MINISTRY OF SUPPLY (D.C.D.)

VALVE ELECTRONIC CV215

Specification MAP/CV215/Issue 6 Dated 19.1.49. To be read in conjunction with K.1001.	SECURITY Specification: RESTRICTED Valve: UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE: Hydrogen diode

CATHODE: Directly heated

ENVELOPE: Glass

PROTOTYPE: E1497

MARKING

See K.1001/4

PACKING

See K.1005

BASE

None

DIMENSIONS AND CONNECTIONS

See drawing on Page 3.

RATING			Note
Filament Voltage	(V)	2.0	
Filament Current	(A)	8.2	
Short Pulse P.I.V.	(kV)	3.5	
Fault Pulse P.I.V.	(kV)	7.5	A
Normal Voltage Drop	(V)	40-120	B
Max. Mean Current	(mA)	50	C
Max. Peak Current	(A)	18	C

NOTES

A: For a maximum period of 50 milliseconds.

B: For a pulse length not less than 1μsec. and peak current not greater than 18 amps.

C: Pulse length 1μsec. and repetition rate 1200 per sec. Higher ratings must be established by life test.

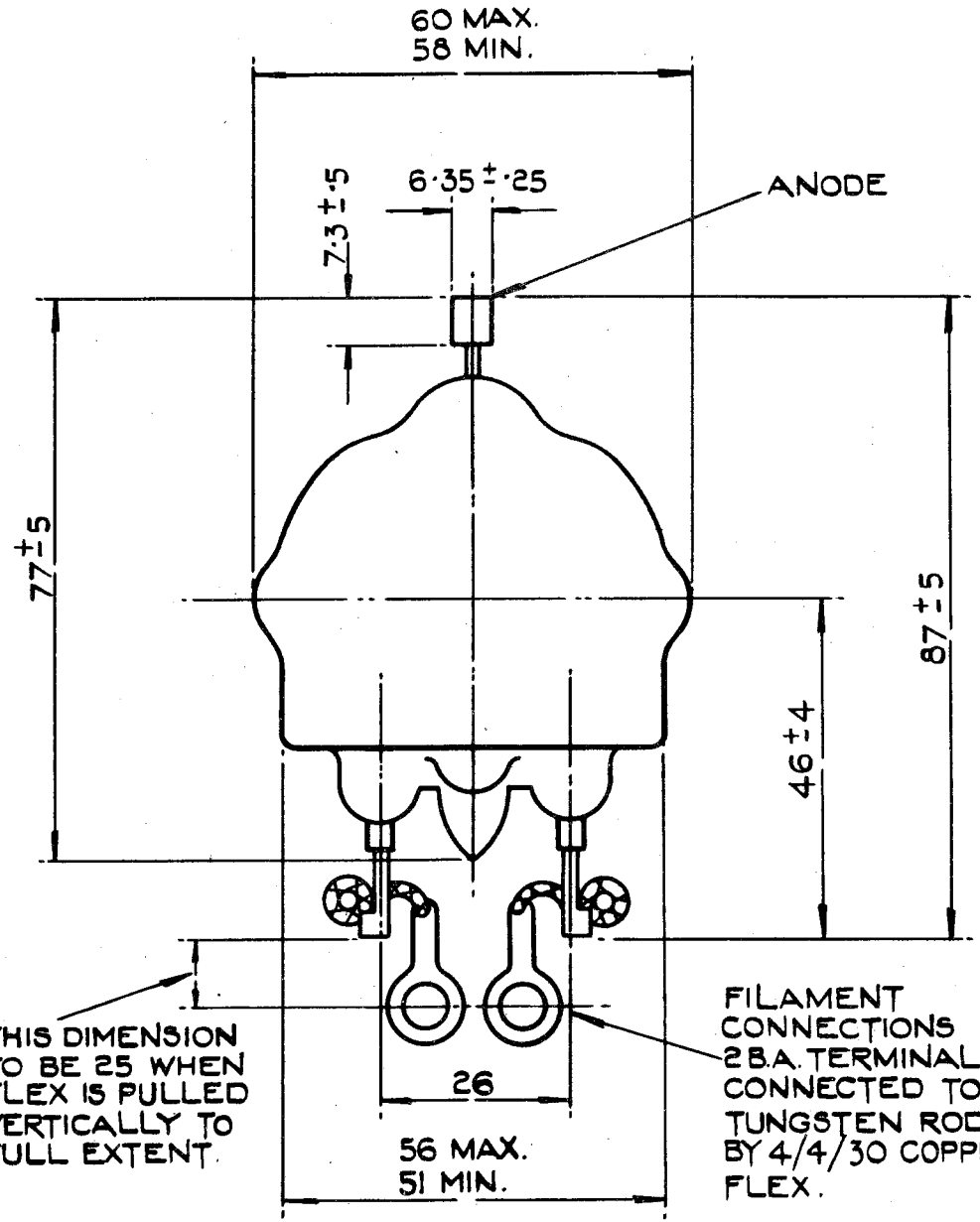
CV215

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions	Test	Limits		No. Tested
			Min.	Max.	
a	Vf = 2.0	If (A)	7.4	9.0	100%
b	Applied pulse voltage to give peak current of 20 amps., pulse length 15 μsecs., and pulse shape sinusoidal.	Voltage drop across valve (V)	-	120	100%
c	Applied pulse voltage to give 50 mA. mean current, 18 amps. peak current and peak inverse voltage of 3.5 kV. with pulse length of 1 μsec., repetition rate of 1200 per sec., and minimum rate of rise of current 80 amps. μsec.	The valve shall operate satisfactorily and the wavefront shall be steady and smooth and the reverse current less than 1 amp. peak.			100%

CV 215



ALL DIMENSIONS IN MILLIMETRES.