

ELECTRONIC VALVE SPECIFICATIONS.
SPECIFICATION AD/CV5962 ISSUE 1. Dated 5.11.1962.
AMENDMENT NO. 1.

Page 1. Note A.

Amend this note to read as follows:-

The anode seal temperature must not exceed 140°C . The rate of change of anode seal temperature must be limited by a mass of metal of not less than 2 oz. of brass, or its equivalent, in close thermal contact with the anode disc.

October, 1963

T.V.C. for
A.S.W.E.

N.204702

Specification AD/CV5962 Issue 1 dated 5.11.1962 To be read in conjunction with K1001 excluding Clause 5.3	<u>SECURITY</u>	
	<u>Specification</u> Unclassified	<u>Valve</u> Unclassified

<u>TYPE OF VALVE:</u> Disc Seal Triode <u>CATHODE:</u> Indirectly heated <u>ENVELOPE:</u> Glass <u>PROTOTYPE:</u> CV273	<u>MARKING</u> See K1001/4
--	-------------------------------

<u>RATINGS</u> (All limiting values are absolute)	<u>DIMENSIONS AND CONNECTIONS</u> See drawings on pages 3 and 4.	
	Note	
Heater Voltage (V)	6.3	
Heater Current (A)	0.4	
Max. Anode Voltage (V)	350	
Max. Anode Dissipation (W)	10	A
Max. Mean Anode Current (mA)	50	B
Max. Peak Anode Current (mA)	150	B
Amplification Factor	30	C
Mutual Conductance (mA/V)	6	C
Efficiency at Wavelength of 30 cms.	28%	
Efficiency at Wavelength of 10 cms.	5%	
<u>CAPACITANCES (pF)</u>		
C _{ag}	1.1	
C _{out} (Max.)	0.03	
C _{in}	2.0	

NOTES

- A. The anode seal temperature must not exceed 140°C. In order to achieve this and also not to limit the rate of change of anode seal temperature it is necessary that the mass of metal in close thermal contact with the anode disc shall not be less than 2 oz. (approximately 60 grams) of brass, or its equivalent.
- B. Under C.W. conditions.
- C. With $V_a = 250V$, $I_a = 20$ mA
- D. The Joint Services Catalogue Number is:- 5960-99-037-3167

TESTS

To be performed in addition to those applicable in K1001.

Tests are to be performed in the specified order unless otherwise agreed with the Inspecting Authority.

