Page 1 (No. of pages:- 3) MINISTRY OF AIRCRAFT PRODUCTION (D.C.D.) VALVE ELECTRONIC

Specification MAP/CV178/Issue 3 SECURITY Dated 11.1.46. Specification Valve To be read in conjunction with K. 1001, ignoring clauses: - 5.2, 5.8, 7.2.

-Indicates a change

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TYPE OF VALVE - Triode oscil CATHODE - Indirectly h ENVELOPE - Metal-glass PROTOTYPE - E.1458.	<u>MARKING</u> See K1CO1/4			
RATING Heater Voltage (V)	6 .3- 7 . 0	Note A	BASE None	
Heater Current (A) Max. Continuous Anode Dissipation (W) Max. Anode Dissipation for	2.7 50	В,С	DIMENSIONS AND CONNECTIONS See drawing on page 3.	
short periods (W) Max. H.T. Voltage under Pulse Modulation Conditions (kV) Max. Continuous Anode	150 4•75	В, D	See drawing on page 7.	
Voltage (V) Amplification Factor Min. Operating Wavelength(cms) (a) Pulse Applications	25			
(b) C.W. Applications Continuous C.W.Output Power (W/pair)	50 1 5	E		
CAPACITANCES (pF) Cag Cgc	4•5 4•5			
Cac	2.0	l		

NOTES

- A:- The heater volts should be operated as little above 6.3%. as possible.
- B:- The temperature of the anode and grid seals must be kept below 140°C.

- C:- Forced air cooling is necessary, a flow of 4 cu.ft/min. being recommended. The pressure drop is of the order of 1.5" of water.
- D:- An air flow of 15-20 cu.ft/min. with a pressure drop of 3"-4" of water is necessary.
- E:- Under conditions of sustained oscillation with H-T voltage of 500V.

Posta		70	TESTS	STS rag				•					
TESTS rage 2. To be performed in addition to those applicable in K1001													
	Test Conditions				Limit			No.					
	٧h	₹	Va	Ia(mA)			Min.	Max.	Tested	Note			
a	7.0	0	0	0	Ih	(A)	2.4	3.0	100%				
b	7.0		700	70	Vg	(v)	- 8	-23	100%				
O	7.0	-	700	70	Reverse 1. Gas	,	1	10	100%	1			
					2. Grid and/or	emission leak	-	100	100%				
đ	7.0	-	1000	70	Vg chang test (b)		7	17	100%				
9	7.0	1000	1000	-	Peak Ic	(A)	10	-	100%	2			
f	See K1001/AIII		CAPACITANCES (pF)										
					1. Cag 2. Cgc 3. Cac		3.0	6.0 6.0 3.5	т. А.				
ı	NYAMEG												

NOTES 1:- Grid current (gas) is measured as the immediate decrease in the reverse

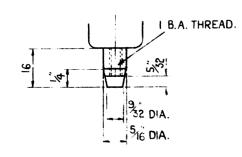
grid current when the negative grid voltage is rapidly increased to cut off anode current. Should the pressure of unsaturated grid

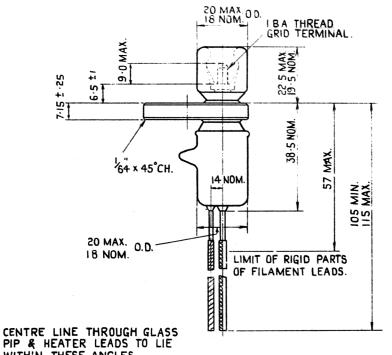
emission make this measurement in test (c.1.) impossible the test may

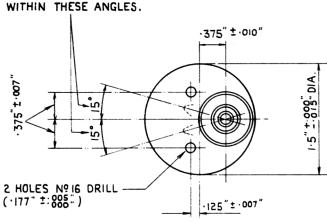
- be considered to be fulfilled if no trace of gas is evident in test(e). 2:- Emission current measured under pulse conditions, with pulse length = 2/usecs., P.R.F. = 50 /sec., and pulse shape simusoidal.

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MAXIMUM OUTSIDE DIMENSIONS
OF GRID CONNECTION.
VALVE TO TAKE AN APPROVED
JIG COMPRISING THIS GRID
CONNECTION AND A SEATING
BLOCK FOR THE ANODE.







ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED