MINISTRY OF SUPPLY (D.C.D.)

VALVE ELECTRONIC **CV45**

Specification MAP/CV45/Issue 4
Dated 28.8.46.
To be read in conjunction with
K1001 ignoring clauses 5.2, 5.8.

SECURITY

Specification	Valve
~~RESTRICTED~~ Unclassified	~~RESTRICTED~~ Unclassified

→ Indicates a change

TYPE OF VALVE - Three electrode, gas filled voltage stabiliser

CATHODE - Cold

ENVELOPE - Glass-unmetallised

MARKING

See K1001/4 ←

RATING		Note
Max. Striking Voltage (V)	135	A
Max. Space Current (mA)	75	
Normal Stabilised Voltage (V)	120	A

NOTE

A. These conditions apply with the priming electrode connected to 190 volts positive through 50,000 Ω

BASE

B4

Pin	Electrode
1	Anode
2	Cathode
3	No connection
4	Priming Anode

DIMENSIONS

See K1001/A1/D1.

Dimensions		Min.	Max.
A	(mm)	113	125
B	(mm)	44	52

CV45

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	190 through 50,000Ω	0	-	The valve must conduct			100%
b	As in clause 'a'	increased until current flows	-	Striking Voltage (V)	-	135	100%
c	As in clause 'a'	adjusted to give required cathode current	75	Voltage drop between main anode and cathode after running for 15 mins. under the conditions given. See Note 1	115	135	100%
d	As in clause 'a'	adjusted to give required cathode current	10	Alteration in value of voltage drop between main anode and cathode from that found in test clause 'c'	-	10	100%

NOTE

1. If preferred the fifteen minutes run may be done on a separate pre-heating unit, and 1% of the valves submitted to the complete test as defined in test clause 'c'.