MINISTRY OF SUPPLY (D.C.D.) VALVE ELECTRONIC **CV1580**

Specification MAP/CV1580/Issue 6 Dated 14.1.49. To be read in conjunction with K1001, ignoring clauses 5.2, 5.8.	SECURITY	
	Specification	Valve
	RESTRICTED	UNCLASSIFIED ←

→ Indicates change

TYPE OF VALVE - Transmitting Triode

CATHODE - Directly Heated - thoriated tungsten

ENVELOPE - Metal - glass construction.

MARKING

K1001/4 and Serial Number

RATING		Note
Filament Current (A)	37.0	
Filament Voltage (V)	8.25	
Maximum Anode Dissipation (W)	750	A
Maximum Anode Voltage (kV)	23	
The valve is capable of operation at frequencies up to 100 Mc/s. and with suitable precautions up to 250 Mc/s.		
CAPACITANCES (pF)		
Cag	6.8	
Cgf	8.1	

DIMENSIONS AND CONNECTIONS

See page 3.

PACKING

See K1005 ←

NOTE

A. For this dissipation forced air cooling must be provided by at least 90 cu.ft. of air per minute with a pressure drop across the valve of the order of 2-inches of water.

CV1580

TESTS

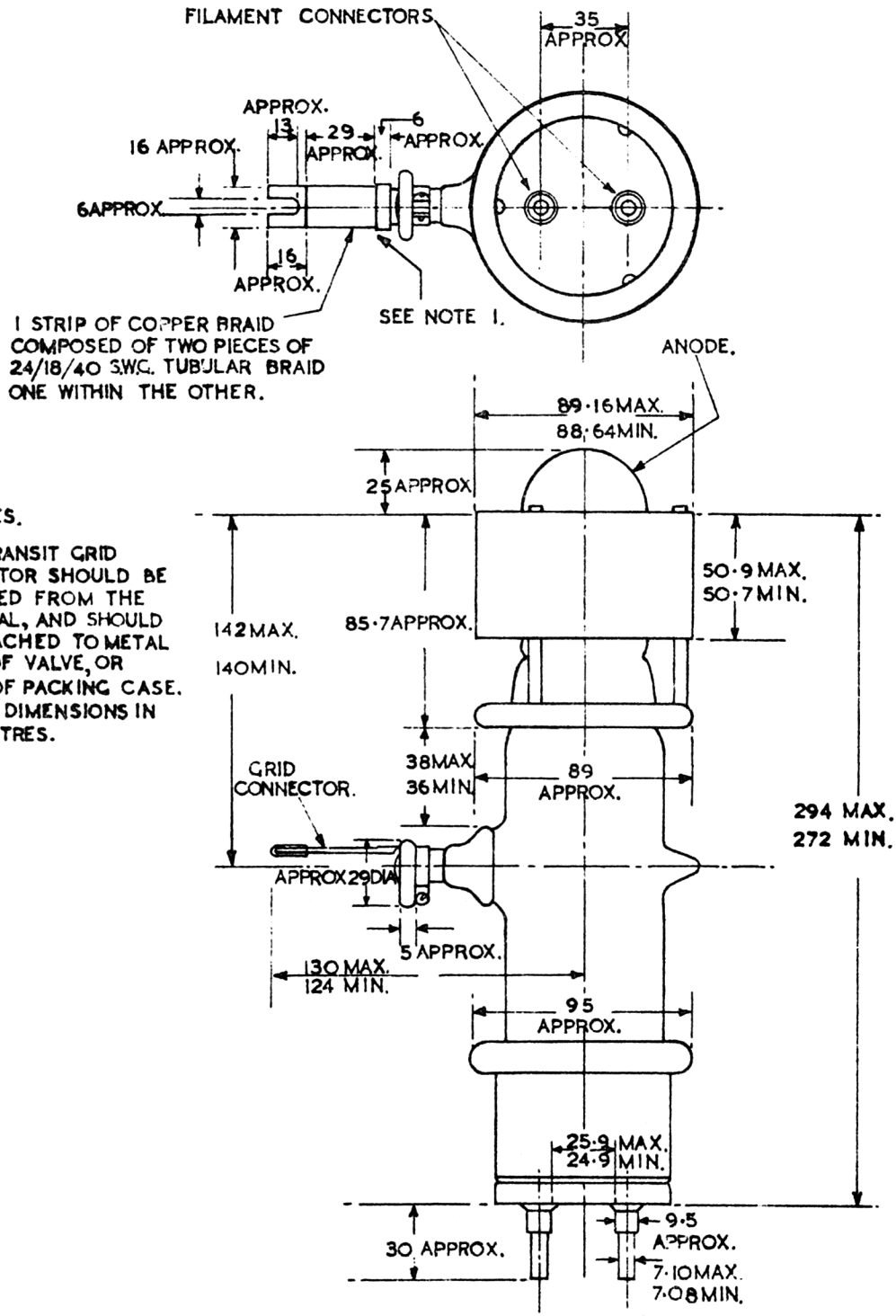
To be performed in the order specified and are additional to those applicable in K1001.

	Test Conditions				Test	Limits		% Tested	Note
	If(A)	Va	Vg	Ia(mA)		Min.	Max.		
For the following tests forced air cooling shall be provided by not more than 90 cu.ft. of air per minute with a pressure drop across the valve of the order of 2-inches of water.									
a	37.0	Raised slowly from 10kV. to 30kV. and maintained till flashing ceases	-	5.0 approx.	Hot Flash Process Va maintained at 30 kV. for a period of 5 mins. during which time the valve shall shown no signs of breakdown.			100%	1
b	37.0	0	0	-	Vf (V)	7.75	8.75	100%	
c	37.0	7000	-	100	Reverse Ig (mA)	-	1.0	100%	
d	37.0	7000 to 5000	-	Maintained at 100	Vg Change (V)	44	60	5% (4)	
e	37.0	275	275	-	Ic (A)	0.87	1.15	100%	
f	-	300	300	Ic=200	If (A)	-	23.5	100%	
g	37.0	7000	-	100	Reverse Ig (mA)	-	1.0	100%	
h	37.0	a and g strapped. Peak applied volts 6 kV. See K1001/AV			Ie (A)	35	-	2% (1)	
j	37.0	-	-800	1.0	Va (kV)	20	-	100%	
k					Capacitances (pF) 1. Cag 2. Cge	 5.1 6.9	 8.5 9.3	6 per week	

NOTE.

1. For test clause 'a' there shall be a 300Ω resistor in series with the applied volts, and a capacitance of not more than 0.25 μF. in parallel with the supply volts on the supply side of the resistor. Once the specified conditions have been met they need not be repeated for acceptance testing.

VT98 & VT98A



NOTES.

1. IN TRANSIT GRID CONNECTOR SHOULD BE DETACHED FROM THE GRID SEAL, AND SHOULD BE ATTACHED TO METAL WORK OF VALVE, OR INSIDE OF PACKING CASE.
2. ALL DIMENSIONS IN MILLIMETRES.