Lobee Pump & Machinery Co.
Industrial Pumps and Accessories
Since 1899...Noted for Highest Quality Pumps and Equipment

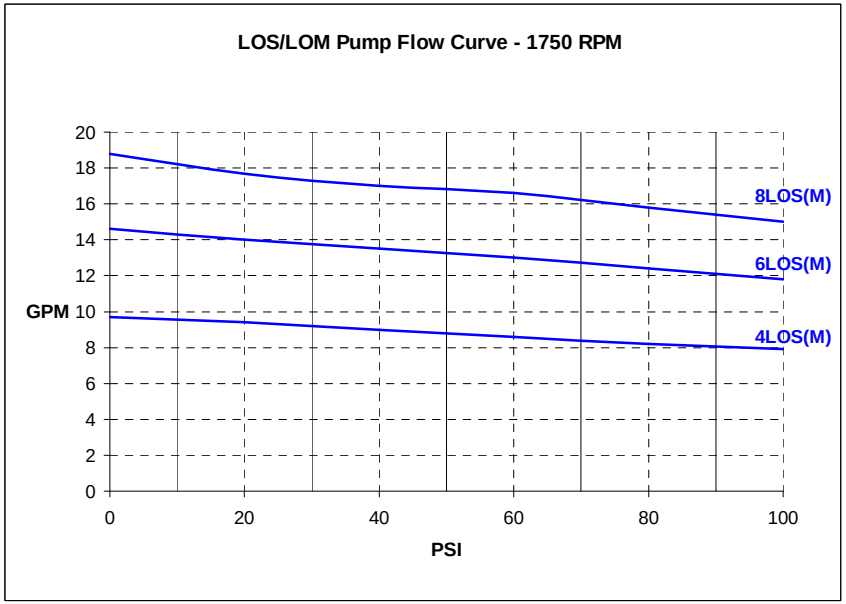
GEAR PUMP PERFORMANCE COMPARISONS

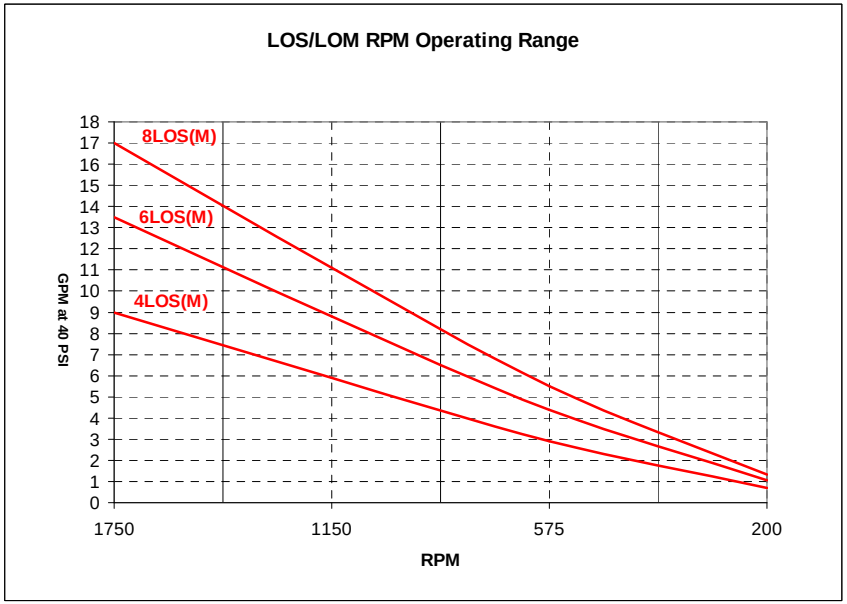
Performance tested with 70°F Water. The viscosity and specific gravity of other fluids will vary results. Positive displacement gear pumps have excellent suction lift characteristics and are self priming when wetted. For vertical suction lift should pump run dry between uses, re-'wet' pump or use foot valve. Pump flow can be varied by varying input speed with pulleys, a gear reducer, or electric motor inverter (VFD). Never side load pump drive shaft, use a jackshaft/bearing arrangement.

Horsepower (HP) ratings are conservative estimates and will vary based on viscosity, temperature and other factors. For power usage concerns please call factory for specific application recommendations.

