn. Restricted | Valve Unclassified | |
| ignoring clause: - 5.2. | l | | |

| Half-wave. CATHODE:- Directly Hea | Half-wave. Directly Heated, Thoriat- ed Tungsten Filament. Hard Glass. | | | MARKING See K1001/4. BASE GES Base thread : F Base button : F TC : A | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---|------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------|--|
| RATING | | | TOP CAP See K1001/AI/D5. | | | |
| Filament Voltage (V) Filament Current (A) Min. Total Emission (A) Max. Steady Anode Dissipation (W) Max. Peak Inverse Voltage (kV) Max. Mean Rectified Current | 4.0 11.5 2.5 45 | A | DIMEN See K1001/AI Dimensions | 8.79 13.97 SIONS /D1. | Max. 9.4 16.51 Max. | |
| in a single Valve Circuit with Choke-input Filter (mA) | 200 | | A mm - 250 B mm - 60 MOUNTING See Note B. PACKING See K1001/7. | | | |

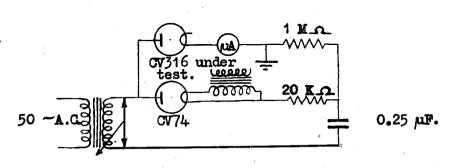
NOTES

- A. When dissipating 45 watts the anode shows no visible sign of heating.
 - (Manufacturing note: In order to ensure reasonably uniform anode heating and the absence of anode hot-spots when the anode is dissipating 45 watts, care must be taken to ensure that the filament system is assembled centrally inside the anode.)
- B. The filament, being carbonised tungsten, tends to be brittle, and it is therefore advisable to spring the valve-holder so as to reduce the transmission of mechanical shocks to the valve.

TESTS

To be performed in addition to those applicable in K1001 and in the order given below.

| | T | est Conditions | | Limits | | No. |
|---|------------------|-------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------|------|--------|
| | Vf (V) | Va (V) | Test | Min. | Max. | Tested |
| а | 4.0 | 0 | If (A) | 11 | 12 | 100% |
| ъ | 9 | Peak inverse voltage 15 kV. Test in circuit as in Fig. 1. | Inverse Voltage Test. | There shall be no sparking or field-current exceeding 20 µA as indicated by the microammeter. | | 100% |
| O | 4.0 | Adjusted to give Ia = 300 mA. (Va = 175 V approx.) Cime : 5 mins. | Vacuum. | There shall be no visible ionisation glow and no need to readjust Va during the last 3 minutes. | | 100% |
| đ | 4.0 | 3 kV applied momentarily. See K1001/AV. | Emission (A) | 2•5 | • | 100% |



Output variable up to 5400 V. R.M.S.