

MINISTRY OF AVIATION - R.R.E.

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|---|--------------------------------------|------------------------------|
| Specification MOA/CV263 Issue 7 Dated 31st August 1965 To be read in conjunction with K1001 | <u>SECURITY</u> | |
| | <u>Specification</u> Unclassified | <u>Valve</u> Unclassified |

→ Indicates a change

| | |
|--|--|
| TYPE OF VALVE - Gas-filled Power Indicator Tube CATHODE - None ENVELOPE - Glass PROTOTYPE - VX3026 | <u>MARKING</u> See K1001/4 |
| | <u>BASE</u> See Drawing on Page 3 |
| <u>RATING</u> This Indicator Tube is suitable for measuring peak RF power up to 1000 watts within the frequency range of 2800-11000 Mc/s. | <u>DIMENSIONS</u> See Drawing on Page 3 |
| | <u>MOUNTING POSITION</u> Any |
| | <u>NATO STOCK NO.</u> 5960-99-000-0263 |

NOTE

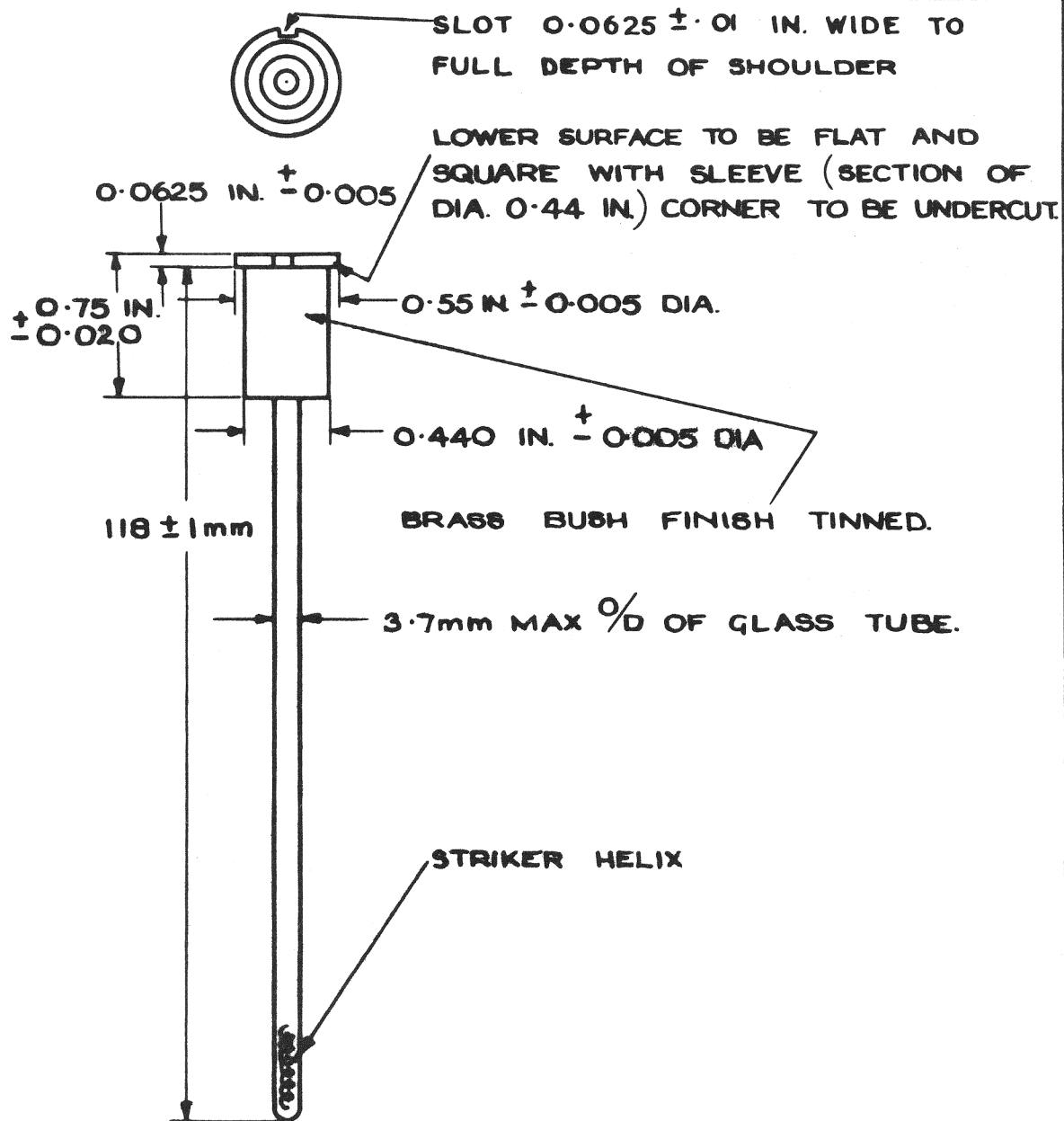
- A. The gas-filling shall be a mixture of inert gasses, predominantly neon.

