



Triode Type CAM3

MODULATING VALVE

General. A water-cooled triode fitted with a tungsten filament.

Cooling. The anode forms part of the valve envelope and is designed for cooling by water circulated in direct contact with the anode. The rated flow should not be less than 4 gallons per minute. The temperature of the cooling water at the outlet must not exceed 65°C (150°F). The cooling supply must be started before the application of any supply voltages.

Filament Starting. The filament current must never exceed 105A at any time during the switching-on period.

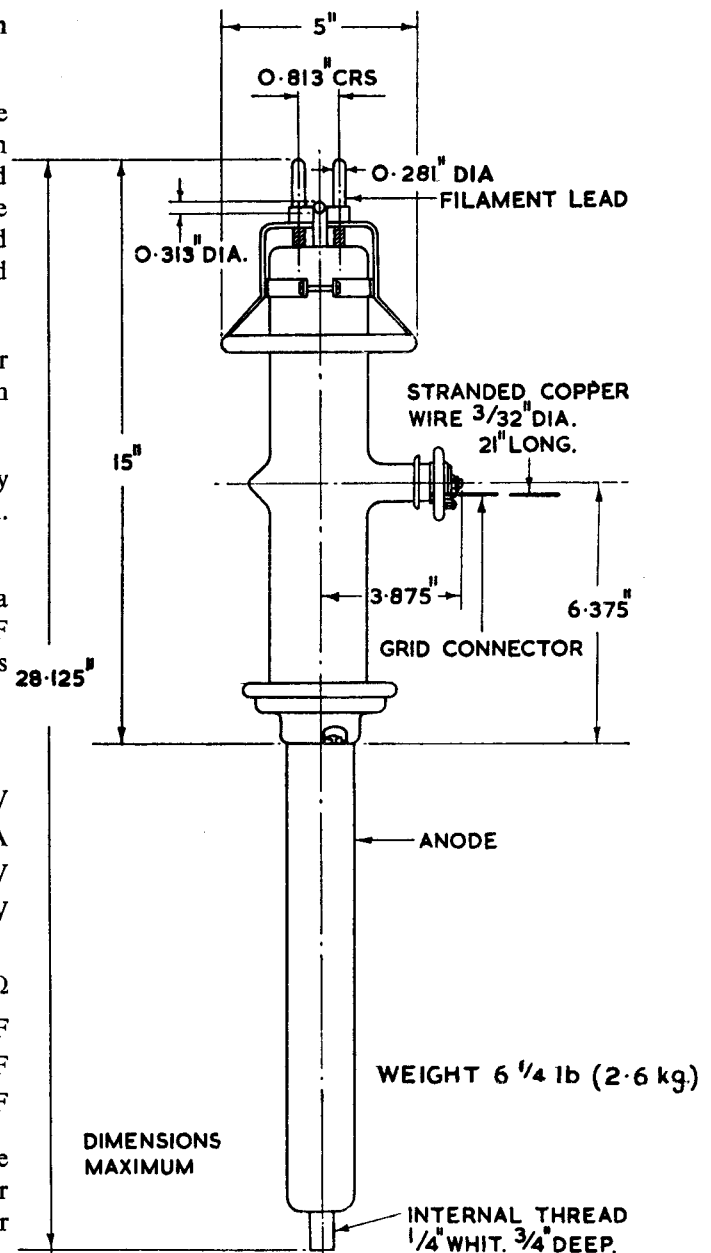
Mounting. The valve must be completely supported by its water jacket with its axis in a vertical position. Rigid connections must be made to anode only.

Operation. The valve is specially designed for use as a modulator, but may also be used as a modulated HF amplifier. When operated under amplifier conditions the maximum anode voltage is 10 kV.

APPROXIMATE DATA

| | | |
|-------------|---|---|
| V_f | 17 | V |
| I_f | 70 | A |
| V_a (max) | 12 | kV |
| p_a (max) | 12 | kW |
| μ | taken at V_a 11 kV, V_{g1} -1,500 V | $\left\{ \begin{array}{l} 6.4 \\ 1,200 \end{array} \right.$ |
| r_a | | |
| C_{a-g1} | 25.5 | pF |
| C_{a-k} | 2.6 | pF |
| C_{g1-k} | 26.8 | pF |

Each valve is marked with filament voltages to give 3A and 7A emission at 90% saturation. The lower value of marked voltage relates to modulator operation.

