than 190 watts.

Some T

70 CV50.

MINISTRY OF AIRCRAFT PRODUCTION (D.C.D.	THE !	-	VALVE TYPE CV DO.
Test Specification No.	Date	To be read	d in conjunction with K1001.
D.C.D., W.T.1341 Issue No.2.	1st July, 1943		clauses :- 5.2, 5.8.
		nange	**************************************

ISSUE NO. Z.							
	-> Indicate	es a change.		/ Company			
TYPE OF VALVE :-	Transmitting Tetrode.			MARK ING CV50			
CATHODE :-	Directly Heated - Thoriated Tungster	1.					
ENVELOPE :-	Silica.	Serial No.					
		Note	DIMENSIONS AND CONTECTIONS See Fig. 1.				
Filament Voltage (V) Filament Current (A) Maximum Anode Dissipation (W)		10.7 69.0 200	A	FACKING according to clause 7.3 of K1001.			
	PACITANCES (OF.approx.)	1		NOTES A. With unrestricted air			
Ca-all Cg-all		27.5 30.0		circulation.			

o be performed in addition to those applicable in V4004

	,			To be per	formed in a	addition to those applicable in K100	1.		
	Test Conditions			itions	*****		Limits		No.
	٧f	Va	Vg2	Vg1	Ia + Ig2	Test	Min.	Max.	Tested.
a	10.7	0	0	0	0	Filament Current (A)	67.0	71.0	100%
ъ	10.7	1000	1000		200 mA	Reverse Control Grid Current (mA)	 -	1.0	100%
C	10.7	1000	1000		200 mA	Control Grid Voltage (V)	-70	-140	100%
đ	10.7	1000	1000	Adjusted	200 mA	Control Grid Voltage Change (V)	45	70	100%
		re- duced	re- duced	to main-					
		to 700.	to 700.	quired					
			10 ,00	Ia + Ig2		•	i		
е	-	300	300	300	Total	Filament Current (A)	-	50	100%
				·	Cathode Current	•			
					0.5 A.				
f	10.7	150	150	150	-	Total Cathode Current (A)	0.8	1.5	100%
g	10.7	Anode,		nd Control	Grid	Peak Cathode Current (A)	60		5% (4)
		Dools am	Strap		1.27				
				1ts = 6.0	an approved				
			metho	d.	ar approved				
h	See Appendix III of W.T. Loard		Direct Capacitances (pF.)			2% (1)			
		Specific	ation K1	001.		1. Anode to all other	20.0	33.0	
					` ·	electrodes. 2. Control grid to all	07.0	77.0	
				•		other electrodes.	23.0	37.0	
						3. Anode to control grid.	_	2.0	
Ĵ	Opera	tional T	est.						
	Th	e valves	shall b	e tested i	ndividuall	y in the power amplifier stage of a	transm	itter	100%

The valves shall be tested individually in the power amplifier stage of a transmitter type T.3018; the second valve in this stage during tests shall be one that is known to meet all specification requirements.

For the purpose of this test the transmitter shall be operated on the lower frequency band, with the recurrence frequency set to 50 c.p.s. and the pulse width adjusted to 15 micro-seconds on the modulator monitor. The 'anode voltmeter', which actually indicates the R.M.S. secondary voltage of the H.T. supply transformer, shall read between 14 kV. and 16 kV., and the screen voltage shall be not greater than 2.5 kV. Either strip lamps or carbon lamps constitute a suitable load, but the output matching must be adjusted for the particular type of lamp chosen. The setting up of the apparatus shall be approved by The Royal Aircraft Establishment, and thereafter no adjustment is to be made to the transmitter, when testing valves, other than the grid tuning adjustment. The anode heating of the valve under test shall be uniform, with entire absence of hot spots, and during the test the transmitter circuit breakers must not come out repeatedly. The mean power output of the transmitter shall be not less

