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	Valve Unclassified	

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Indicates a change

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

CONSTRUCTION :- Cylindrical Glass Cell.

PROTOTYPE: - VX3114.

RATING

Mean Switched R/F Power (MW) 2

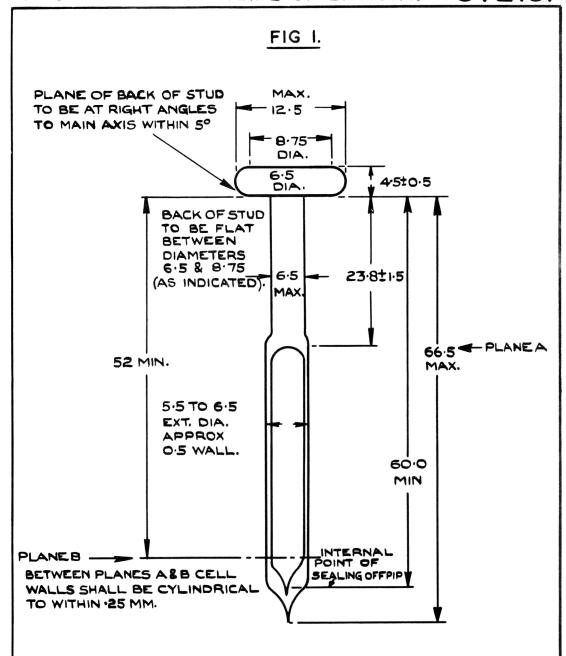
NOTES

- 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% neon and 20% helium and an additional 0.40% of argen at a pressure of 40 mm + 2 mm of mercury.
- C. Packing. The cells shall be packed singly in an approved type of carton.

TESTS

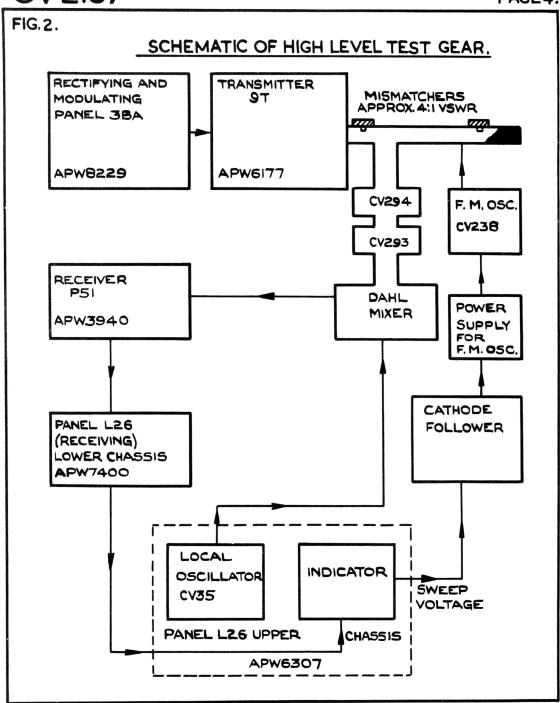
To be performed in addition to those applicable in K1001.

	Mark Candibian	Test	Limits		No.
	Test Conditions		Min.	Max.	Tested
	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. (µS)	•	10	5%
Ъ	The cells shall be operated in an approved circuit (277P) at S.V.T.L. at an R.F. power level of 2 MW and the average life recorded.	Average life (Hours)	500	-	1%



THE WHOLE OF THE VALVE BELOW THE STUD SHALL FIT FREELY INTO A CYLINDER OF MAX. INTERNAL DIAMETER 6.5MM. AND MINIMUM LENGTH 60 MM.

ALL DIMENSIONS IN MMS.



CV2157/4/1V