BRONZE GEAR PUMP MODELS LOS, LOM

SHAFT SPEED	PUMP MODEL	NPT Ports	GPM/100 RPM		0 PSI		20 PSI		40 PSI		60 PSI		80 PSI		100 PSI	
				~ CIR	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
1750 RPM	4LOS(M)	1/2"	0.556	1.28	9.7	1/2	9.4	1/2	9	3/4	8.6	1	8.2	1	7.9	1 1/2
	6LOS(M)	3/4"	0.836	1.93	14.6	1/2	14	1/2	13.5	1	13	1	12.4	1 1/2	11.8	1 1/2
	8LOS(M)	1"	1.070	2.47	18.8	1/2	17.7	3/4	17	1	16.6	1 1/2	15.8	2	15	2
1150 RPM	4LOS(M)	1/2"	0.556	1.28	6.6	1/4	6.2	1/4	5.9	1/3	5.6	1/2	5.4	3/4	5.2	3/4
	6LOS(M)	3/4"	0.836	1.93	9.6	1/3	9.2	1/3	8.8	1/2	8.5	1/2	8.2	1	7.7	1
	8LOS(M)	1"	1.070	2.47	12.4	1/3	11.6	1/2	11.1	3/4	10.9	1	10.3	1	9.8	1 1/2
575 RPM	4LOS(M)	1/2"	0.556	1.28	3.2	1/4	3	1/4	2.9	1/3	2.8	1/3	2.7	1/3	2.6	1/2
	6LOS(M)	3/4"	0.836	1.93	4.8	1/4	4.6	1/4	4.4	1/3	4.2	1/3	4	1/2	3.8	1/2
	8LOS(M)	1"	1.07	2.47	6.2	1/4	5.8	1/4	5.5	1/3	5.3	1/2	5.1	1/2	4.9	3/4



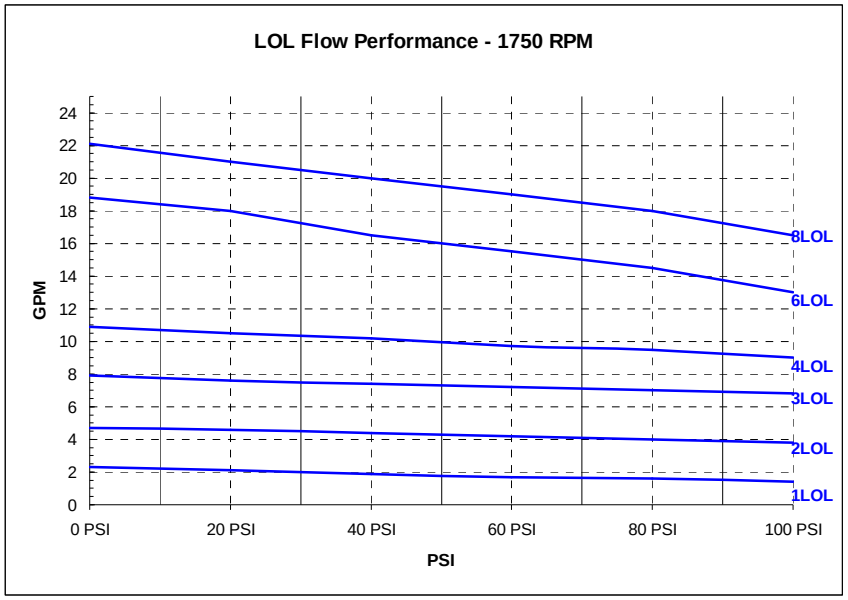


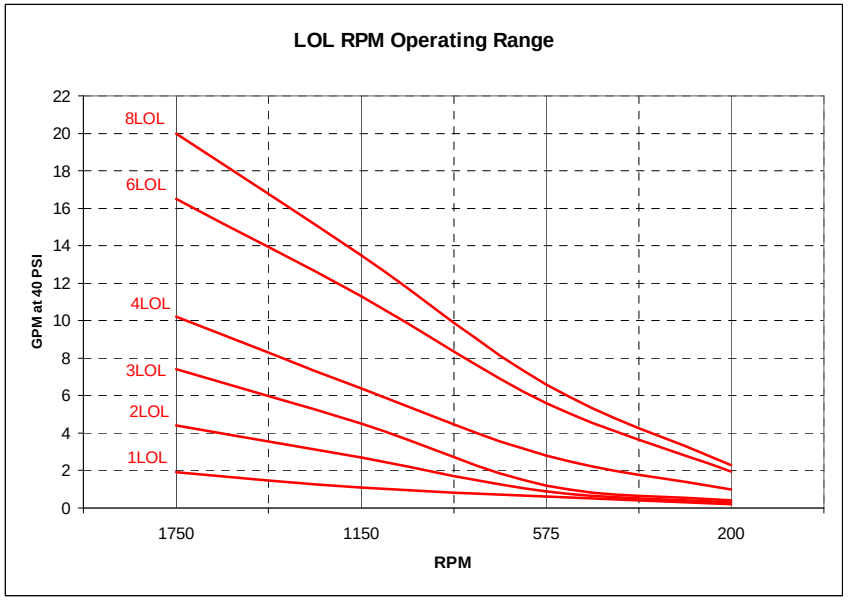
Lobee Pump & Machinery Co.
Industrial Pumps and Accessories
Since 1899...Noted for Highest Quality Pumps and Equipment

