

**OBJECTIVE
 TECHNICAL INFORMATION**

These ratings represent the design objective for this product. Refer to the Preliminary Technical Information sheet for ratings currently achieved in the progression towards design objectives. If PTI sheets do not exist, consult your local Tube Department Regional Sales Office.

**DEVELOPMENTAL
 TYPE**

ZG-7207
 OTI-105
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**IGNITRON
 ZG-7207**

The ZG-7207 is a stainless-steel-water-jacketed ignitron for use as a switch in capacitor-discharge circuits, or for DC short-circuiting-switch (crowbar) protective service.

GENERAL

Electrical

Cathode Excitation	Cyclic
Cathode Spot Starting	Ignitor
Number of Electrodes	
Main Anode	1
Main Cathode	1
Ignitors	3

Mechanical

Envelope	Stainless Steel
Mounting Position	Axis Vertical-Anode Terminal Up
Net Weight	20 Pounds
Length (excluding flexible anode cable)	18 3/4 Inches
Diameter (excluding water nipples)	5 1/2 Inches

Thermal

Type of Cooling - Water	
Inlet Water Temperature, minimum	6 C
Inlet Water Temperature, maximum	30 C
Nominal Water Flow	1.5 Gallons Per Minute

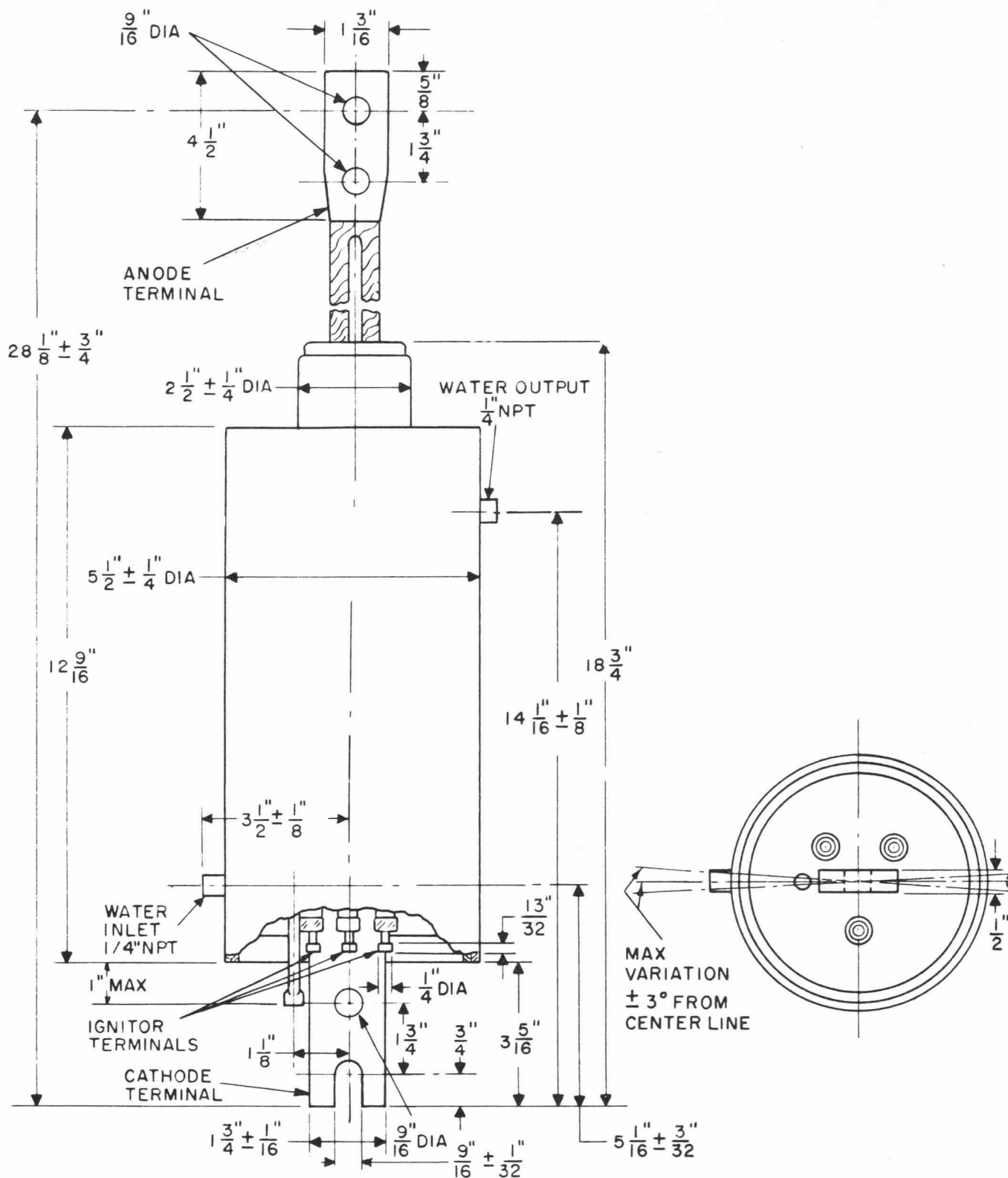
MAXIMUM RATINGS (Not simultaneous conditions)

Peak Anode Voltage	25,000 Volts
Peak Anode Current	300,000 Amperes
Length of Conduction	10 Milliseconds
Repetition Rate	500 Per Minute
Maximum Coulombs per Discharge	200 Amp-Sec.
Maximum Coulombs per Minute	200 Amp-Sec/Min.
Maximum Voltage Reversal	10 Percent

IGNITOR-CIRCUIT RATINGS

	Minimum	Maximum
Ignitor Voltage		
Forward Open-Circuit (ignitor +)	1500	3000 Volts
Inverse (ignitor -)	-	5 Volts
Ignitor Short-Circuit Current	100	250 Amperes
Length of Firing Pulse, 1/2 sine wave	5	10 Microseconds

7 May 1965



NOTE: ONE IGNITOR USED AT A TIME