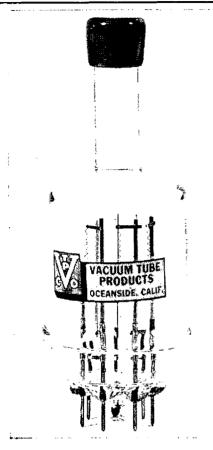


PRODUCT DATA SHEET



VTP-7170 — VTP Ionization Gauge Tube

The VTP-7170 Ionization Gauge Tube is an all glass gauge tube designed for the maximum of reliability and reproduction of accurate readings. This tube type is externally similar to the VTP Type 7169 and differs only in the grid structure installed. The VTP-7170 is of all glass construction and may be attached to all glass vacuum systems by direct glass sealing or to either glass or metal vacuum systems by means of a port couple.

The VTP-7170 employs a grid surrounding the collector. The design of this grid structure is such that it can be easily outgassed by means of D.C. bombardment when connected to gauge controls designed for this method of element outgassing. The VTP-7170 is provided with three separately connected filaments providing the maximum in gauge reliability when used on large systems and where a shutdown for gauge tube replacement is costly.

GENERAL CHARACTERISTICS

Filaments (use filaments individually for maximum	life)Three.
Filament Voltage (single filament)	5.0 Max. Volts
Filament Current	5.0 Max, Amps
Grid Voltage (Referenced to Filament)	500 Max. Volts
Grid Current (Emission Current)	40 Max. Ma.
Grid Power (Dissipation for outgassing)	20 Max.Watts
Collector Voltage (referenced to filament)	500 Max. Volts
Collector CurrentVaries	
	with grid current.
When Filament is hot do not exceed following	g pressures.

Base	· · · · · · · · · · · · · · · · · · ·		Medium	Mou	ulded f	lare Septar	7 pir	n-RETMA	E7-2
						5		7	
	Element	F1F2	Fl	G	C	G	F3	F2F3	
Mounting (Mechanical)							ouple	or glass	seal
Mountin	g Position								Any
Bulb and Tubulation GlassNonex—Corning									
TYPICAL OPERATION									

TYPICAL OPERATION

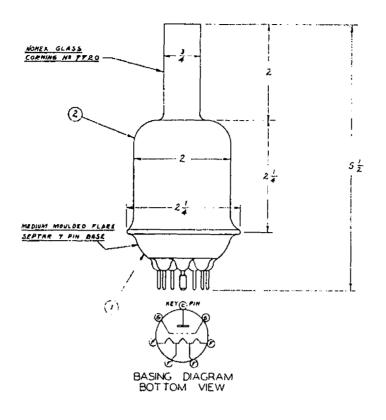
GRID OUTGASSING OPERATION: Apply positive 400 Volts to Grid, with negative to filament. Adjust Filament Voltage to approx. 4.25 Volts or to allow 35 Ma of Grid Current to flow. Continue bombarding until the pressure reading measured is stable.

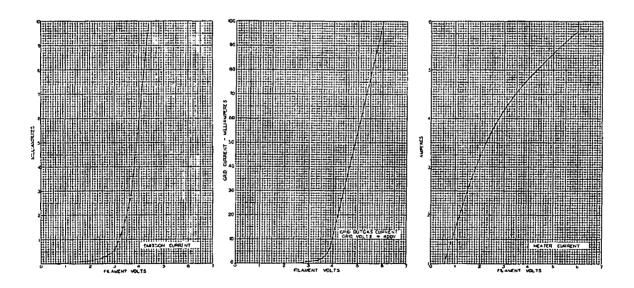


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