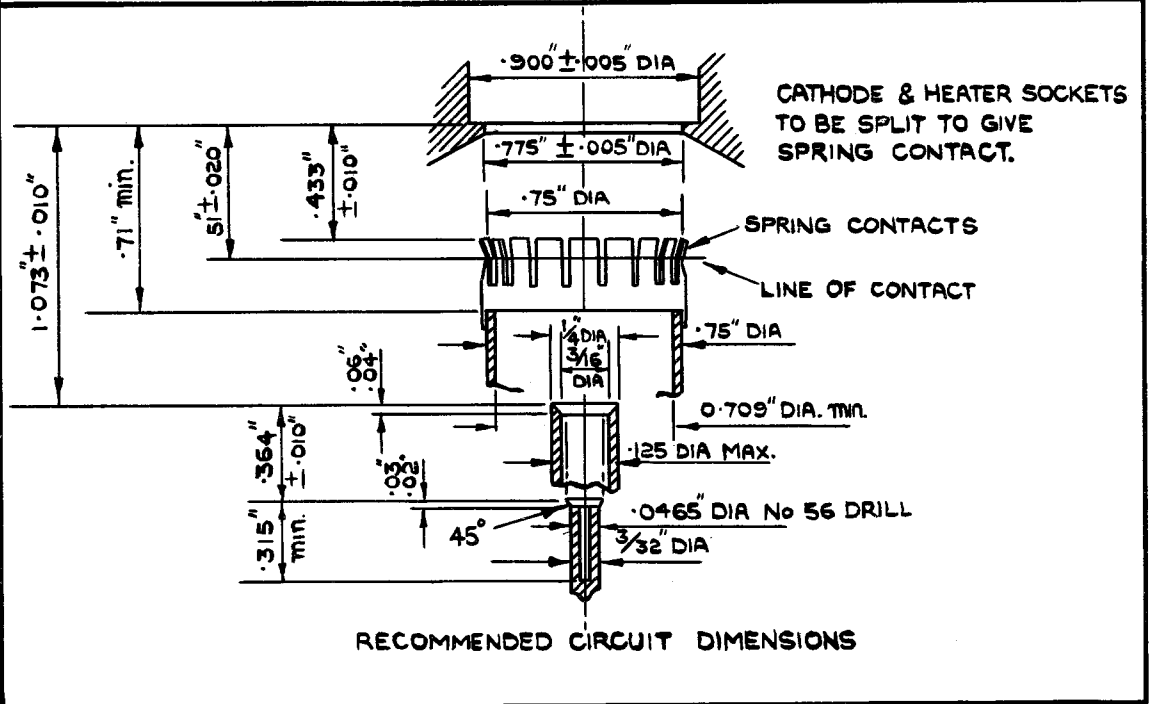
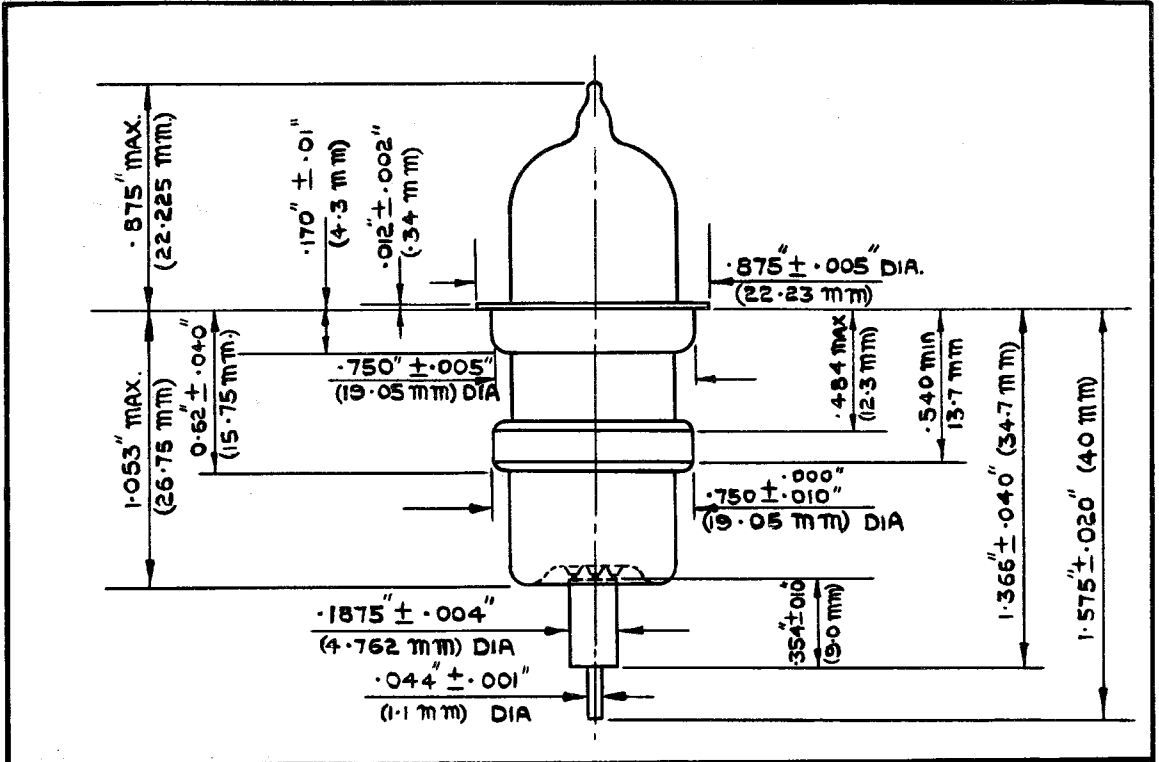
Test conditions - unless otherwise stated:-