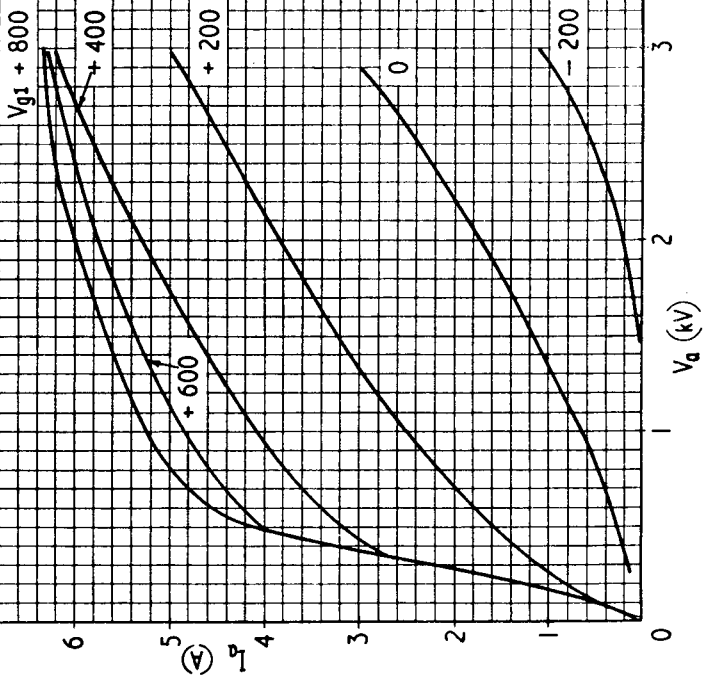


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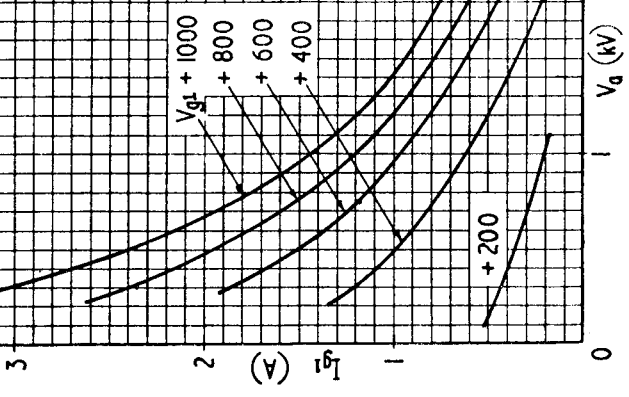
CAM 3

