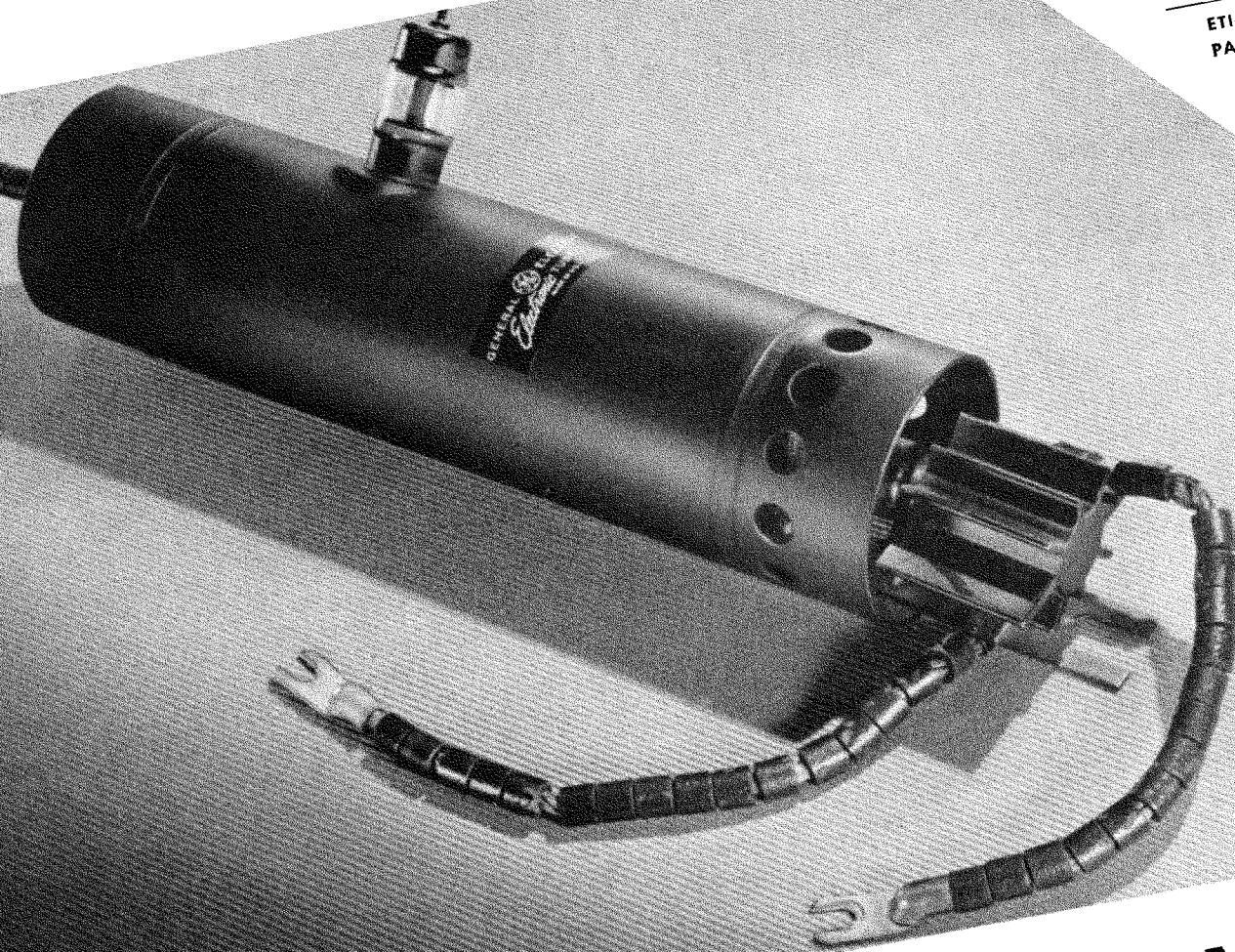




THYRATRON

DESCRIPTION

The GL-414 is a hot-cathode, mercury-vapor all-metal thyratron. The low voltage-drop characteristic and high efficiency of mercury tubes are combined in the

GL-414 with the mechanical strength and ease of installation inherent in the all-metal design. These features result in a tube especially satisfactory for industrial applications.