V_h (V)	V_g (V)	V_a (V)
6.3	Adjust	250

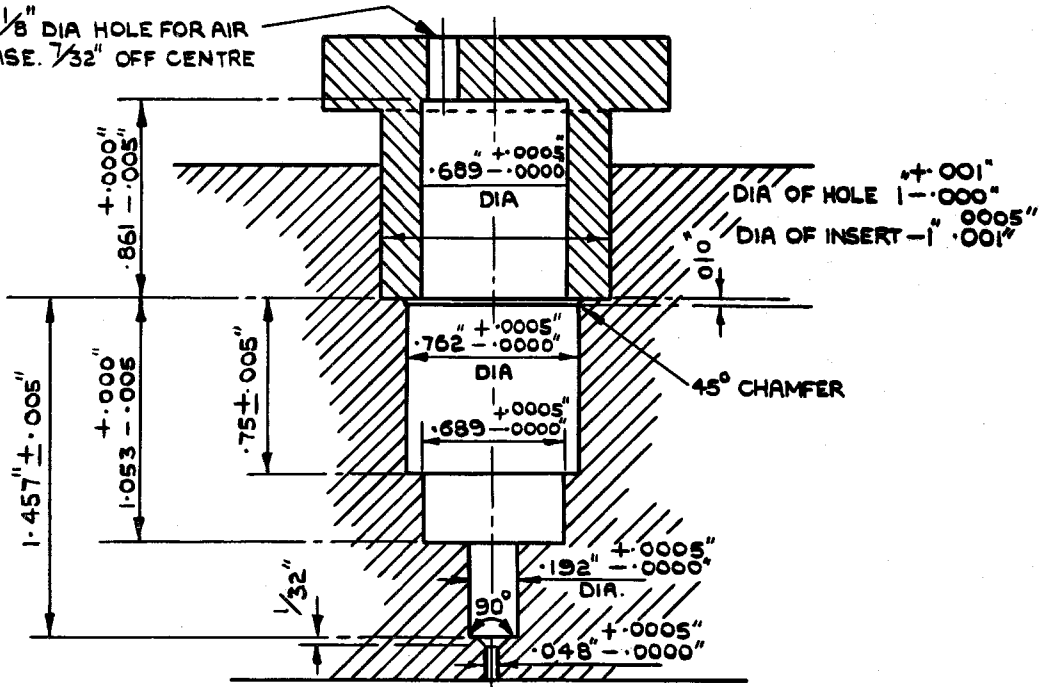
	Test	Test Conditions	AQL %	Insp. Level	Sym- bol	LIMITS		Units
						Min.	Max.	
a	<u>Capacitances</u>	See K1001/5A.13 or Measurements shall be made on a 1 Mc/s bridge using a jig which shall conform to R.A.E. drawing No. W.T.40482	6.5	IC	C_{ag} C_{out} C_{in}	0.7 - 1.4	1.4 0.03 2.4	pF pF pF
b	Heater Current	No voltages	1.5	II	I_h	0.37	0.43	A
c	Reverse Grid Current (1)	$V_a = 350V$ $I_a = 30 \text{ mA}$ Note 2		100%	I_g	-	1.0	μA
d	Reverse Grid Current (2)	$V_a = 350V$ $I_a = 2 \text{ mA}$		100%	I_g	-	1.0	μA
e	Negative Grid Voltage (1) (Value to be noted)	$I_a = 40 \text{ mA}$		100%	$-V_g$	3.0	8.0	V
f	Mutual Conductance	$V_g = \text{as in test (e)}$ above peak grid swing $\pm 0.5V$ max.		100%	g_m	4.5	-	mA/V
g	Negative Grid Voltage (2)	$I_a = 2 \text{ mA}$		100%	$-V_g$	-	15.0	V

NOTES

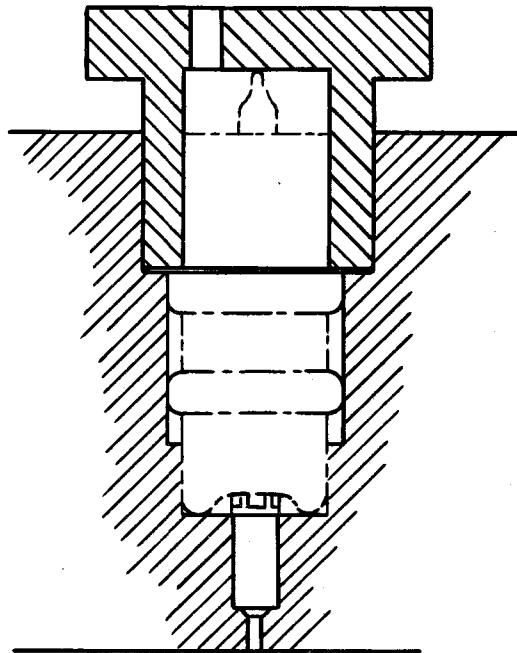
1. Measured C_{in} may be up to 3.2 pF provided the measured conductance lies between 0.6 and 2.0 micro-mhos.
2. Valve must be run for one minute before reading is taken.



DRILL $\frac{1}{8}$ " DIA HOLE FOR AIR
RELEASE. $\frac{7}{32}$ " OFF CENTRE



SECTION ON ϕ OF GAUGE



SECTION ON ϕ OF GAUGE
SHOWING VALVE IN POSITION