

Central

ELECTRONIC MFRS. DENVILLE, N.J.
DIVISION OF NUCLEAR CORP. OF AMERICA

IONIZATION
GAUGE TUBE
VGIA

IONIZATION GAUGE TUBE VGIA

DESCRIPTION

Ionization gauge tube VGIA is a triode that utilizes positive ion current for sensing purposes. It is connected into a vacuum system and is capable of measuring pressures between the regions of 10^{-3} mm Hg. and 10^{-9} mm Hg. A spiral grid structure accessible at both ends for out-gassing with current of 7 amperes facilitates the removal of gases from the elements of the gauge tube. The collector is a platinum deposit on the inside of the glass bulb that only requires heating with a torch for out-gassing.

SPECIFICATIONS

Any type of tubulation is available upon request. Stock tubulations are:

- VGIA/1 — 24/40 inner joint
- VGIA/2 — 3/4" O. D. open tubulation
- VGIA/3 — 1/2" O. D. open tubulation
- VGIA/4 — 3/8" O. D. open tubulation

Sensitivity under normal conditions - approximately 100 microamperes per micron of gas pressure.

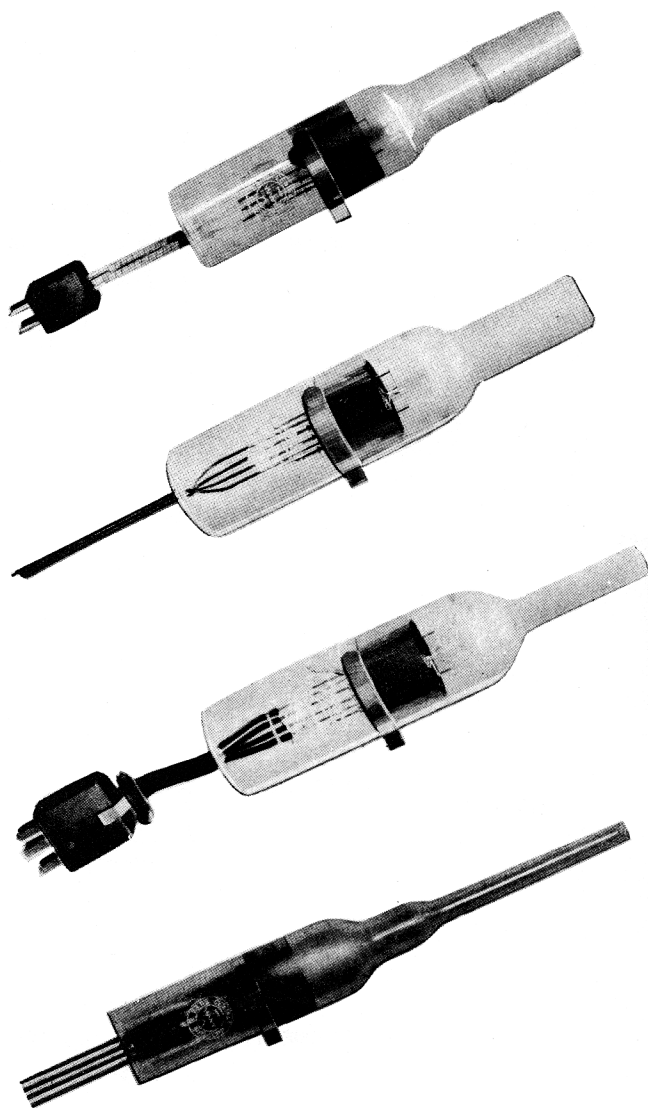
TYPICAL CHARACTERISTICS

$E_p = 25V$ $E_g = 120V$ $I_g = 5.0 \text{ ma}$
 $E_f = 3.0 - 7.5V$ $I_f = 3.5 - 5a$

Construction, standard pyrex glass.

SPECIAL GAUGES

Our engineering staff is available to design and custom-produce specialized ionization gauges to meet your particular operating requirements. Jones plugs (4 or 6 prong) are available to your specifications.



