## VALVE ELECTRONIC CV294

## ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV294/Issue 5.	SECURITY		
Dated 6. 10. 53.	Specification	<u>Valve</u>	
To be read in conjunction with K1001.	Unclassified	Unclassified	

## -> Indicates a change

TYPE OF VALVE: Gas-filled Pre-TR Cell for S-Band.  CONSTRUCTION:- Cylindrical Glass Cell.	MARKING See K1001/4.		
PROTOTYPE: - VX3035	DIMENS IONS		
RATING	See Fig. 1. Page 3.		
See "Tests".			

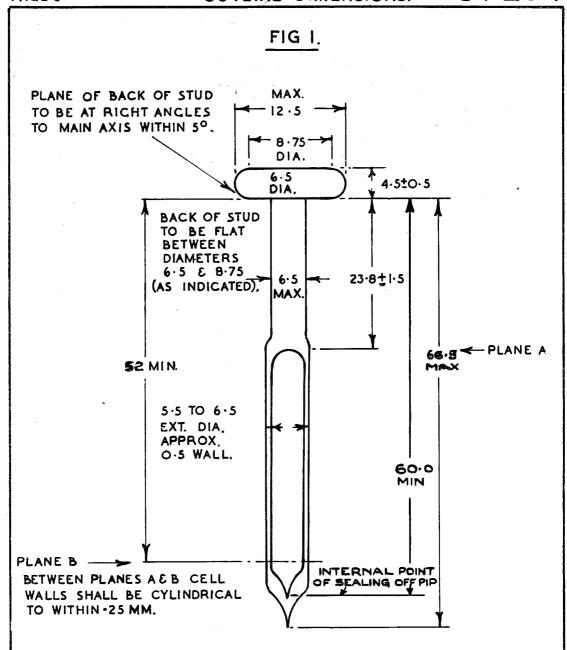
## NOTES

- A. Solid Filling. The cell shall be filled as completely as possible with Brazillian Rock Crystal in the form of needles up to 4 mm in length mixed in equal parts of material sieved through 25-30 B.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 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.

<u>TESTS</u>

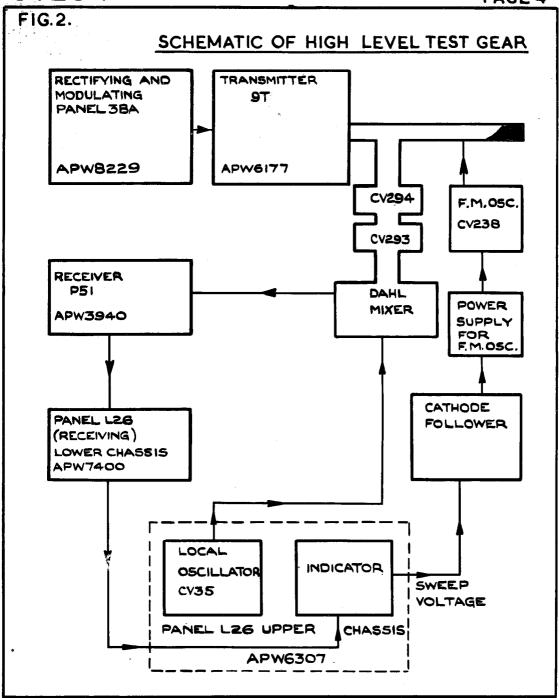
To be performed in addition to those applicable in K1001.

ſ	T	-		Limits	its	No. Tested
l	1	Test Conditions	Test	Min.	Max	
	8.	Operate the cell in an approved circuit of the kind shown in Fig. 2. 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	5%
	Ъ	The cells shall be operated in an approved circuit (277P) at S.V.T.L. 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 6.5 MM. AND MINIMUM LENGTH 60 MM.

ALL DIMENSIONS IN MMS.



CV294/5/IV.