MINISTRY OF SUPPLY (D.C.D.)

VALVE ELECTRONIC

CV395

Specification MAP/CV.395/Issue 4 Dated 21.6.50 To be read in conjunction with K.1001 excluding clauses 5.2, 5.8.	SECURITY	
	Specification	Valve
	UNCLASSIFIED	UNCLASSIFIED ←

—> Indicates a change

TYPE OF VALVE - Voltage Stabiliser.

CATHODE - Cold

ENVELOPE - Glass, unmetallised.

PROTOTYPE - VX.372.

MARKING

See K.1001/4

BASE

B8G.

See K.1001/AIV/D12.

RATINGS

			Note
Max. Anode take-over voltage	(V)	170	A
Max. Anode current	(mA)	45	
Min. Anode current	(mA)	5	
Mean voltage drop across valve operating at 25mA.	(V)	150	A
Max. priming anode current	(mA)	1.0	B

CONNECTIONS

Pin	Electrode
1), 2)	Anode
3	Priming Anode
4), 5), 6), 7), 8)	Cathode

DIMENSIONS

See K.1001/A1/D7

Dimension		Min.	Max.
B	(mm)	-	29
A	(mm)	70	80 ←

NOTES

A. These conditions apply with the priming electrode connected to 200V. + ve through 100 k Ω.

B. If not required for use, the priming electrode shall be joined to the main anode through a resistance of 80,000 Ω

CV395

TESTS

To be performed in addition to those applicable in K.1001.

	Test Conditions			Test	Limits		No. Tested
	Priming Anode Voltage	Main Anode Voltage	Main Anode Current (mA)		Min.	Max.	
a	200 V. through 0.1 MΩ	0	-	The valve must conduct			100%
b	200 V. through 0.1 MΩ	Increased until current flows.	-	Anode take-over voltage (V)	-	170	100%
c	200 V. through 0.1 MΩ	Adjust	25	Voltage drop between main anode and cathode (V)	145	155	100%
d	200 V. through 0.1 MΩ	Adjust	Changed from 5 to 45.	Regulation (V)	-	5	100%
e	200 V. through 0.1 MΩ	Adjust	Changed from 5 to 25.	Regulation (V)	-	2	100%
f	The valve is to be tested for freedom from noise during operation. For this purpose a calibrated amplifier detector having a response within ± 2db. of its response at 400 c.p.s. over the range of 50-5000 c.p.s. is to be connected between the anode and cathode. The cathode current is to be varied slowly from 45 m.A. to 5 m.A. and at no point in this range must the R.M.S. noise input voltage to the amplifier exceed 10mV.						100%