

MINISTRY OF SUPPLY (S.R.D.E.)

Specification MOS/CV1363/Issue 6 Dated:- 15.12.47 To be read in conjunction with K1001, ignoring clauses:- 5.2, 5.8.	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Restricted

—→ indicates a change

<u>TYPE OF VALVE:-</u> Transmitting triode <u>CATHODE:-</u> Directly heated <u>ENVELOPE:-</u> Glass - unmetallised <u>PROTOTYPE:-</u> DET16			<u>MARKING</u> See K1001/4		
<u>RATING</u>		Note	<u>BASE</u> T4		
Filament voltage (V) 10.0 Filament current (A) 5.5 Max. anode voltage (V) 3000 Max. anode dissipation (W) 200 Mutual conductance (mA/V) 4.9 (min) Anode impedance (ohms) 11,500			A	A	T.C.
			Pin	Electrode	
			1	Control grid	
			2	Filament	
			3	No connection	
			4	Filament	
			T.C.	Anode	
<u>NOTES</u>			<u>DIMENSIONS</u>		
A. Measured at $V_a = 3000$, $V_g = -27$			See K1001/AI/D1		
			Dimension	Min.	Max.
			A mm	-	24.6
			B mm	-	65

To be performed in addition to those applicable in K1001

	Test Conditions				Test	Limits		No. tested
	V _f	V _a	V _g	I _a (mA)		Min.	Max.	
a	10.0	-	-	-	I _f (A)	5.0	6.0	100%
b	Read	1000	-	10	V _f (V)	-	5.0	100%
c	10.0	3000	adjust	67	Dissipation and Rev. I _g Total I _g (uA) True backlash current (uA) (Note 1)	-	7.0 4.0	100%
d	Test given in clause b to be repeated							100%
e	10.0	3000	Read	67	V _{g1} (V)	-23	-31	100%
f	10.0	3000	+ 5V from that obtained in clause e		g _m (mA/V)	4.9	-	100%

NOTES

1. Valve to be run for 10 minutes, grid voltage and grid current to be recorded at 2 minute intervals; after the first 2 minutes the grid voltage shall not vary by more than + 1 volt.