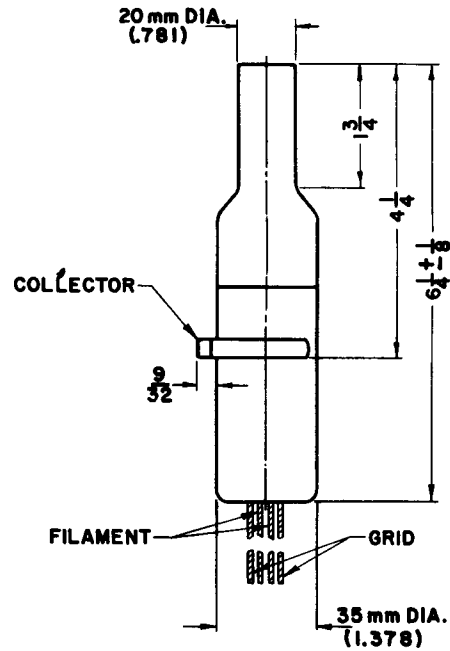
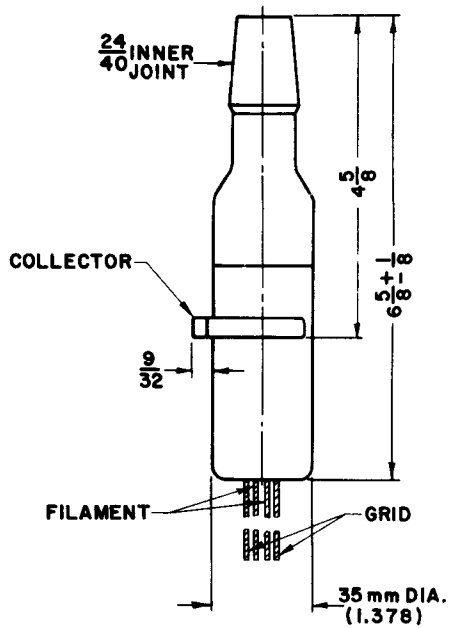
MANUFACTURERS OF HERMETICALLY SEALED EVACUATED DEVICES, HIGH VACUUM ELECTRONIC EQUIPMENT AND SYSTEMS

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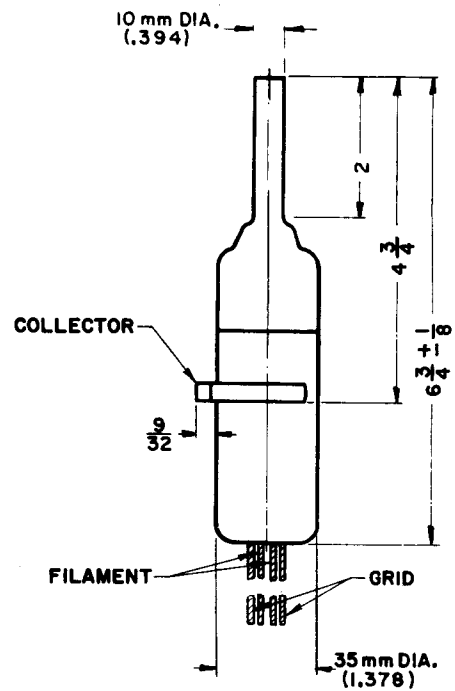
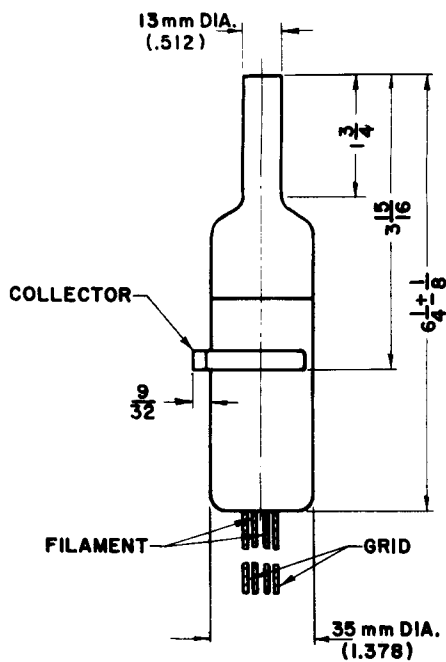
IONIZATION
GAUGE TUBE
VGIA

VGIA/1



VGIA/2

VGIA/3



VGIA/4