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THYRATRON

METAL MERCURY-VAPOR TETRODE

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Electrical:

DATA

	Continuous Service		Welder-Control Service		
Heater, for Unipotential Cathode:					
Voltage*	5.0	5.0	5.0	5.5	volts
Current	10.0	10.0	10.0	11.0	amp
Direct Interelectrode Capacitance (Approx.):					
Grid No.1 to Anode	0.07	0.07	0.07	0.07	μmf
Peak Voltage Drop . .	16	16	16	16	volts
Approx. Control Characteristics:					
Anode Voltage . . .	100	2000	100	2000	volts
Grid-No.1 Voltage .	+1.0	-14	+1.0	-14	volts
Grid-No.2 Voltage .	0	0	0	0	volts
Ionization Time(Approx.)	10	10	10	10	μsec
Deionization Time					
(Approx.)	1000	1000	1000	1000	μsec

Mechanical:

Mounting Position	Vertical, Radiator Down
Overall Rigid Length.	10-11/16" $\pm$ 1/16"
Greatest Radius	2-5/8"
Terminals	See Outline Drawing

Maximum Ratings, Absolute Values:

	Continuous Service	Welder-Control Service	
PEAK FORWARD ANODE VOLT. .	2000 max.	750 max.	volts
PEAK INVERSE ANODE VOLT. .	2000 max.	750 max.	volts
GRID-No.1 (CONT. GRID) VOLT.:			
Before Conduction	-1000 max.	-1000 max.	volts
During Conduction	-10 max.	-10 max.	volts
GRID-No.2 (SHL'D GRID) VOLT.:			
Before Conduction	-300 max.	-300 max.	volts
During Conduction	-5.0 max.	-5.0 max.	volts
INSTANTANEOUS ANODE CUR.:			
Below 25 Cycles	13.0 max.	13.0 max.	amp
25 Cycles and Higher. . .	40 max.	77 max.	amp
AVERAGE ANODE CURRENT** . .	6.4 max.	2.5 max.	amp
SURGE ANODE CURRENT for			
0.1 sec. max.	400 max.	400 max.	amp
INSTANTANEOUS GRID-No.1 CUR.	1.0 max.	1.0 max.	amp
AVERAGE GRID-No.1 Cur.** .	0.25 max.	0.25 max.	amp
INSTANTANEOUS GRID-No.2 CUR.	2.0 max.	2.0 max.	amp
AVERAGE GRID-No.2 Cur.** .	0.5 max.	0.5 max.	amp
COND.-MERCURY TEMP. RANGE [▲]	40 - 80	30 - 95	$^{\circ}$ C

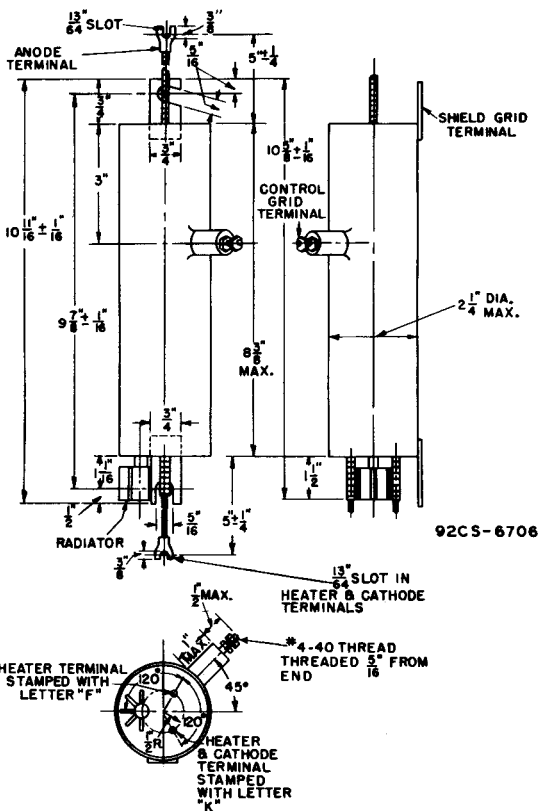
* Must be applied at least 5 minutes before anode voltage is applied.

** Averaged over any 15-second interval.

[▲] Recommended condensed-mercury temperature 40 $^{\circ}$ C.



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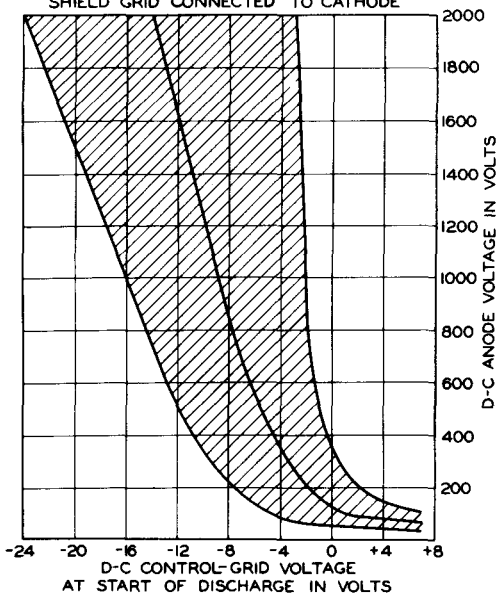




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TYPICAL CONTROL CHARACTERISTIC
SHADED AREA SHOWS RANGE OF CHARACTERISTIC
CONDENSED-MERCURY TEMP. 40°C
SHIELD GRID CONNECTED TO CATHODE



92CS-6698