

CV474

Specification MOS(A)CV.474 Issue 3 Dated 4.11.55 To be read in conjunction with BS.1409 and K.1001 excluding clauses: 5.2; 5.8	<div style="text-align: center;"><u>SECURITY</u></div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <u>Specification</u> UNCLASSIFIED         </div> <div style="width: 45%;"> <u>Valve</u> UNCLASSIFIED         </div> </div>
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—————→ Indicates a change

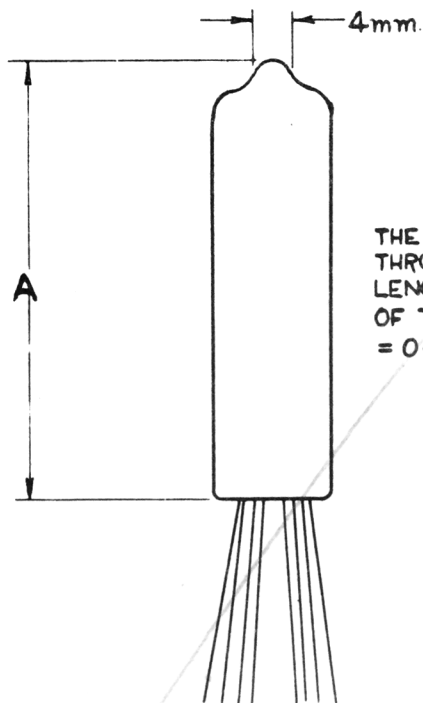
TYPE OF VALVE - Gas-filled Tetrode				<u>MARKING</u>			
CATHODE - Indirectly Heated				See K.1001/4			
ENVELOPE - Glass, unmetallised				CV number, T.A. letters,			
PROTOTYPE - VX.9012, 8033				Factory and Date code,			
				only required.			
<u>RATINGS</u>				<u>BASE</u>			
				B.8.D.			
				<u>CONNECTIONS</u>			
				Note			
				Pin			
				Electrode			
Heater Voltage (V) 6.3				A			
Heater Current (mA) 150				D			
Max. Peak Anode Voltage (V) 500				D			
Max. Working P.I.V. (V) 500				D			
Max. Peak Anode Current (mA) 100				D			
Max. Mean Anode Current (mA) 20				D			
Max. Peak Heater/Cathode Voltage (V) 100				B, D			
Max. Peak Heater/Cathode Voltage (V) 25				C, D			
Max. Control Grid Resistance (MΩ) 10				D			
				<u>DIMENSIONS</u>			
				See Drawing on Page 3.			
				Dimension			
				Min.			
				Max.			
				A mm.			
				B mm.			
				9.3			
				38			
				10.16			
				<u>MOUNTING POSITION</u>			
				Any			
<u>NOTES</u>							
A. Minimum cathode heating time = 10 seconds.							
B. Heater negative with respect to cathode.							
C. Heater positive with respect to cathode.							
D. Absolute Value.							

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

Test Conditions				Test	Limits		No. Tested	Note
Vh	Va(b)	Vg2	Vg1		Min.	Max.		
a 6.3	0	0	0	Ih (mA)	135	165	100%	
b 6.3	350 V. A.C. 50 c/s rms.  Rg1 = 0.1 M $\Omega$ ; RL = 50 k $\Omega$ . Vg1 increased in +ve direction until valve conducts	0	Sufficiently negative to prevent conduction	Vg1 (V)	-1.5	-4.0	100%	1
c 6.3	350 V. A.C. 50 c/s rms.  Rg1 = 10 M $\Omega$ ; RL = 50 k $\Omega$ Vg1 as in test "b".	0	As in test "b"	Vg1 (V)	-	-5.0	100%	1
d 6.3	V.D.C. increase until valve conducts	0	Rg1 = 0.1 M $\Omega$ RL = 50 k $\Omega$	Va (V)	-	28	100%	1
e 6.3	As in test "d"	0	Rg1 = 10 M $\Omega$ RL = 50 k $\Omega$	Va (V)	-	39	5 per week	1
f 6.3	V.D.C. to give Ia = 20 mA.  Rg1 = 0.1 M $\Omega$ ; RL = 50 k $\Omega$ .	0	0	Voltage drop across Valve (V)	-	15	100%	1
g 5.5	As in test "f"  Rg1 = 0.1 M $\Omega$ ; RL = 50 k $\Omega$	0	0	Voltage drop across Valve (V)	-	16	100%	1
h	See K.1001/5.3			hk Leakage current ( $\mu$ A)	-	20	100%	

NOTE

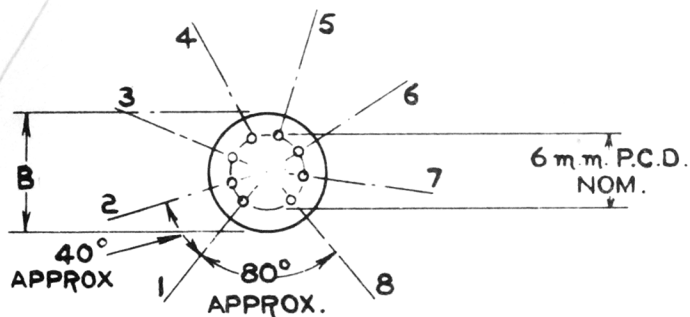
1. Pins 2, 4 and 8 connected to Pin 5.



### 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 38mm. IN LENGTH.



ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION CV.474.

ISSUE 3 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