VALVE ELECTRONIC CV2157

ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV2157/Issue 4.	SECURITY		
Dated 6. 10. 53. To be read in conjunction with K1001.	Specification Unclassified	<u>Valve</u> Unclassified	

TYPE OF VALVE: - Gas-Filled Pre-TR Cell
for S-Band.

CONSTRUCTION: - Cylindrical Glass Cell.

PROTOTYPE: - VX3114.

RATING

Marking
See K1001/4.

DIMENSIONS

See Fig. 1. Page 3.

NOTES

- A. Solid Filling. The cell shall be filled as completely as possible with Brazilian Rock Crystal in the form of needles up to 4mm in length mixed in equal parts of material sieved through 25-30B.S.S. 30-36 B.S.S. and 36-52 B.S.S. sieves.
- B. Gas Filling. The cell shall also contain a standard gas mixture of 80% neen and 20% helium and an additional 0.40% of argon at a pressure of 40 mm + 2 mm of mercury.
- C. Packing. The cells shall be packed singly in an approved type of carton.

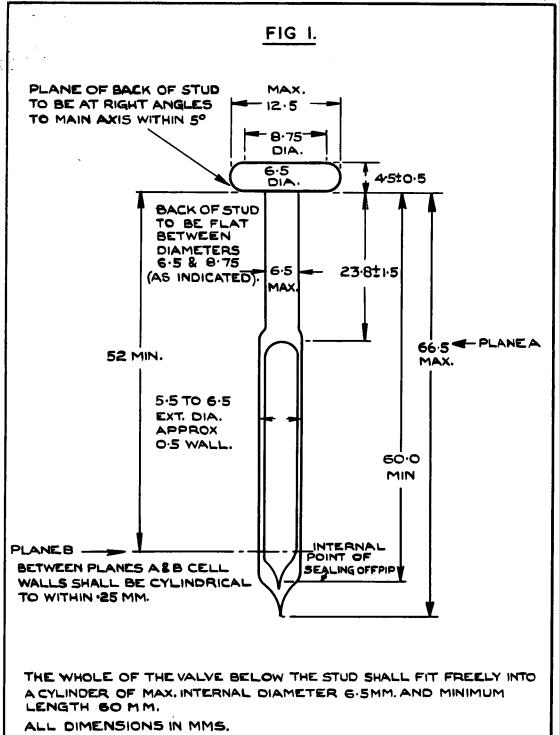
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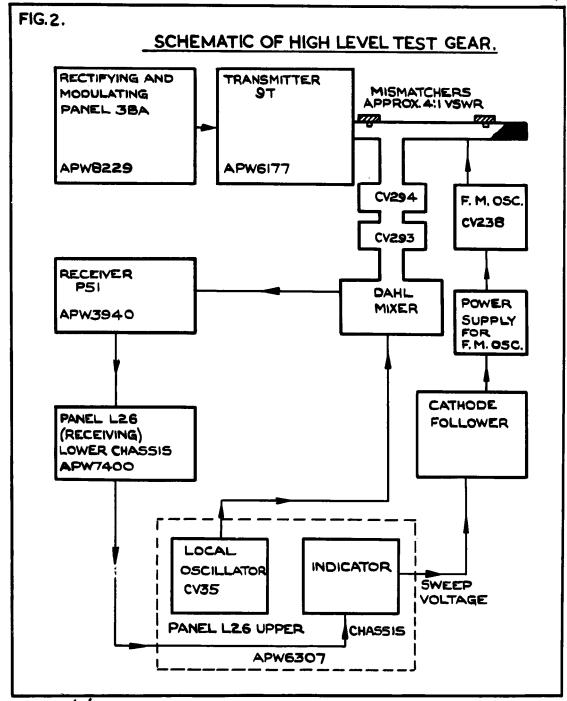
<u>TES</u>

To be performed in addition to those applicable in K1001.

	Test Conditions	Test	Limits		No.
	lest Conditions		Min.	Yax.	
•	Operate the cell in an approved circuit of the kind shown in Fig. 2, at a point in the waveguide (3" x 1") corresponding to a 2 MW level of power transmitted without reflexions. Observe the deionisation time of the cell in conjunction with a normal CV293 (Time taken from the end of the transmitter pulse for the signal power transmitted by the pre-TR + TR system to rise to a level 6 db below the signal level when fully deionised).	Deionisation (recovery) time. (uS)	-	10	%
Ъ	The cells shall be operated in an approved circuit (277P) at S.V.T.L. at an R.F. pewer level of 2 MW and the average life recorded.	Average life (Hours)	500	•	1 %



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CV2157/4/1V