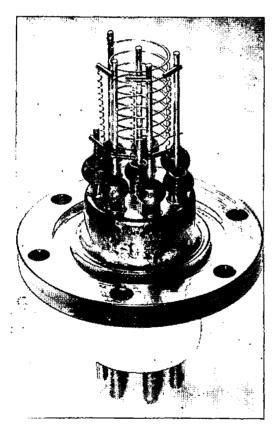
VACUUM TUBE PRODUCTS

VTP IONIZATION GAUGE TUBE TYPE 6578

The VTP 6578 lonization Gauge Tube is the ultimate in reliability and accuracy for measuring vacuum in large metal systems. The inherent design incorporating the use of pure metals, accurate electrode positioning and freedom from connecting tube restrictions allow a precise measurement of low pressures. By utilizing a design with the grid surrounding the collector, the absolute minimum of errors in gas pressure are obtained, inasmuch as the collector is physically small and few gas molecules are released by collector ion bombardment. The VTP 6578 is constructed 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. Provision is also made for outgassing the grid by direct heating by applying a voltage to the two end connections brought cut to separate base pins. Grid out gassing may be done while the tube is in operation, if desired.



SCALE FULL SIZE

GENERAL CHARACTERISTICS

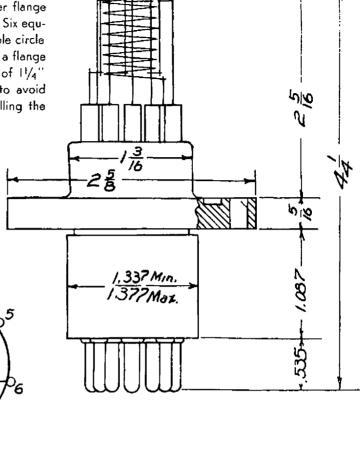
Filaments N	ote: Use filan	nests ind	lividual	ly for i	navimur		hree.
	oltage (Sing						Max. Volts
Filament C		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,				lax. Amps
Grid Voltage (Referenced to Filament)							Max. Volts
Grid Voltage (Referenced to Flange)							
	nt (Emission						dax. Ma
							Max. Volts
Grid Cureo)0 17:11 3 10 nt 10:n 3 th				••	-	lax. Amps
Grid Voltage (Pin 3 to Pin 5)							
Collector Voltage (Referenced to Flange) 500 Max. Volts							
	orrage (ker GurrentVari						Max. Yous
Conector		es airect fly with			essure a	по	
When	filament is	•	-		ilowina	DIESS	ures
	ximum (Corr					•	5 Microns
	ximum (Nob						mospheres
NOTE	: It is not ne pressure testin	cessary	ta rem	ove the	VTP 6		
Case						DET	44 47 14
Basing						RE	MA A7.14 FMA 7EH
Pin No. Element	I FIF2	2 FI	g ³	4 C	5 G	6 F3	7 F2F3
Mounting (Mechanical) 6 equally spaced 13/64" holes on 21/4" hole circle							
Mounting P	osition .						. Any
	lange Temper						180°C
	•	YPICAL	OPERA			-	
Filament Vo	oltage \$ii to provide 5	ngle Filar ma Emis	ment. ision to	Grid)	A	рргох.	3.0 Volts
Filament Co	urrent Staining emiss	sion from	ı I filaı	ment)	. Ac	ргох.	4.0 Amps
	e (Use voltage						
Grid Current (Adjust filament voltage to obtain this value) 5 Ma							
Collector Voltage 30 Volts							
Collector C				•	•		
[Depends on gas and on gas pressure] 60 Microamps/micron for Dry Air							
Grid Outgassing OperationApply 5 volts at approx 4 amps between							
•	pins	3 and 5	until g	as press	ure mea	sured	is stable.

NOTE: The collector of the VTP 6578 does not require outgassing due to its small size and the radiation heating from the grid outgas operation.

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IONIZATION GAUGE TUBE TYPE 6578

A gasket groove 1½" 1.D. x 1½" O.D. x .100" deep is provided in the 25½" diameter flange to accomodate AN6227B-28 O-Rings. Six equally spaced 13/64" holes on a 2½" hole circle are provided to facilitate clamping to a flange on the vacuum system. A clearance of 1½" diameter by 2½" deep is required to avoid damage to tube elements when installing the VTP 6578.



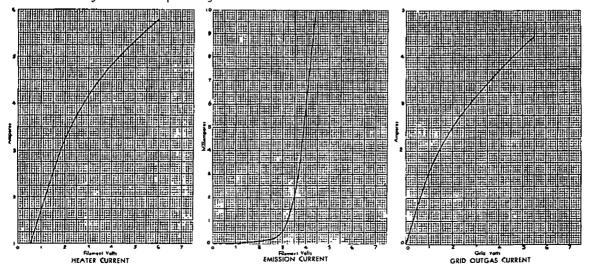
Base-Ceramic RETMA A7-14

BASING PEH

Typical curves with Eq = +150 Ep = -30

Note: Do not exceed 10 ma grid current to o'stain maximum filament life.

5 ma lg is normal operating current.



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