To be performed in addition to those applicable in K1001

| Test Conditions | Test | Limits | | No. Tested | Note |
|--|--|--------|------|---------------|------|
| | | Min. | Max. | | |
| (a) The Indicator Tube shall be energised with 850 watts peak RF power. Frequency = 9375 ± 500 Mc/s; PRF = $2000 \text{ pps} \pm 10\%$ Tp = $0.5 \text{ } \mu\text{sec} \pm 10\%$ | Height of glow (mm) | 40 | 50 | 100% | 1,2 |
| (b) As for Test (a) | Height of glow (mm) measured after 7 days' storage period. | 40 | 50 | 5% | |

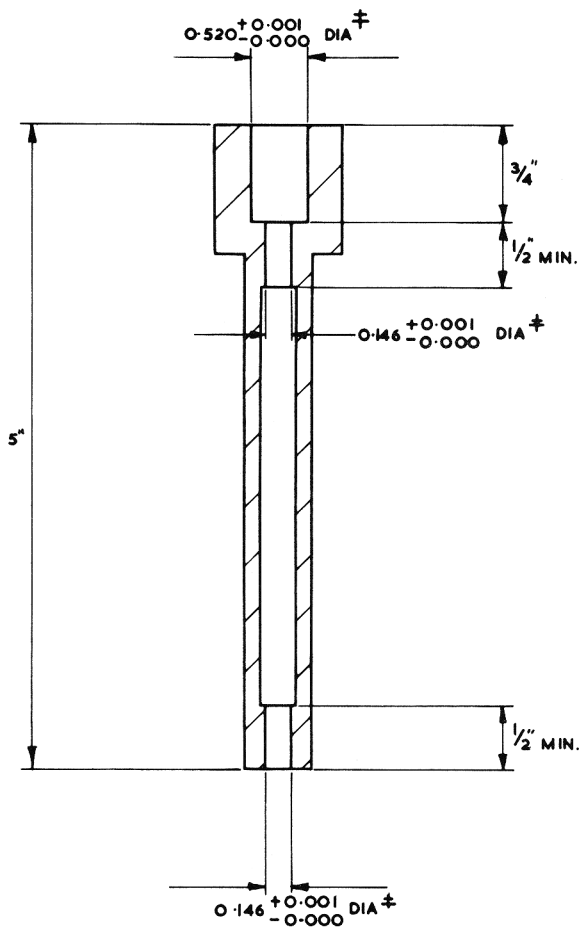
NOTES

1. The tube under test shall be inserted into the standard mount, Wattmeter Absorption Type 2 (A.M. Ref. No. 10AF/525). The standard mount shall be coupled by means of a directive feed to a wave guide line, and the line shall be terminated in a resistive load. The directive feed and the peak R.F. power in the wave guide shall be adjusted to give 850 watts peak R.F. power into the wattmeter, as determined from the p.r.f. pulse width, and the average power indicated by a thermistor bridge. (Hewlett Packard type 430C using a thermistor type 477B is suitable.)
2. Alternatively the glow height may be checked against a standard tube, the glow height of the standard being adjusted to 45 mm.



NOTE: THE END OF THE GLASS TUBE WHICH CONTAINS THE PROBE MUST BE CONCENTRIC WITH THE BRASS BUSH TO WITHIN 2mm.

CONCENTRICITY GAUGE



NOTES

HOLES INDICATED THUS \oplus MUST
BE CONCENTRIC TO WITHIN 0.001

DIMS IN INCHES

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ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION MOA/CV263, ISSUE 7, DATED 31st August 1965

AMENDMENT No.1

Page 3 Outline Drawing

Flange tolerance at the top of metal ferrule

Delete: 0.0625 in ± 0.005

Insert: 0.0625 in $\begin{matrix} +0.020 \\ -0.000 \end{matrix}$

Delete also Note at bottom of page.

T.V.C. for R.R.E.

April 1966

N.310032