GEAR PUMP PERFORMANCE COMPARISONS

BRONZE GEAR PUMP MODELS LOL

SHAFT SPEED	PUMP MODEL	NPT Ports	GPM/100 RPM	~ CIR	0 PSI		20 PSI		40 PSI		60 PSI		80 PSI		100 PSI	
					GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
1750 RPM	1LOL	1/8"	0.13	0.30	2.3	1/4	2.1	1/4	1.9	1/2	1.7	1/4	1.6	1/3	1.4	1/3
	2LOL	1/4"	0.268	0.62	4.7	1/4	4.6	1/4	4.4	1/3	4.2	1/2	4	1/2	3.8	3/4
	3LOL	3/8"	0.451	1.04	7.9	1/2	7.6	1/2	7.4	3/4	7.2	1	7	1	6.8	1 1/2
	4LOL	1/2"	0.622	1.44	10.9	1/2	10.5	3/4	10.2	1	9.7	1	9.5	1 1/2	9	2
	6LOL	3/4"	1.075	2.48	18.8	1	18	1 1/2	16.5	2	15.5	2	14.5	2 1/2	13	3
	8LOL	1"	1.266	2.92	22.1	1 1/2	21	2	20	2	19	3	18	3	16.5	5
1150 RPM	1LOL	1/8"	0.13	0.30	1.5	1/4	1.3	1/4	1.1	1/4	0.9	1/4	0.7	1/4	0.5	1/4
	2LOL	1/4"	0.268	0.62	3.1	1/4	2.9	1/4	2.7	1/4	2.5	1/4	2.3	1/3	2.1	1/2
	3LOL	3/8"	0.451	1.04	5.2	1/4	4.8	1/4	4.5	1/3	4.1	1/2	3.8	3/4	3.5	1
	4LOL	1/2"	0.622	1.44	7.2	1/4	6.8	1/3	6.4	1/2	6	3/4	5.6	1	5.2	1
	6LOL	3/4"	1.075	2.48	12.3	1/3	11.8	1/2	11.3	3/4	10.8	1	10.3	1 1/2	9.8	2
	8LOL	1"	1.266	2.92	14.5	1/2	14	3/4	13.5	1	13	1 1/2	12.5	2	12	3
575 RPM	1LOL	1/8"	0.13	0.30	0.75	1/4	0.7	1/4	0.6	1/4	0.5	1/4	0.4	1/4	0.3	1/4
	2LOL	1/4"	0.268	0.62	1.54	1/4	1.2	1/4	0.9	1/4	0.7	1/4	0.6	1/4	0.5	1/4
	3LOL	3/8"	0.452	1.04	2.6	1/4	1.8	1/4	1.2	1/4	0.9	1/3	0.8	1/3	0.7	1/2
	4LOL	1/2"	0.622	1.44	3.6	1/4	3.2	1/4	2.8	1/3	2.4	1/3	2	1/2	1.6	1/2
	6LOL	3/4"	1.075	2.48	6.2	1/4	5.9	1/3	5.6	1/2	5.3	3/4	5.1	1	4.9	1
	8LOL	1"	1.266	2.92	7.4	1/3	7	1/2	6.6	3/4	6.2	1	5.8	1	5.4	1
	10LOL	1-1/4"	3.44	7.95	19.8	1/2	17.9	3/4	15.8	1	13.8	1 1/2	11	2	9.1	3
	12LOL	1-1/2"	5.01	11.57	28.8	1	25.7	2	23	3	20	3	17.2	5	14	5





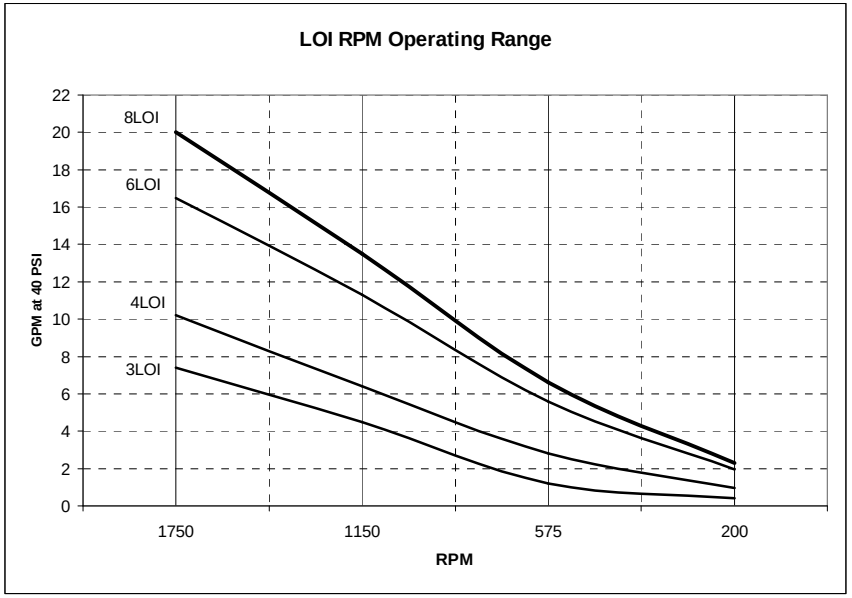
8425 State St, Gasport NY 14067 * Phone 716.772.2651 * Fax 716.772.2555 * Website WWW.Lobee.com

