VALVE ELECTRONIC **CV286**

MINISTRY OF SUPPLY (S.R.D.E.)

Specification MOS/CV286/Issue 4 Dated:- 28.11.46 To be read in conjunction with K1001, ignoring clause 5.2.	SECURITY Specification: Restricted Valve: Unclassified

→ indicates a change

TYPE OF VALVE:- Gas filled voltage stabiliser.
CATHODE:- Cold
ENVELOPE:- Glass-unmetallised
PROTOTYPE:- None

MARKING
See K1001/4

RATING		Note
Max. Anode take-over voltage (V)	110	A
Max. Anode Current (mA)	10	
Min. Anode Current (mA)	2	
Mean voltage drop across valve operating at 5 mA. (V)	95	A
Max. priming anode current (mA)	0.5	B

BASE
B/G

Pin	Electrode
1) 2) 3)	Cathode
4	Priming anode
5) 6) 7)	Anode

NOTES

A. These conditions apply with the priming electrode connected to 150V positive through 0.25 MΩ.

B. If not required for use, the priming electrode shall be joined to the main anode through a resistance of 3,000Ω.

DIMENSIONS
See K1001/AI/D4 ←

Dimensions	Min.	Max.
A mm	-	54
B mm	-	19

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. tested
	Priming anode voltage	Main anode voltage	Main anode current (mA)		Min.	Max.	
a	150V through 0.25 MΩ	80V	-	The valve must conduct			100%
b	150V through 0.25 MΩ	Increased until current flows	-	Anode take-over voltage (V)	-	110	100%
c	150V through 0.25 MΩ	Adjust	5	Voltage drop between main anode and cathode (V)	90	100	100%
d	150V through 0.25 MΩ	Adjust	Changed from 2 to 10 mA	Regulation (V)	-	5	100%
e	The valve is to be tested for freedom from noise during operation. For this purpose, a calibrated amplifier-detector, having a response within ± 2 db of its response at 400c/s over the range of 50-5000c/s., is to be connected between the anode and cathode. The cathode current is to be varied slowly from 10 mA to 2 mA and at no point in this range must the R.M.S. noise input voltage to the amplifier exceed 15 mV.						