Specification MOSA/CV2201

Issue 3. Dated 20.9.54

To be read in conjunction with BS 1409 and K1001

SECURITY

Specification
UNCLASSIFIED
UNCLASSIFIED

UNCLASSIFIED

Indicates a change

TYPE OF VALVE - Disc Seal Triode Oscillator CATHODE - Indirectly Heated ENVELOPE - Glass PROTOTYPE - VX. 3103	MARKING See K1001/4			
RATING		Note	DIMENSIONS AND CONNECTIONS	
Heater Voltage Heater Current Max. Pulse Anode Voltage Max. Anode Dissipation Max. Mean Anode Current During Pulse Amplification Factor Mitual Conductance  Mitual Conductance  At 1000 Mc/s At 1200 Mc/s At 1750 Mc/s	6.3 2.0 4.5 10 4.0 28 12 40% 35% 15%	A B,C D E E	See drawing on Pages 3, 4 and 5.	*
CAPACITANCES (pF) C in (nom) C out (nom) Ca, g1 (nom)	4•3 1•5 5•5	4 4		

## NOTES

- A. For the above ratings the heater voltage should be kept at 6.3 V + 5%.
- B. Absolute maximum values.
- C. The valve has been designed for use under pulse conditions with Anode Modulation, the applied pulses not exceeding 3.0  $\mu$  sec. duration.
- D. The temperature of the disc at the anode seal must not exceed 100°C. To limit the rate of change of anode seal temperature the mass of metal in close thermal contact with the anode disc must be not less than 4 ozs., unless forced air cooling is used, when some decrease may be permitted.
- E. Measured at Va = 300 V; Ia = 50 mA.
- F. Measured at a frequency of 1.0 Mc/s.

CV2201/3/1

Z.8922.R.

CV2201

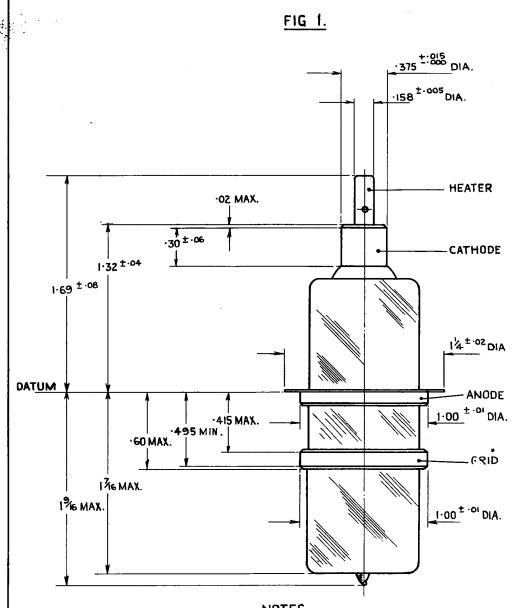
To be performed in addition to those applicable in K.1001

Test Conditions		Test		<b>Limits</b>		No.	Note			
		SSU GOINT			1000		Min.	Max.	Tested	2.000
а	a Measurement to be made at a frequency of 1 Mc/s		CAPACTTANCES (pF) C in C out Ca, g1		3.4 0.5 4.5	5•2 2•5 6•5	100% 100% 100%			
	Vh	۷g	Va	Ia mA						
ъ	6.3	0	0	0	Ih	(A)	1.9	2.1	100%	1
o	6.3	Adjust	300	50	Vg	(A)	†	<b>-</b> 9	100%	1
đ	6.3	Adjust	300	50	Reverse Ig	(μA <b>)</b>	-	5	100%	1
е	6.3	Adjust	250	50	Vg change from value obtained in (c)	(v)	1.4	2.1	100%	1
f	6•3	Adjust Peak gri + 0.5 vo		50	gm·	(mA/V)	9	-	100%	1
g	6.3	Adjust	300	2	Vg	(v)	-	-30	100%	1
h	6.3	Peak app 500V. To	nd grid s plied vol p = 2 μ s nape simp p/s	tage sec.	Peak Emission	(A)	15	-	100%	1

## NOTES

1. For these tests the precautions in note (D) on Page 1 shall be observed.

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NOTES

ALL EXTERNAL CONTACT SURFACES TO BE RHODIUM PLATED.

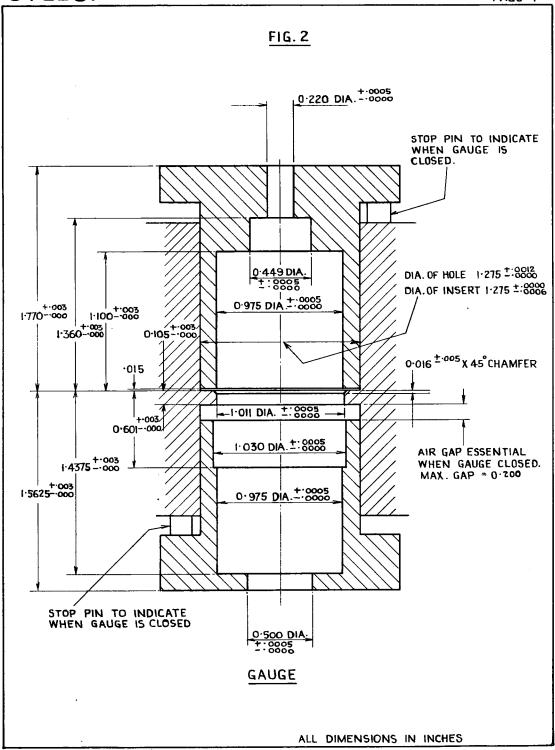
RIGID CONNECTION TO BE MADE TO ANODE ONLY.

THE FINISHED VALVE WILL BE EXAMINED FOR ALIGNMENT OF ANODE, GRID,

CATHODE, AND HEATER CONTACTS BY MEANS OF THE GAUGE SHOWN ON PAGE 4.

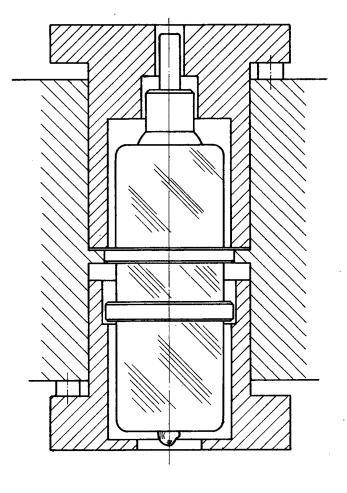
ALL DIMENSIONS ARE IN INCHES.

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CV 2201 3 4

FIG 3.



SHOWING VALVE IN POSITION

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