

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV202/Issue 4. Dated 21.2.47. To be read in conjunction with K1001, ignoring clauses:- 5.2, 5.8 and 5.9.	<table border="1"> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <td><u>Specn.</u></td><td><u>Valve</u></td></tr> <tr> <td>Secret Unclass</td><td>Unclassified</td></tr> </table>	<u>SECURITY</u>		<u>Specn.</u>	<u>Valve</u>	Secret Unclass	Unclassified
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<u>TYPE OF VALVE:-</u> Bolometer Indicator. <u>FILAMENT:-</u> Directly Heated Tungsten. <u>ENVELOPE:-</u> Glass, unmetallised. <u>PROTOTYPE:-</u> A.S.E. Type YF.	<u>MARKING</u> Valve : None Box : CV202												
<table border="1"> <tr> <th colspan="2"><u>RATING</u></th></tr> <tr> <td>Cold resistance at 2.0 mA. (ohms)</td><td>10.5 \pm 1</td></tr> <tr> <td>Max. Power Filament can dissipate safely (mW)</td><td>200</td></tr> <tr> <td>Approx. power dissipated in filament when just glowing (mW)</td><td>20</td></tr> </table>	<u>RATING</u>		Cold resistance at 2.0 mA. (ohms)	10.5 \pm 1	Max. Power Filament can dissipate safely (mW)	200	Approx. power dissipated in filament when just glowing (mW)	20	<table border="1"> <tr> <td data-bbox="654 725 744 887">Note</td><td data-bbox="744 725 1151 887"> <u>DIMENSIONS AND CONNECTIONS</u> See page 2. </td></tr> <tr> <td data-bbox="654 887 744 1320"></td><td data-bbox="744 887 1151 1320"> <u>PACKING</u> See K1001/7. </td></tr> </table>	Note	<u>DIMENSIONS AND CONNECTIONS</u> See page 2.		<u>PACKING</u> See K1001/7.
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TESTS

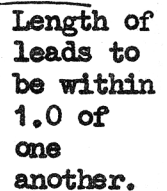
To be performed in addition to those applicable in K1001.

	Test Conditions	Test	Limits		No. Tested	Note
	If (mA)		Min.	Max.		
a	2.0	Resistance (ohms)	9.5	11.5	100%	1
	Ambient temperature = 20°C.					
b	24	Resistance (ohms)	35	-	100%	3

NOTES

1. If the ambient temperature differs from 20°C. a correction of 0.1 ohm should be applied to the measurements for every two degrees difference of temperature.
2. While on the pump the tube should be baked at 360°C. and, before sealing-off, the filament should be outgassed by passing 65 mA through it for 3 mins. The vacuum in the sealed-off tube must be of the order 10^{-6} mm. mercury so that the tube will operate in R.F. fields without any ionisation glow.
3. This test should be done after the tube has been sealed-off for at least a week. It is designed to reject leaking tubes, and it ensures that in those which are satisfactory the filament power required to raise the filament resistance to 35 ohms does not exceed 20 milliwatts. The test may be done conveniently by noting the filament voltage when the filament current is 24 mA; the voltage should not be less than 0.84 volt.

9 Min.



All dimensions
in millimetres.

Filament:- The filament shall be of tungsten wire 0.015 mm. in diameter and 30 mm. long. It should be as straight as possible and be as close as possible to the axis of the tube so that when it is carrying its maximum current (65 mA) it is well clear of the inside wall of the bulb.

Glass:- The glass bulb shall be clean and free of air-lines and other blemishes.