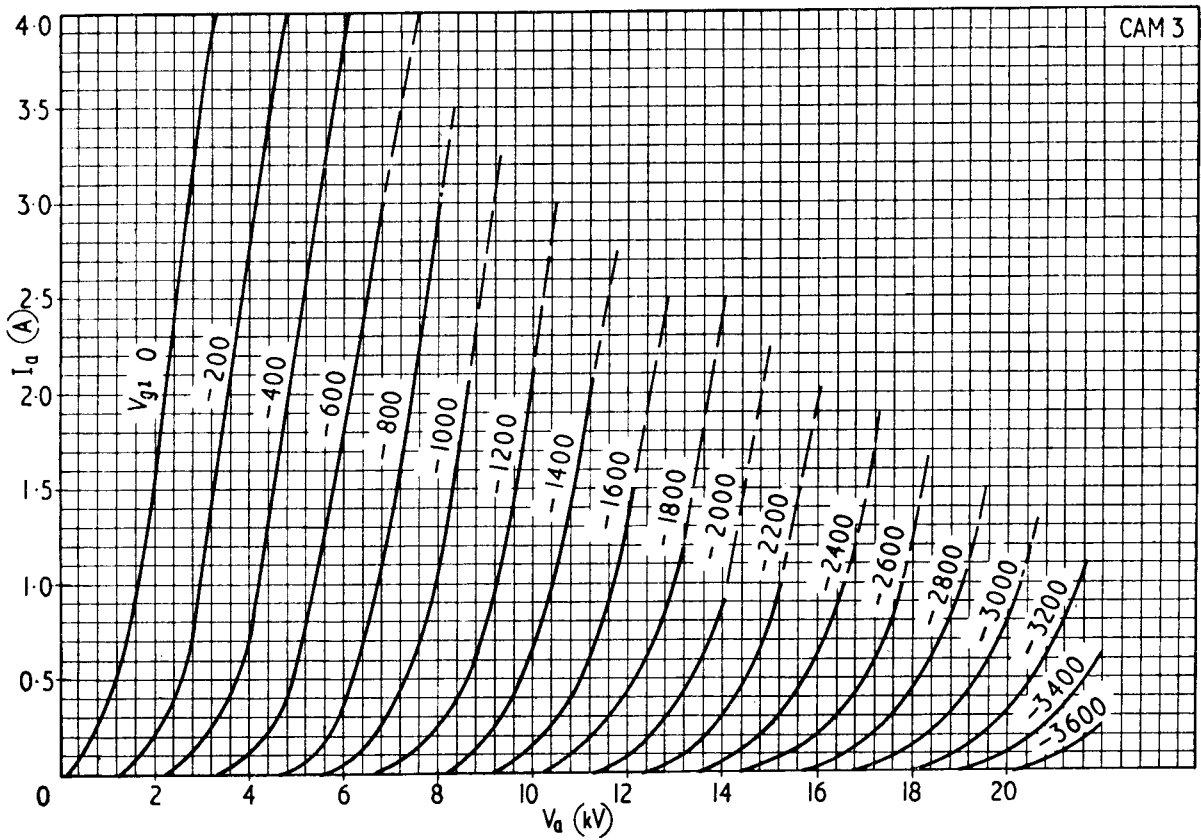
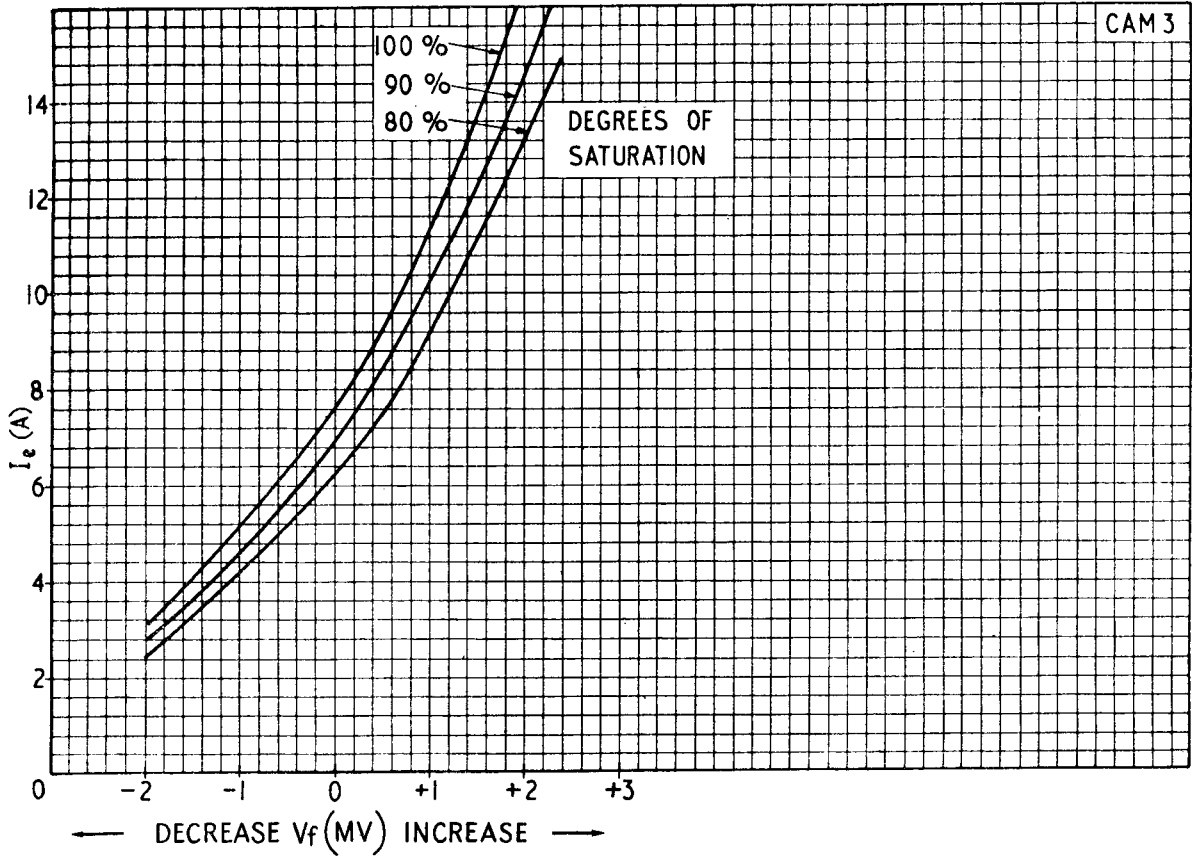
V_f MV



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V_f MV







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