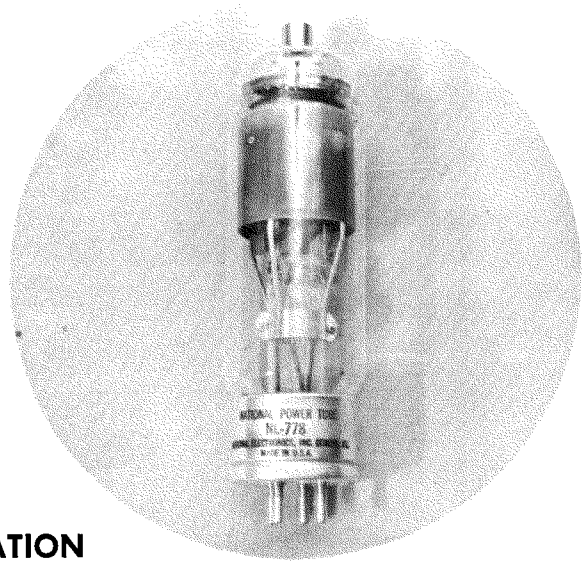
NL-778 THYRATRON TUBE

3.0 Amperes dc - 110 Amperes Peak
6.4 Amperes dc - 50 Amperes Peak

National Power Tube NL-778 is a quick heating industrial thyratron designed especially for welding control applications. It is gas and mercury filled for quick starting, constancy of characteristics within wide temperature limits, and long life.

It is available with bracket type base for panel mounting under type number NL-778P, and with the new National-designed lug type base under type Number NL-778L.



TECHNICAL INFORMATION

	NL-778	
dc Amperes output (Maximum)	6.4	3.0
Instantaneous Amperes Output (Maximum)	50	110
Maximum time of averaging anode current (seconds)	3	
Maximum peak inverse volts	1500	
Maximum peak forward volts	1500	
Condensed mercury temperature limits (°C)	−40 to +80*	
Filament volts	2.5	
Filament amperes	21 ± 2	
Filament heating time (seconds)	60	
Typical arc drop at 20 amperes peak (volts)	12	
Grid control characteristic	See Curve	
Maximum negative grid voltage before conduction (volts)	500	
Maximum negative grid voltage during conduction (volts)	10	
Maximum critical grid current (microamps)	10	
Ionization time (approx., microseconds)	10	
Deionization time (approx., microseconds)	1000	
Anode to grid capacitance (uuf)	4	
Maximum ac short circuit current (amperes)	770	
Approx. temp. rise, cond. mercury above ambient (°C)	30	
Mounting position	Vertical, base down	
Net weight (ounces)	9	
Approximate shipping weight (lbs.)	5	

*The tube may be started and satisfactory operation will result between −40 and +80°C. For maximum life the condensed mercury temperature after warm-up should run between +40 and +80°C which corresponds to approximately +10 to +50°C ambient.

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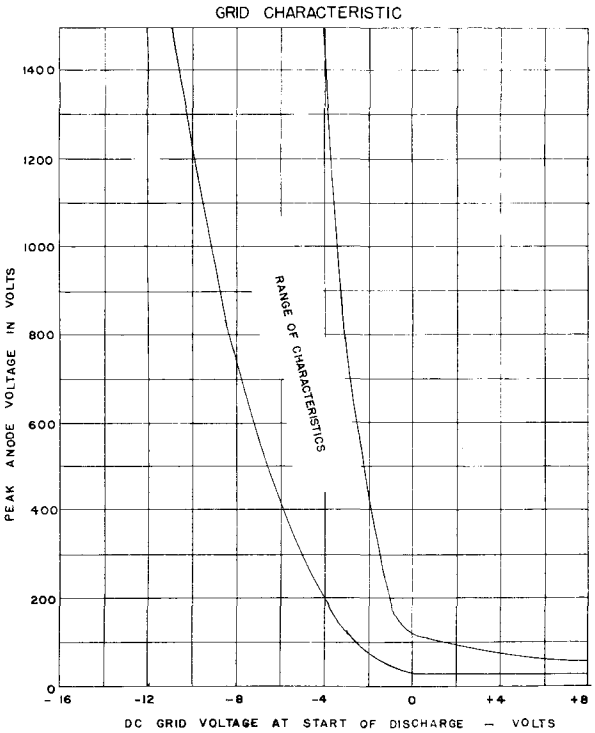
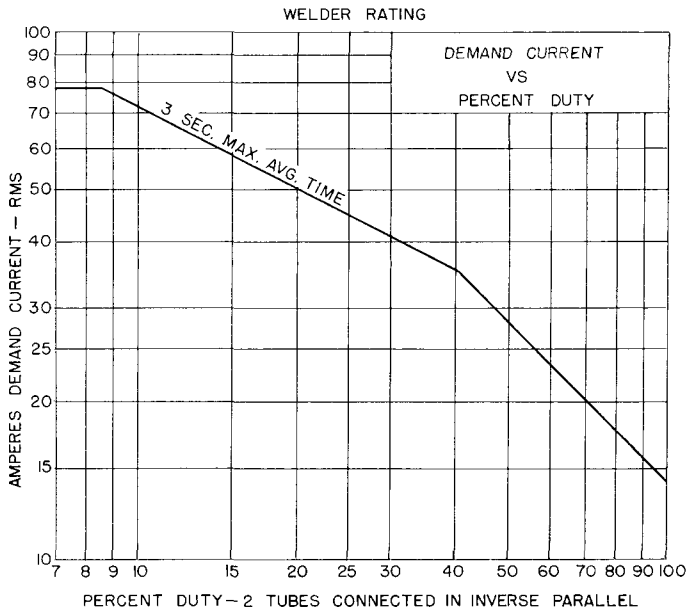
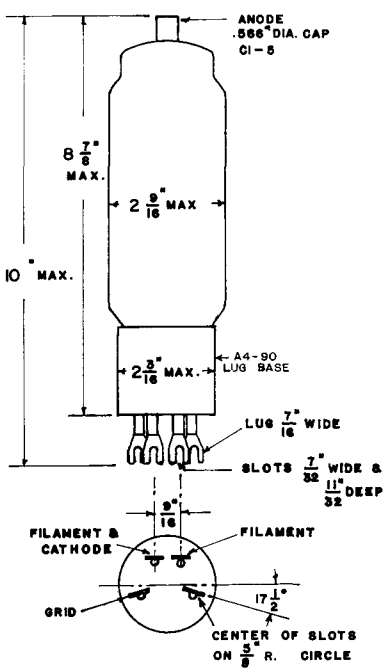


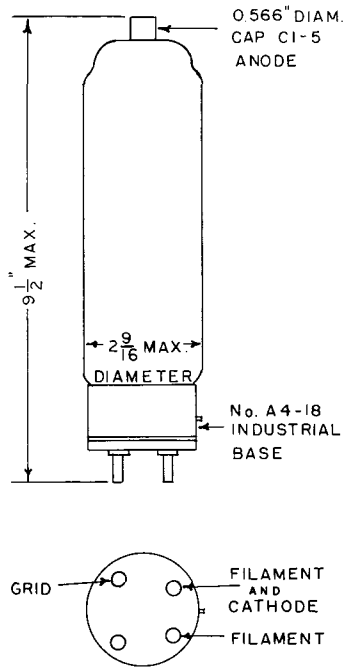


OUTLINES

NL-778L



NL-778



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