TECHNICAL INFORMATION

These data are for reference only. For design information refer to specifications.

GENERAL CHARACTERISTICS

Number of electrodes	4
Electrical	
Cathode—Indirectly heated type	
Heater voltage	5.0 volts
Heater current, approx.	20.0 amperes
Heating time, typical	10 minutes
Peak voltage drop, typical	16 volts
Approximate starting characteristics	
Anode voltage	100
Control-grid voltage	—1.0
Anode to control-grid capacitance	2000 volts
Ionization time, approx.	—14.0 volts
Deionization time, approx.	0.07 micromicrofarad
	10 microseconds
	1000 microseconds

GENERAL ELECTRIC

Electra
TUB

TECHNICAL INFORMATION (CONT'D)

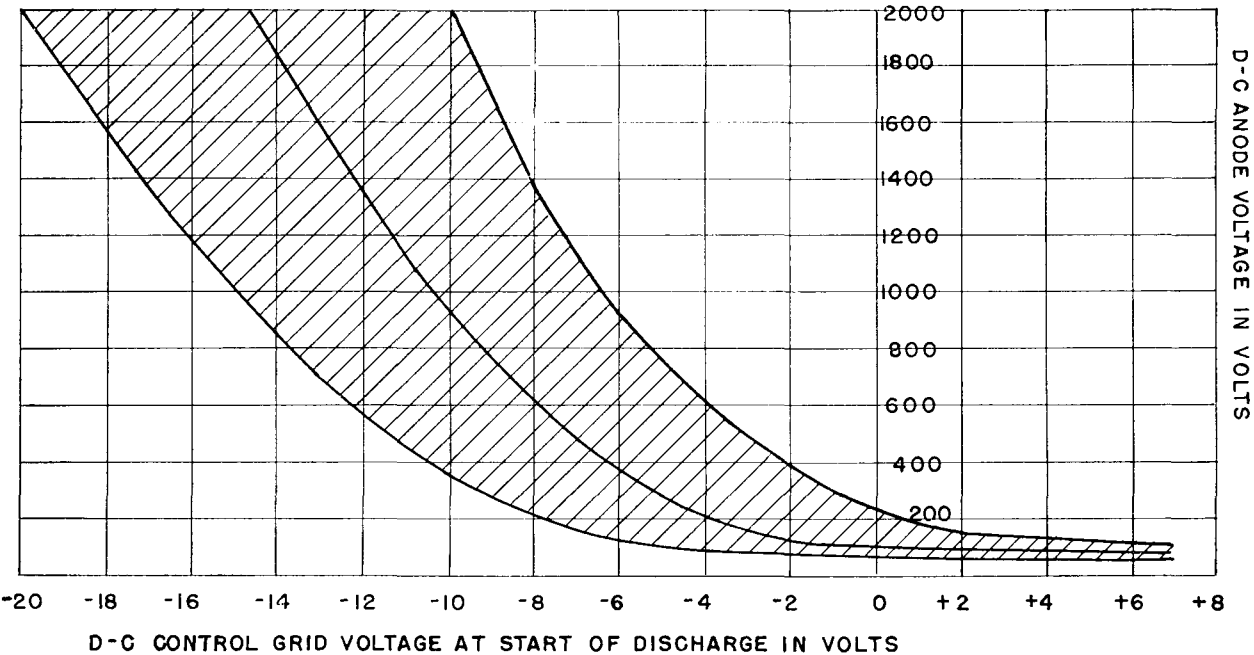
Mechanical

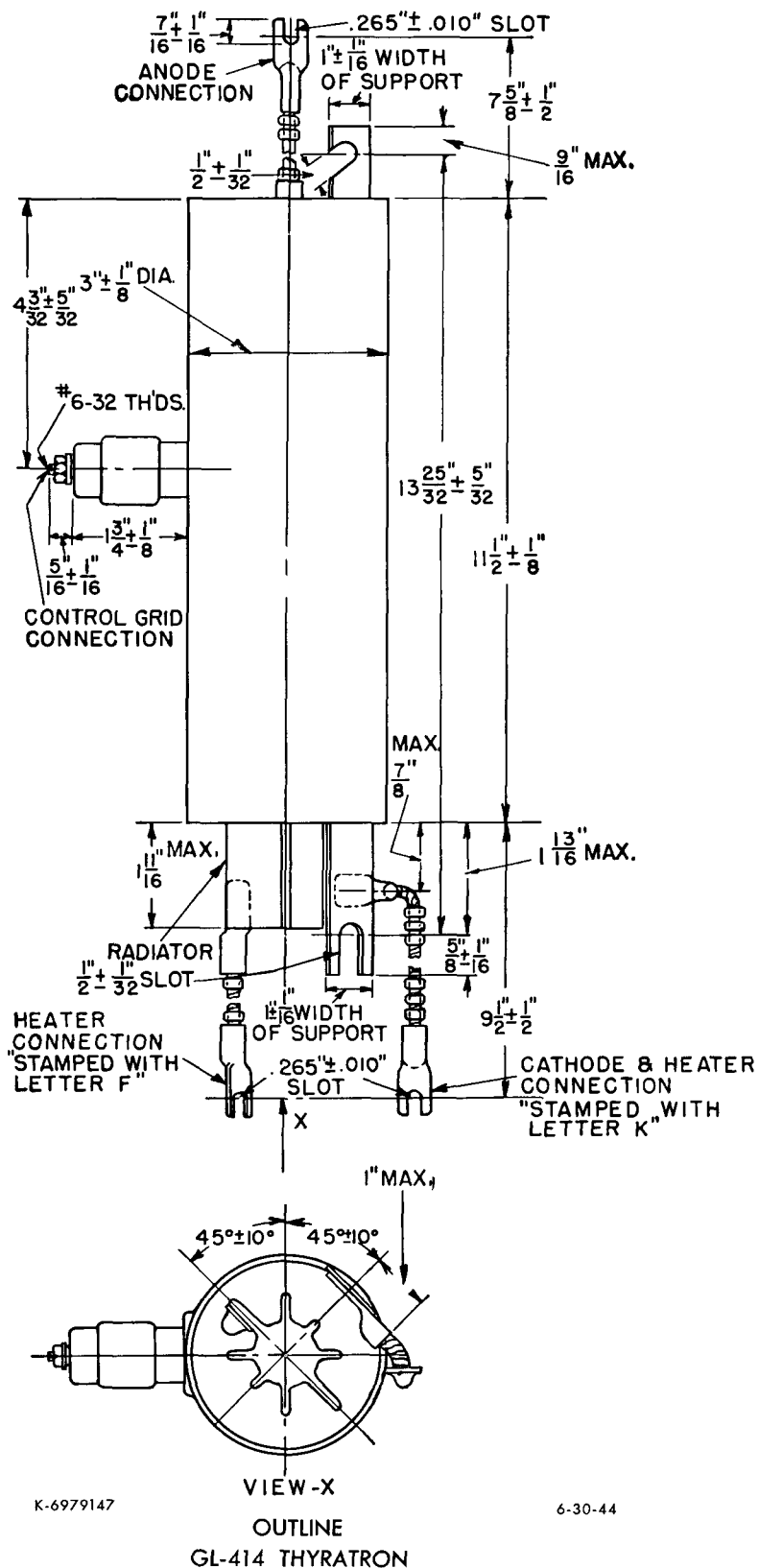
Net weight, approx.	4	pounds
Shipping weight, approx.	9	pounds
Mounting position.		vertical

MAXIMUM RATINGS

Maximum peak anode voltage		
Inverse.	2000	volts
Forward.	2000	volts
Maximum negative control-grid voltage		
Before conduction.	1000	volts
During conduction.	10	volts
Maximum anode current		
Instantaneous, 25 cycles and above.	100	amperes
Instantaneous, below 25 cycles.	25	amperes
Average.	12.5	amperes
Surge, for design only.	1500	amperes
Maximum control-grid current		
Instantaneous.	5.0	amperes
Average.	1.0	ampere
Maximum time of averaging current.	30	seconds
Temperature limits, condensed mercury.	+40 to +80	centigrade
Recommended temperature, condensed mercury.	+40	centigrade

TYPICAL CONTROL CHARACTERISTIC
SHADED AREA SHOWS RANGE OF CHARACTERISTIC
CONDENSED-MERCURY TEMPERATURE 40 C
SHIELD GRID CONNECTED TO CATHODE





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