

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

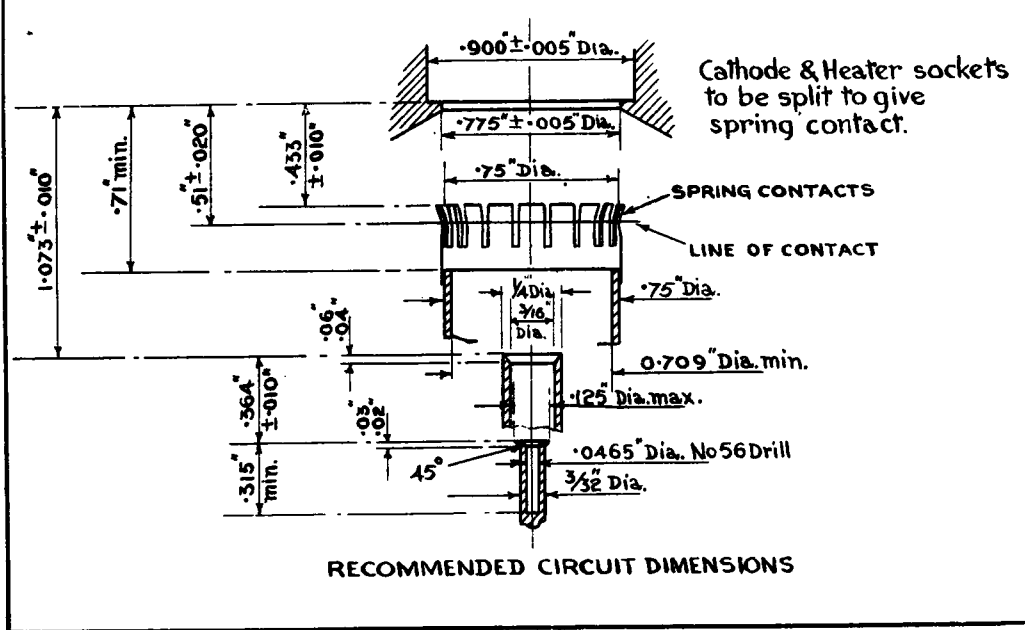
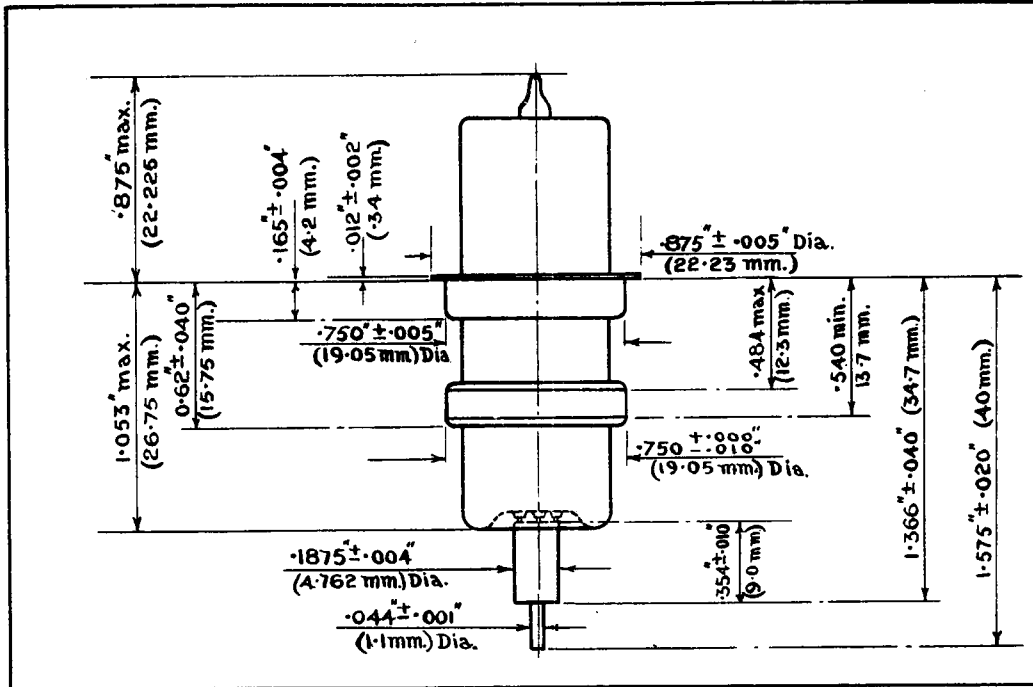
Specification MOSA/CVX2207 Issue 3 Dated 21.6.54 To be read in conjunction with K.1001 ignoring clause: 5.3.	<u>SECURITY</u>	
	<u>Specification</u>	<u>Valve</u>
	UNCLASSIFIED	UNCLASSIFIED

