

MINISTRY OF SUPPLY (D.L.R.D.(A)/R.A.E.)

Specification MOSA/CVX2207 Issue 3 Dated 21.6.54 To be read in conjunction with K.1001 ignoring clause: 5.3.	<table border="1"> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <th><u>Specification</u></th><th><u>Valve</u></th></tr> <tr> <td>UNCLASSIFIED</td><td>UNCLASSIFIED</td></tr> </table>	<u>SECURITY</u>		<u>Specification</u>	<u>Valve</u>	UNCLASSIFIED	UNCLASSIFIED
<u>SECURITY</u>							
<u>Specification</u>	<u>Valve</u>						
UNCLASSIFIED	UNCLASSIFIED						

→ Indicates a change

TYPE OF VALVE - Disc Seal Triode			<u>MARKING</u> See K.1001/4 except that the title shall be CVX.2207 and the Type Approval letter omitted.	
CATHODE - Indirectly Heated				
ENVELOPE - Glass			<u>DIMENSIONS AND CONNECTIONS</u> See drawing on Pages 3 and 4	
PROTOTYPE - VX.3147				
<u>RATING</u>			<u>Note</u> A B B C C	
Heater Voltage	(V)	6.3		
Heater Current	(A)	0.4		
Max. Anode Voltage	(V)	350		
Max. Anode Dissipation	(W)	10		
Max. Mean Anode Current	(mA)	50		
Max. Peak Anode Current	(mA)	150		
Amplification Factor		30		
Mutual Conductance	(mA/V)	6		
Efficiency at wavelength of 30 cms.		30%		
Efficiency at wavelength of 17 cms.		10%		
<u>CAPACITANCES (pF) (Nominal)</u>				
C _{ag}		1.55		
C _{ae}		0.075		
C _{ge}		2.1		

NOTES

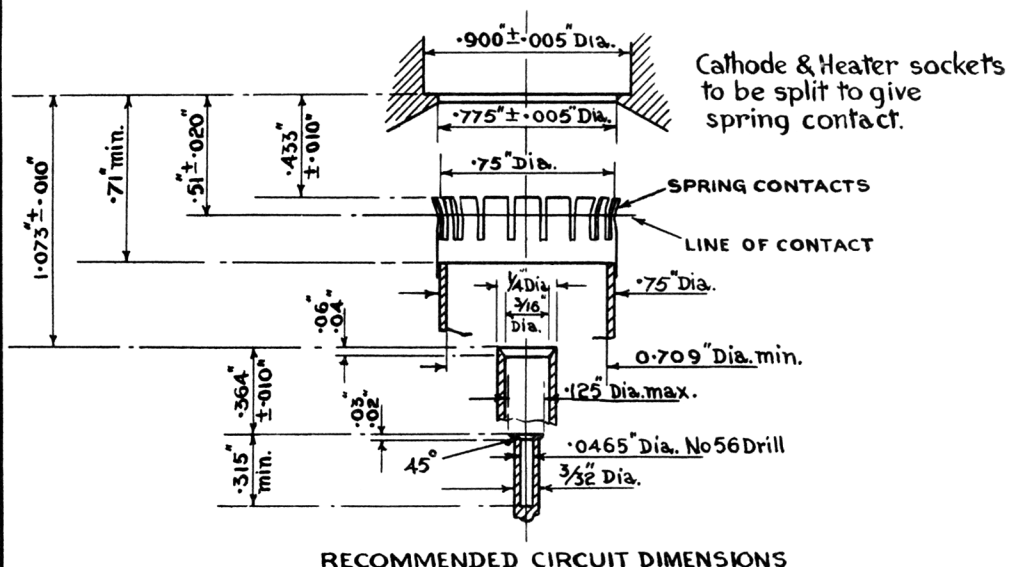
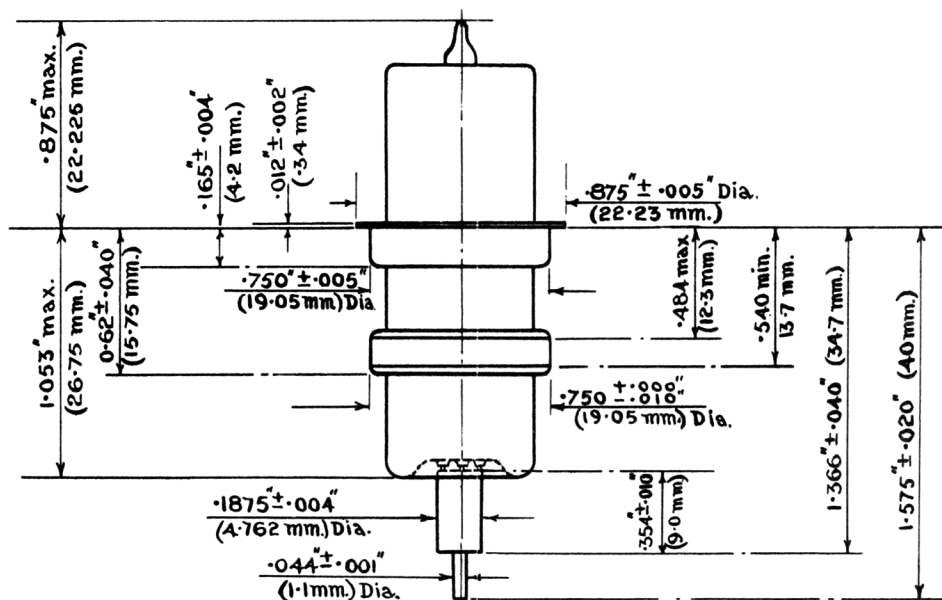
- A. The anode seal temperature must not exceed 140°C. In order to achieve this and also to limit the rate of change of anode seal temperature it is necessary that the mass of metal in close thermal contact with the anode disc shall not be less than 2 oz. (approx. 60 grams) of brass, or its equivalent.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

