MINISTRY OF AIRCRAFT PRODUCTION DIRECTORATE OF COMMUNICATIONS DEVELOPMENT.

VALVE TYPE CV44.

Test Spec. No.	Date.	Associated Drawings.	Issued with:-		
D.C.D. W.T. 1310 Issue 2 D.I.S. No. 958.	9/4/42	W.T.26927	W.T. Board Specification K.1001, ignoring clauses 5.2, 5.8.		

TYPE OF VALVE: Tetrode. CATHODE: Indirectly heated. ENVELOPE: Metal-glass construction. COMMERCIAL PROTOTYPE: E.1155.	Marking. CV.44
RATING. Filament voltage (volts). Filament current (amps.) Maximum anode voltage (kV.) Maximum screen voltage (kV.) Maximum anode dissipation (watts). CAPACITANCES (AMF). Anode to all other electrodes Control widts all others	BASE. Dimensions:- See Fig. 7 Appendix I of K.1001. Connections:- See Drg. WT.26927 DIMENSIONS. See Drg. WT.26927 PACKING. See Clause 7.3 of K.1001.
Control grid to all other electrodes. Anode to control grid. NOTES. A. The filament voltage should always be run value of 8.0 volts.	

B. With assisted convection cooling.

->/Indicates a change.

NOTE: There may exist a later issue of the specification of which this page is a facsimile. Intending users of this valve should, therefore, consult the issuing Authority to ensure that they have the latest information.

TESTS.

Clause		Test Conditions.						Lim	Limits	
	v _f	v_{g1}	V _{g2}	ya.	Ig2	Ia	Test.	Min.	Max.	Tested
(a)	8.5			Raised slowly to 18kV and main- tained till flashing ceases.	-	1.O mA	Anode Hot Flash Process. Anode voltage to be maintained at 18 kV. for a period of one minute without further flashing See Note 1.			100%
(b)	8.5	-	raise to 3.	ed volts d slowly 5 kV. haintain-		Ig2 =	Grid Hot Flash Process. Anode voltage to be maintained at 3.5 kV. for a period of one minute without further flashing See Note 1.			100%
(c)	8.0	0	0	0	-	-	Filament current (amps.)	5.45	6.65	100%
(d)	8.0	Conditi	4000 appli	Strapped. Ia + Ig2 = 150 mA. applied.		Reverse Control Grid Current (uA) at end of 5 minute period.	-	150	100%	
(e)	8.0	Var- ied from -80 to 0	Strap Appl: volte	oped. led age ad- ed to cain ired	Ia + Ig2 = 100 mA.		Amplification Factor.	3•5	5•5	100%
(f)	8.0		2 kV	12 kV	-	1.0 mA.	Control grid voltage (volts)	-	-1100	See Note 2.
(g)	8.0	0	Straj See 1	oped.	~	-	Peak Emission (amps.)	12.0	•	100%
		See App	endix \	7. of K.1						

- Note 1:- Clauses (a) and (b) are to be applied before any of the other tests, and once the conditions specified have been met, the test conditions need not be repeated for acceptance testing. For these hot flash processes there shall be a 5000 ohm resistor in series with the applied volts, and a capacitance of 0.25 µF. in parallel with the supply volts on the supply side of the resistor.
- Note 2: This test shall be applied only to those valves whose amplification factor, as measured in test clause (e) is less than 4.5.
- Note 3:- Pulse of peak value 3 kV., half sine wave shape, duration 2 usecs. and recurrence frequency 50 c.p.s. to be applied.

 Specification No. D.C.D., W.T.1310

 CVI4/1/ii.