

| | | |
|--|------------------------------------|------------------------------|
| Specification MAP/CV317/Issue 3 Dated 19.1.49. To be read in conjunction with K.1001 ignoring clauses:- 5.2, 5.8. | <u>SECURITY</u> | |
| | <u>Specification</u> RESTRICTED | <u>Valve</u> UNCLASSIFIED |

→ Indicates a change

| | | | |
|--|-------|---------------------------------------|-----------|
| <u>TYPE OF VALVE</u> - Half wave vacuum rectifier <u>CATHODE</u> - Indirectly heated <u>ENVELOPE</u> - Glass | | <u>MARKING</u> See K1001/4 | |
| | | <u>PACKING</u> See K1005 | |
| <u>RATING</u> | | <u>BASE</u> B9G | |
| | Note. | Pin | Electrode |
| Heater Voltage (V) | 4.0 | 1 | H |
| Heater Current (A) | 1.75 | 2 | H + C |
| Max. applied R.M.S. voltage (kV) | 5.0 | 3 | H + C |
| Max. no load peak inverse voltage (kV) | 14.0 | 4 | H |
| Max. working peak inverse voltage (kV) | 12.5 | 5 | H + C |
| Max. mean D.C. rectified current (mA) | 60 | 6 | H + C |
| Max. peak anode current (mA) | 350 | 7 | H + C |
| Max. reservoir condenser (μF) | 1.0 | 8 | H + C |
| Min. limiting resistance introduced externally (ohms) | 4000 | 9 | H + C |
| | | T.C. | A |
| | | <u>DIMENSIONS</u> See K.1001/A1/D2 | |
| | | <u>TOP CAP</u> See K.1001/A1/D5.2 | |

NOTES

- A:- Heater voltage must be applied at least 1 minute before application of anode voltage.
- B:- All contacts in the valve holder must be connected including the sole plate which should be joined to cathode.

CV317

TESTS

Page 2

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

| Clause | Test Conditions | | Test | Limits | | No. Tested | Note |
|--------|--------------------|--|---|--------|------|--------------|------|
| | V _h | V _a | | Min. | Max. | | |
| a | 4.0 AC or DC | - | I _h (A) | - | 2.0 | 100% or S | |
| b | 4.0 AC or DC | 60 D.C. max. | I _a (mA) | 80 | - | 100% | 1 |
| c | 4.0 | 5.0 KV. RMS. 50 cps. Nominal DC load current 60 mA, reservoir condenser 1.0 μF and effective series resistance introduced externally 4000 ohms. H.T. voltage to be applied 1 min. after application of V _h . After a further 10 secs. the H.T. shall be switched three times, 5 secs on and 5 secs. off. | <u>LOAD TEST</u> Reject for softness or persistent flash-over. | | | 100% | |

NOTE

1:- Applied only for sufficient time to obtain steady reading.