ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV119/Issue 4.	SEC	URITY
Dated 10.3.47. To be read in conjunction with K1001, ignoring clause: - 5.8.	Specn. Restricted	<u>Valve</u> Unclassified

FILAMENT:- Directly tungs to ENVELOPE:- Glass, or	Bolometer indicator. Directly heated tungsten. Glass, clear. A.S.E. Type "XJ".		MARKING See K1001/4. For Additional Marking. See Fig. 1.
RATING		Note	DIMENSIONS & CONNECTIONS See Fig. 1.
Current for "just glowing Max. running dissipation	(A) 0.7		PACKING See K1001/7.

NOTES & TEST

- 1. The indicator is to be evacuated to a pressure of about 10⁻⁶ mm of mercury. Before sealing off, the filament must be run for 5 minutes with If = 4.8 A. At the end of this period, the Vf for If = 4.8 A shall be between the limits 20 ± 2 V.
- 2. The indicator should be mounted vertically during pumping, to minimise sagging of the filaments.

CONSTRUCTIONAL NOTES

- A. Filament. Tungsten 0.15 mm. dia. wound and annealed to dull red on 0.56 mandril. Two 15 mm. lengths of the close-wound spiral stretched to 35 mm. and welded to supports, and then stretched to 37 mm. Final stretching to 40 mm. done at sealing in. Axes of filament 4 mm. apart.
- B. Glass bead. Centred on tungsten part of lead-out wire.

