MINISTRY OF SUPPLY (D.C.D.)

VALVE ELECTRONIC **CV189**

Specification DCD/CV189/Issue 3
Dated 11.7.46.
To be read in conjunction with K1001

SECURITY

Specification	Valve
[redacted]	[redacted]

Unclassified Unclassified

→ Indicates a change

TYPE OF VALVE - Gas filled protective spark gap.

BULB - Glass-Unmetallised

PROTOTYPE - B.S.4.

MARKING

See K1001/4

RATING			Note
Max. Breakdown Voltage	(V)	17	A
Max. Mean Current	(mA)	2.0	B
Max. Peak Current	(A)	100	

BASE

I.O.

TOP CAP

See K1001/A1/5.1 except that height may be 10.3mm min. to 11.9mm max.

Pin	Electrode
1	Lower electrode
2	No connection
3	" "
4	" "
5	" "
6	" "
7	" "
8	Lower electrode
Top Cap	Upper electrode

NOTES

A:- This rating shall apply under conditions of reduced pressure equivalent to 9.27 inches of mercury at 15°C.

B:- Averaged over a period of 3 seconds

DIMENSIONS

See K1001/AI/D1.

Dimension		Min.	Max.
B	mm	29.0	31.0
C	mm	-	35.0
L	mm	64.0	70.0
Length excluding top cap and base		28.5	-

To be performed in addition to those applicable in K1001

	Test Conditions	Test	Limits		No. Tested	Note
			Min.	Max.		
a	Voltage pulses of 1 usec. duration and PRF between 50 and 1500 to be applied, the slope of the voltage front near breakdown being 50-70kV. per microsecond.	Breakdown Voltage (kV)	15	17	100%	1
b	The valve shall operate satisfactorily under conditions of reduced pressure equivalent to 9.27 inches of mercury at 15°C.				Type Approval	

NOTE

1:- Test to be carried out after 7 day's shelf life.