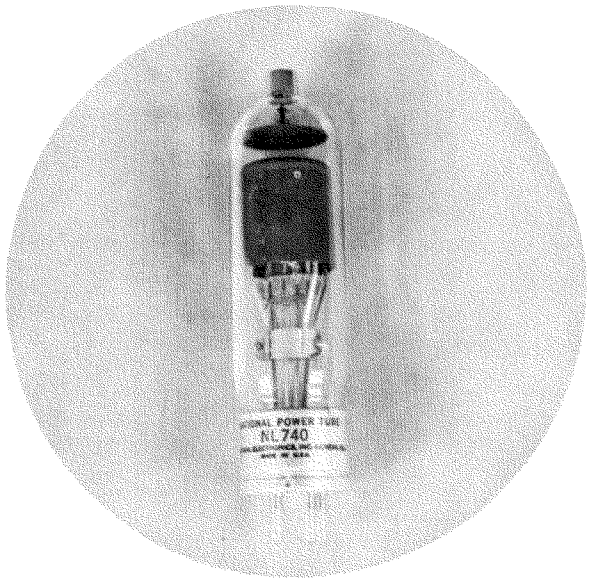
NL-740 & NL-741 THYRATRON TUBES

4 Amperes dc — 50 Amperes Peak

National Power Tube NL-740 is a quick starting Industrial thyratron designed especially for heavy duty ignitor firing applications and for use in motor speed control and regulated rectifier equipments. It is gas and mercury filled for quick starting and constancy of characteristics within wide temperature limits.

NL-741 has the same general characteristics, within its narrower temperature limits, but is filled with mercury only to permit use of the tube at higher voltages.

Both types are available with bracket type bases for panel mounting under type numbers NL-740P and NL-741P and with the new NATIONAL-designed lug type bases under type numbers NL-740L and NL-741L.



TECHNICAL INFORMATION

	NL-740		NL-741		
dc Amperes output (maximum)	4.0	2.5	4.0	2.5	2.5
Instantaneous Amperes output (maximum)	30	50	30	50	15
Maximum time of averaging anode current (sec.)	5	5	5	5	5
Maximum peak inverse volts	1500	1500	1500	1500	5000
Maximum peak forward volts	1500	1500	1500	1500	2500
Condensed mercury temperature limits (°C)	—40 to +80*	—40 to +80*	+40 to +90	+40 to +90	+40 to +65
Filament volts	2.5				
Filament amperes	16 ± 2				
Filament heating time (seconds)	30				
Typical arc drop at 12 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)	3				
Maximum ac short circuit current (amperes)	400				
Approx. temperature rise, cond. mercury above ambient (°C)	25				
Mounting position	Vertical, base down				
Net weight (ounces)	7				
Approx. shipping weight (lbs.)	4				

*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 +15 to +55°C ambient temperature.

Note: Max. base shell to lead voltage, 1500 v rms.

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NATIONAL ELECTRONICS, INC.
GENEVA, ILLINOIS, U. S. A.