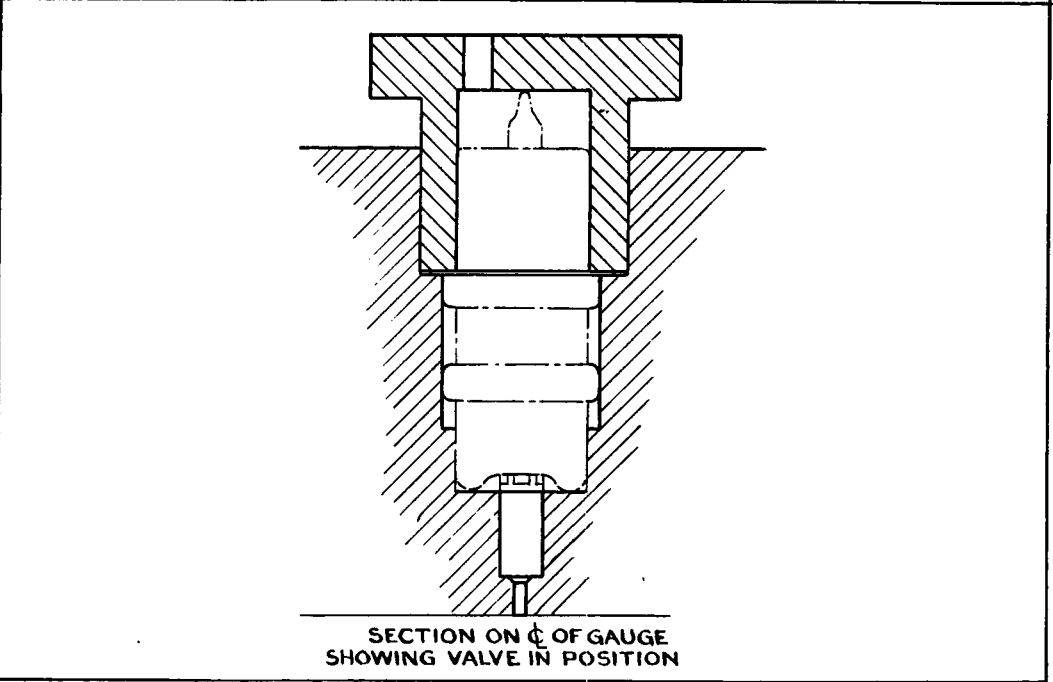
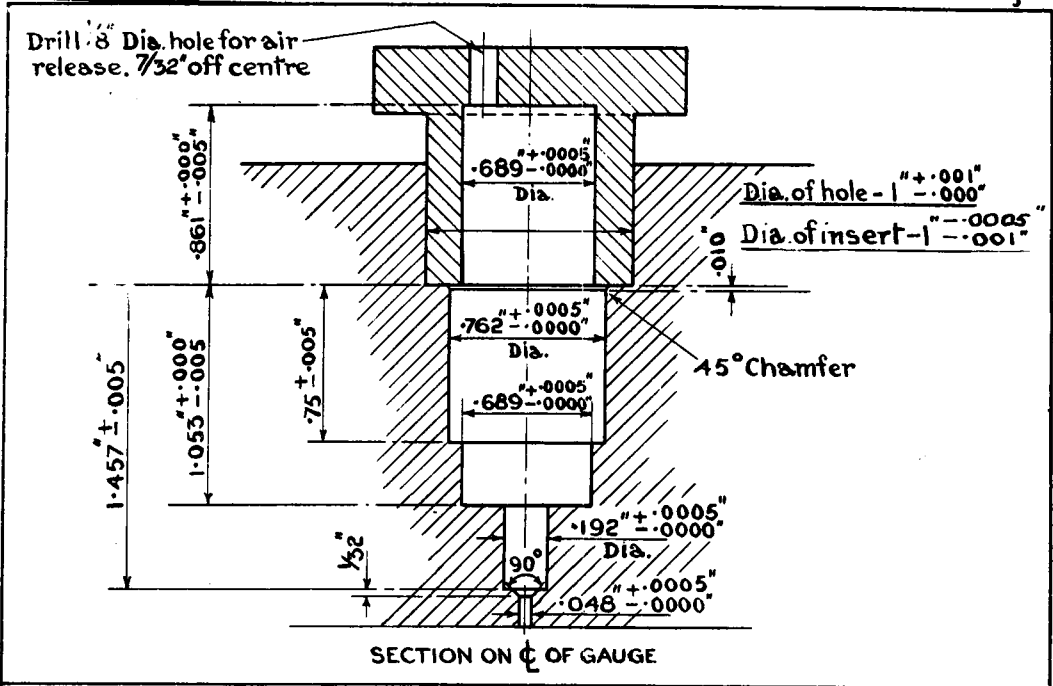
→ Indicates a change

