

Specification MAP/CV92/Issue 4. Dated 18.1.50. To be read in conjunction with K1001 ignoring clause:- 5.2.	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> UNCLASSIFIED

→ Indicates a change

<u>TYPE OF VALVE</u> - Triode with forced air-cooled anode. <u>CATHODE</u> - Indirectly heated, oxide coated. <u>ENVELOPE</u> - Metal glass construction.	<u>MARKING</u> See K1001/4.
	<u>PACKING</u> See K1005
	<u>BASE</u> None

<u>RATING</u>	Note	<u>DIMENSIONS and CONNECTIONS</u>
Heater Voltage (v) 6.0		See drawing on page 3
Heater Current (A) 6.5		
Max. Peak Anode Voltage (kV) 8.0	A	
Max. Anode Dissipation (W) 150	B	
Amplification Factor 22	C	
Average Grid Voltage (v) -31		
Efficiency of pair of Valves at Wavelengths of Operation of 50 cms. 40%		
Absolute Min. Wavelength of Operation (cms) 40		
<u>CAPACITANCES (pf)</u>		
Cag 8.0		
Cge 11.0		
Cae 2.25		

NOTES

- A - The valve shall be processed so that it will withstand H.T. switching in two stages, viz:- first to half Va then to full Va, when operated in a push-pull oscillator circuit modulated by a pulse of length 1.0 μ .sec., with repetition frequency 500 per sec. and with Va not greater than 8.0 (KV).
- B - During testing and operation the air-cooled surface of the anode must be maintained below 140°C. A blast of air blown on to the anode diffuser at the rate of at least 5 cu. ft./min. and on to the grid seal at the rate of approx. 1 cu.ft./min. is suggested.
- C:- At Va = 1kV, Ia = 100 mA.

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tes- Noted
	Vf	Va	Ia(mA)		Min.	Max.	
a	6.0	0	0	Ih(A) (A)	5.85	7.15	100%
b	6.0	1000	100	Vg (V)	-19.0	-43.0	100%
c	6.0	1000	100	Reverse Ig (gas) (μ A)	-	10	100% 1
d	6.0	1000	100	Reverse Ig (Emission Current) (mA)	-	10	100% 1
e	6.0	500	100	1. Vg 2. Change in Vg from value noted in (b).	Must not be positive		100% 100%
f	6.0	Anode and grid strapped Peak applied voltage 1.5 kV. tp = 2 μ secs. PRF = 50/sec. Pulse shape sinusoidal		Peak emission (A)	40	-	100%
g	Measured using adaptor Type 111 Ref. 10A/19297 See K1001/A.III						
	Links to H.P.	Links to L.P.	Links to E	<u>CAPACITANCES (pF)</u>			
	2	3	1,4,5,6 7,8,9,10 TC1, TC2	Cag	6.0	10.0	T.A.
	3	1	2,4,5,6 7,8,9,10 TC1, TC2	Cge	8.25	13.75	
	2	1	3,4,5,6 7,8,9,10 TC1, TC2	Cae	1.5	3.0	

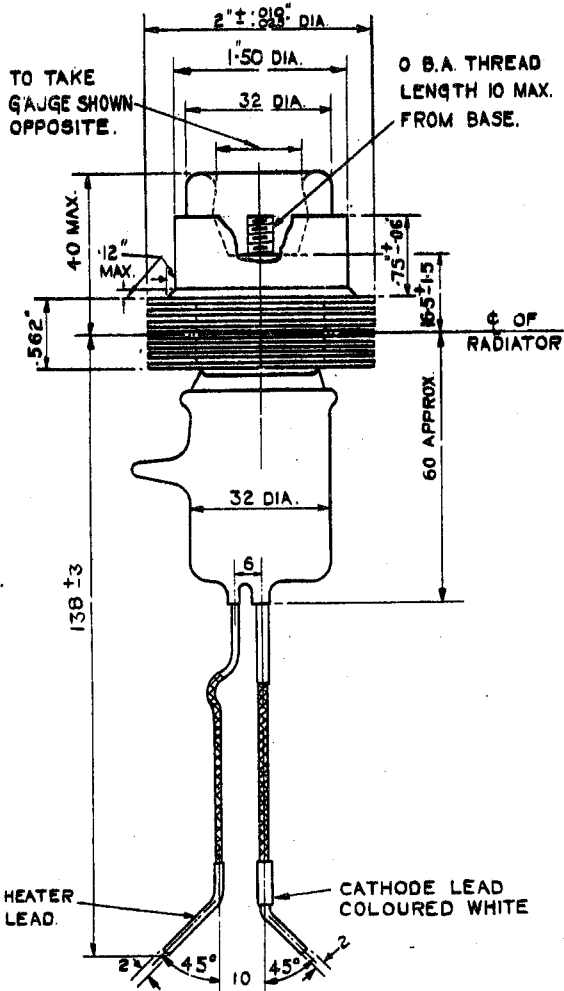
Note

- The gas component of the negative Ig can be taken as the immediate decrease in negative current when Vg is rapidly increased to cut-off value. The presence of unsaturated grid emission may render test "c" impossible.

CORONA RING GAUGES

GO' RING GAUGE
1.51" DIA.

NO GO' RING GAUGE
1.49" DIA.

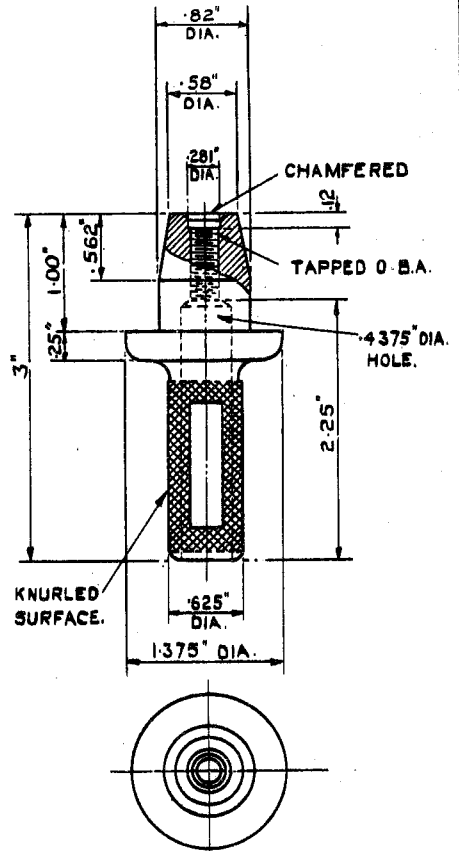


HEATER LEAD.

CATHODE LEAD COLOURED WHITE

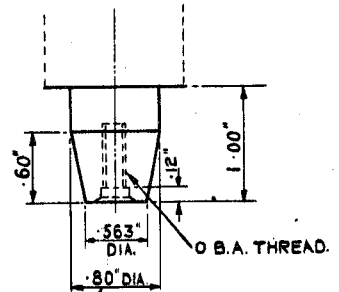
NOTE - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

GRID SEAL GAUGE



MAT - BRASS OR MILD STEEL.
TAKEN FROM DRG. OF A.S.E. GAUGE NO 32302

MAXIMUM OUTSIDE DIMENSIONS OF SUITABLE GRID CONNECTORS.



WHEREVER POSSIBLE KEEP THIS DIMENSION DOWN TO .75" DIA.