Undassh VALVE TYPE CV50 Page 1. (No. of pages :- 2) MINISTRY OF AIRCRAFT PRODUCTION (D.C.D.) To be read in conjunction with K1001, Test Specification No. Date ignoring clauses :- 5.2, 5.8. D.C.D., W.T. 1341 Issue No.2. 1st July, 1943 Indicates a change. MARKING Transmitting Tetrode. TYPE OF VALVE :-Directly Heated - Thoriated Tungsten. CV50 CATHODE :-Serial No. ENVELOPE :-Silica. DIMENSIONS AND CONTECTIONS RATING See Fig. 1. Note 10.7 Filament Voltage (V) Filament Current (A) PACKING according to clause 7.3 of 200 A Maximum Anode Dissipation (W) K1001. NOTES CAPACITANCES (pF.approx.) With unrestricted air circulation.

Ca-all Cg-all							27.5 30.0		circulation.			
TESTS												
	To be performed in addition to those applicable in K1001. Test Conditions Limits										No.	٦
-	۷f	Va.	Vg2	Vg1	Ia + Ig2	V 40 0	Test		Min.	Max.	Tested.	
a	10.7	0	0	0	0 /		ment Current (A)		67.0	71.0	100%	7
Ъ	10.7	1000	1000	-	200 mA	Reverse Con	trol Grid Current	(mA)	-	1.0	100%]
0	10.7	1000	1000	-	200 mA		Grid Voltage (V)		70	-140	100%]•
đ	10.7	1000 re-	1000 re-	Adjusted to main-	200 mA	Control Grid Voltage Change (V)			45	70	100%	-
		duced	duced	tain re-	1/1	17/						1
		to 700.	to 700.	quired Ia + Ig2/	MV	′/						
е	_	300	300	300 /	Total	File	ment Current (A)		-	50	100%	
					Cathode Current							
					0.5 A.							
f	10.7	150	150	1/50	-/		Cathode Current		0.8	1.5	100%	ᅪ
g	10.7	Anode,		nd/Contro	l Grj⁄d	Peak Cathode Current (A)			60	-	5% (4)	
	Strapped.										1	
	Peak applied volts = 6.0 kV. Test to be performed by an approved											1
	method.										-	
h	See Appendix III of W.T. Doard				1	Capacitances (pF	.)			2% (1)		
	Specification K1001.						ode to all other		20.0	33.0		1
	/ /						lectrodes. atrol grid to all		23.0	37.0		1
						0	ther electrodes.					
						3. An	ode to control gr	id.		2.0		4
j												1
	The valves shall be tested individually in the power amplifier stage of a transmitter										100%	١
	type T.3018; the second valve in this stage during tests shall be one that is known to meet all specification requirements.											١
	For the purpose of this test the transmitter shall be operated on the lower fre-											
	quency 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											1
	indicates the R.M.S. secondary voltage of the H.T. supply transformer, shall read be-											
	tween 14 kV, and 16 kV., and the screen voltage shall be not greater than 2.5 kV.											1
	Either strip lames or carbon lames 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 ad-											
	that ment 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											١
	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											- 1
		ome out 190 wat		ily. The	mean power	output of t	ne transmitter sn	all pe	mo re	33		
											CV50/2/	i.
											. ,	