TYPE OF VALVE - Disc Seal Triode CATHODE - Indirectly Heated ENVELOPE - Glass PROTOTYPE - VL.314.7		<u>MARKING</u> See K.1001/4 except that the title shall be CVX.2207 and the Type Approval letter omitted.
		<u>DIMENSIONS AND CONNECTIONS</u> See drawing on Pages 3 and 4
<u>RATING</u>		
		<u>Note</u>
Heater Voltage (V)	6.3	
Heater Current (A)	0.4	
Max. Anode Voltage (V)	350	A
Max. Anode Dissipation (W)	10	B
Max. Mean Anode Current (mA)	50	B
Max. Peak Anode Current (mA)	150	C
Amplification Factor	30	C
Mutual Conductance (mA/V)	6	C
Efficiency at wavelength of 30 cms.	30%	
Efficiency at wavelength of 17 cms.	10%	
<u>CAPACITANCES (pF) (Nominal)</u>		
C _{ag}	1.55	
C _{as}	0.075	
C _{gs}	2.1	
<u>NOTES</u>		
<p>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.</p> <p>B. Under C.W. conditions.</p> <p>C. With V_a = 250 V., I_a = 20 mA.</p>		

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.				<u>Capacitances (pF)</u> C _{ag} C _{ae} C _{ge}	1.15 .065 1.7	1.85 .085 2.5	6 per week 100% 6 per week	
b	V _h	V _a	I _a (mA)	V _g	I _h (A)	0.37	0.43	100% or S	
	6.3	0	0	0					
c	6.3	350	30	Adjust	Reverse I _g (μA)	-	1.0	100%	1
d	6.3	350	2	Adjust	Reverse I _g (μA)	-	1.0	100%	1
e	6.3	250	20	Adjust	V _g (to be noted) (V)	-	-1	100%	
f	6.3	250	-	As in test (e) Peak grid swing ± 0.5 V. max.	g _m (mA/V)	3.0	-	100%	
g	6.3	250	2	Adjust	V _g (V)	-	-15	100%	
h	6.3	100	-	+2	I _g (mA)	1.0	12	100%	
<u>NOTE</u>									
1. Valve must be run for one minute before reading is taken.									





CVX. 2207/3/4