MINISTRY OF SUFFLY - D.L.R.D.(A)/R.A.E.

Specification MOS(A)/CV.476	SECURITY			
Issue 1 Dated 30-11-55	Specification Valve			
To be read in conjunction with BS.1409 and K1001	UNCLASSIFIED UNCLASSIFIED			

TYPE OF VALVE - Low Microphony Pentode CATHODE - Indirectly Heated ENVELOPE - Glass, unmetallised FROTOTYPE - CV.472 Mod.	MARKING K1001/4 BASE B8D CONNECTIONS					
RATING	Note	Pin Electrode				
Heater Voltage Heater Current Max. Anode Voltage (Ia = 0) Max. Screen Voltage (Ig2 = 0) Max. Anode Dissipation Max. Screen Dissipation Max. Operating Anode Voltage Max. Operating Screen Voltage Max. Cathode Current Max. Heater Cathode Voltage D.C. or A.C. r.m.s. Mutual Conductance Anode Impedance (V) Max. Cathode Current (mA) Max. Heater Cathode Voltage (V) Mutual Conductance (MA/V)	6.3 200 350 350 0.4 190 190 12 100 3.1 180	A A A A A B B	2 3 4 5 6 7 8 See dr	DIMENSIONS awing on p ions(mm)	g3 h a g2 h k a	Max.
CAPACITANCES (pr) C in (nom.) C out (nom.) Ca,g1 (max.)	3•6 4•2 0•3	000	<u>M</u> CU.	B NTING POS	9.3	10.16

NOTES

- A. Absolute Value.
- B. Measured at Va = Vg2 = 100V; Vg1 = -1.4V. (Ia = 7.0mA; Ig2 = 2.4mA.)
- C. Measured with a close fitting metal screen.

CV476

To be performed in addition to those applicable in K.1001.

	Test Conditions					Test		Lim Min.	its Max.	No. Tested	Note		
	See K.1001/AIII			Capacitances	(pF)								
	Link to H.			Links to L.P.		Links to E.						6	
	1		2, 7,	3, 5, 6 sh.	,		4, 8	C in		3.0 2.9	4.6		
a	4,	8		3, 5, 6	,		1	C out		3=4 3-5	5.0 5-3	per	
	1			4, 8			3, 5, 6, sh.	Ca,g1		1	0.3	week	
	٧h	٧	a.	Vg2	y,	g1	Ia						
Ъ	6,3		0	0		0	0	Ih	(mA)	180	220	100% or S	
С	6,3	10	0	100		-	7.0 mA	Vg1	(v)	- 0.8	-2.0	100%	
đ	6.3	10	0	100		-	7.0 mA	gn.	(mA/V)	2•4	3.8	1 00%	
е	6.3	10	0	100		-	7.0 mA	Ig2	(mA)	1,8	3.0	100%	
f	6.3	10	0	100			7.0 mA	Reverse Igi	(µA)	-	0.5	100%	
g	6,3	542 N 40		100		-10	-	Ia	(µA)	-	50	100%	1
h	6+3	-		-		-		Microphony	(V)	-	3. 5	100%	2

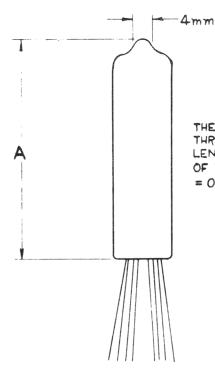
notes

1. with an anode supply writing of 100V applied change

to a 1.0 MO protective resistance in series with meter.

Test in JAN type gear Va = 100V; RL = 220 kΩ; Rg2 = 870 kΩ; Rg1 = 100Ω; Rk = 2.2 kΩ shunted with 100 μF capacitor. g2 decoupled by 0.1 μF capacitor to earth.

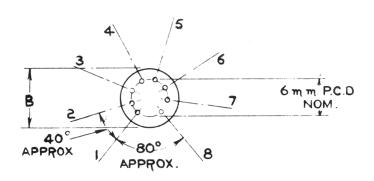
Amplifier sensitivity 20 mV input for 50 mW (3.5 V) output. Valve to be tapped slightly with a mallet consisting of a 1 inch cork mounted on one end of a fibre rod 7 inches long, 3/16 inches diameter. The output meter shall not give kicks above 3.5 volts (50 mW), and there shall not be any continuous howls from the loudspeaker.



BULB STRAIGHTNESS TEST

THE FINISHED VALVE MUST PASS THROUGH A CYLINDRICAL GAUGE OF LENGTH AT LEAST EQUAL TO THAT OF THE BULB. I.D.OF CYLINDER = 0.4 INCH.

THE LEADS SHALL BE FLEXIBLE 25-27 S.W.G., TINNED WIRE AT LEAST 38 mm. IN LENGTH



ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION CV.476

ISSUE 1 DATED 4.11.55

AMENDMENT No.1.

Page 1

Dimensions Table

Amend the table to read as follows:

Dimensions	Min.	Max.			
A m.m.	-	38.00			
B m, m,	9.3	10.16			

T.V.C. Office for

Director,
Royal Aircraft Establishment.

April, 1957.

N.87689/R

VAAS

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION CV. 476

ISSUE 1 DATED 30.11.55

AMENDMENT NO. 2

Page 2

Test "g". Ia

Under "Va" column delete 100V and substitute "See Note 1".

Amend Note 1 to read:

With an anode supply voltage of 100V applied through a 1 M Ω protective resistance to the anode.

Director,
Royal Aircraft Establishment.

6th August, 1957. N. 5054/R



Electronic Valve Specification

Specification CV 476

Issue 1 dated 30.11.55

Amendment 3

Page 2 Test (a) Capacitances

Amend the Capacitance limits to read as follows:-

Cin Min. 3.0 pF Max. 4.6 pF Cout Min. 3.5 pF Max. 5.3 pF

N. 5315R

P.T.O.

TA

NOTE

After "Test in JAN type gear" insert "(see K1006 Clause 4.10.3.3. and its Amendments.)"

20th September, 1957.

T.V.C. for Director Royal Aircraft Establishment