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

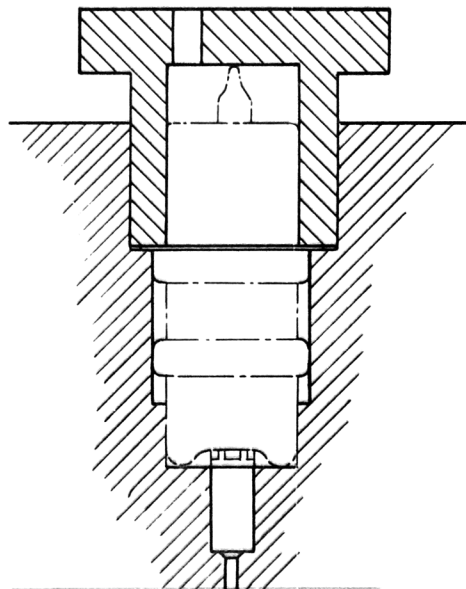
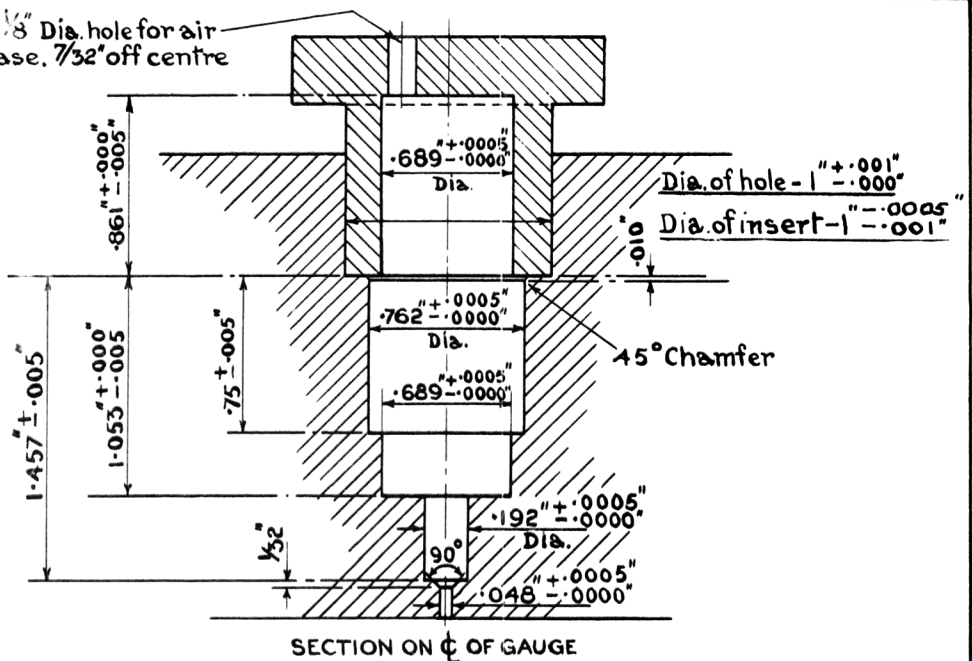
	Test Conditions				Test	Limits		No. Tested	Note
						Min.	Max.		
a	Measurement to be made at a frequency of 1.0 Mc/s.				Capacitances (pF) Cag Cae Cge	1.15 .065 1.7	1.85 .085 2.5	6 per week 100% 6 per week	
b	Vh	Va	Ia (mA)	Vg	Ih (A)	0.37	0.43	100% or S	
	6.3	0	0	0					
c	6.3	350	30	Adjust	Reverse Ig (μ A)	-	1.0	100%	1
d	6.3	350	2	Adjust	Reverse Ig (μ A)	-	1.0	100%	1
e	6.3	250	20	Adjust	Vg (to be noted) (V)	-	-1	100%	
f	6.3	250	-	As in test (e) Peak grid swing ± 0.5 V. max.	gm (mA/V)	3.0	-	100%	
g	6.3	250	2	Adjust	Vg (V)	-	-15	100%	
h	6.3	100	-	+2	Ig (mA)	1.0	12	100%	

NOTE

1. 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 C OF GAUGE
SHOWING VALVE IN POSITION