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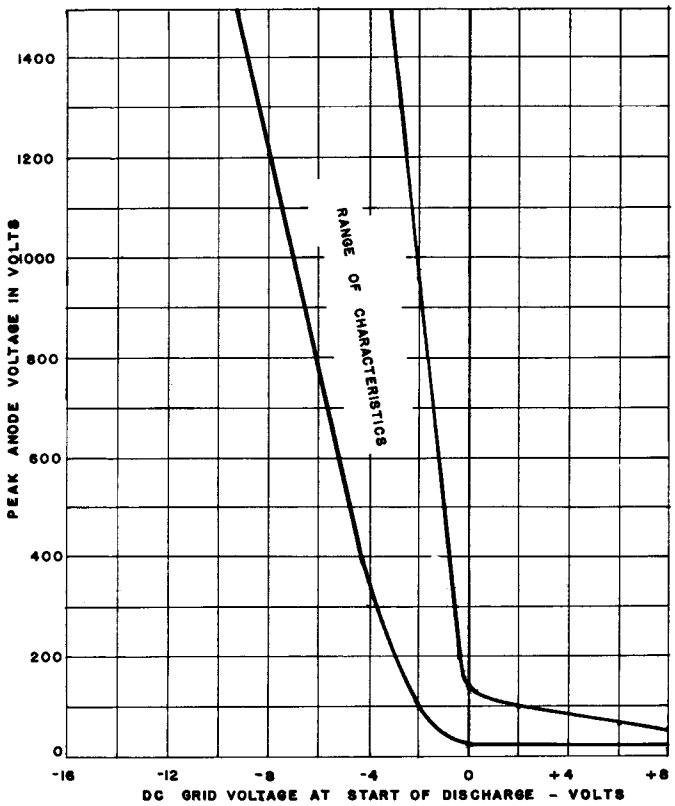
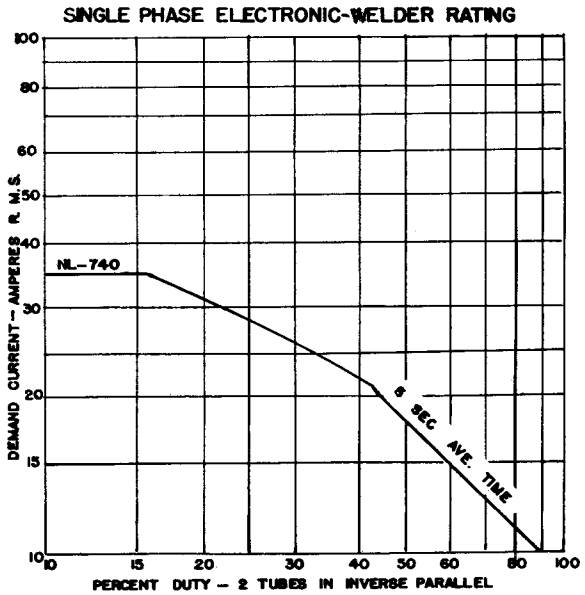
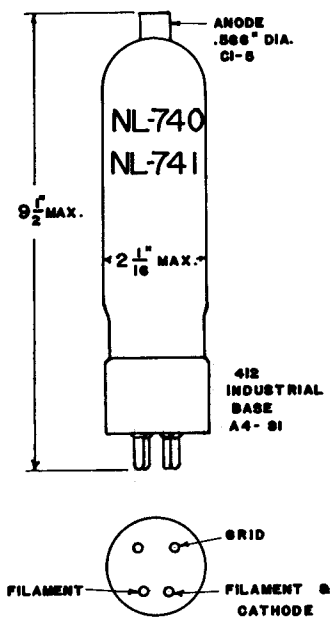
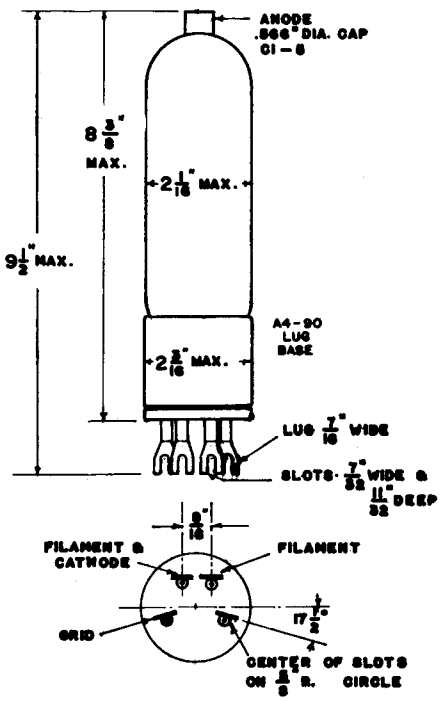
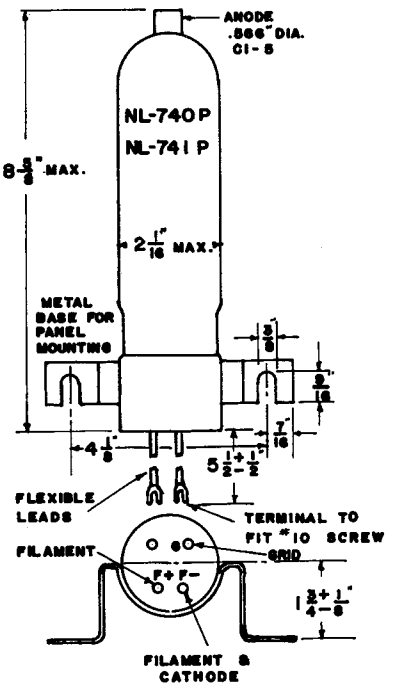






NL-740L





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