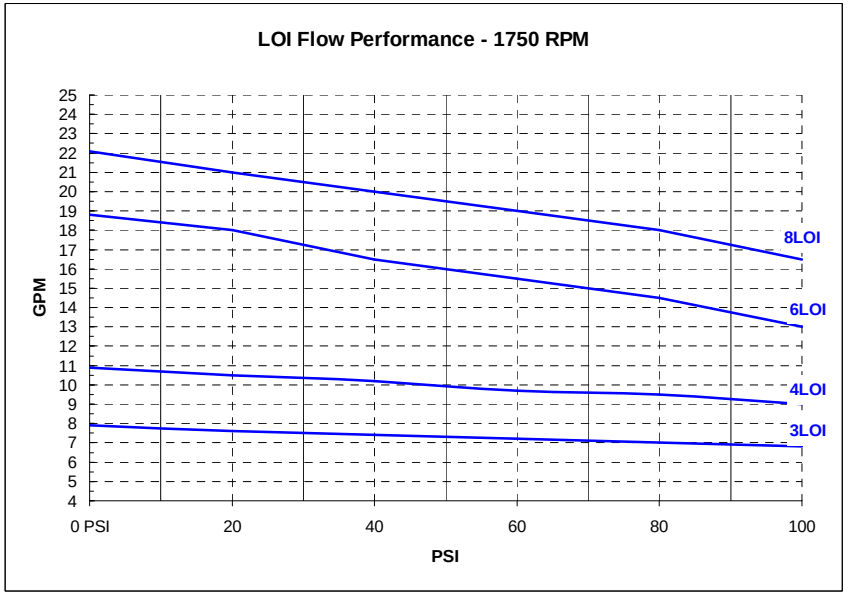
Lobee Pump & Machinery Co.
Industrial Pumps and Accessories
Since 1899...Noted for Highest Quality Pumps and Equipment

GEAR PUMP PERFORMANCE COMPARISONS

CAST IRON GEAR PUMP MODELS LOI

SHAFT SPEED	PUMP MODEL	NPT Ports	GPM/100 RPM	~ CIR	0 PSI GPM	0 PSI HP	20 PSI GPM	20 PSI HP	40 PSI GPM	40 PSI HP	60 PSI GPM	60 PSI HP	80 PSI GPM	80 PSI HP	100 PSI GPM	100 PSI HP
1750 RPM	3LOI	3/8"	0.451	1.04	7.9	1/2	7.6	1/2	7.4	3/4	7.2	1	7	1	6.8	1 1/2
	4LOI	1/2"	0.622	1.44	10.9	1/2	10.5	3/4	10.2	1	9.7	1	9.5	1 1/2	9	2
	6LOI	3/4"	1.075	2.48	18.8	1	18	1 1/2	16.5	2	15.5	2	14.5	2 1/2	13	3
	8LOI	1"	1.266	2.92	22.1	1 1/2	21	2	20	2	19	3	18	3	16.5	5
1150 RPM	3LOI	3/8"	0.451	1.04	5.2	1/4	4.8	1/4	4.5	1/3	4.1	1/2	3.8	3/4	3.5	1
	4LOI	1/2"	0.622	1.44	7.2	1/4	6.8	1/3	6.4	1/2	6	3/4	5.6	1	5.2	1
	6LOI	3/4"	1.075	2.48	12.3	1/3	11.8	1/2	11.3	3/4	10.8	1	10.3	1 1/2	9.8	2
	8LOI	1"	1.266	2.92	14.5	1/2	14	3/4	13.5	1	13	1 1/2	12.5	2	12	3
575 RPM	3LOI	3/8"	0.452	1.04	2.6	1/4	1.8	1/4	1.2	1/4	0.9	1/3	0.8	1/3	0.7	1/2
	4LOI	1/2"	0.622	1.44	3.6	1/4	3.2	1/4	2.8	1/3	2.4	1/3	2	1/2	1.6	1/2
	6LOI	3/4"	1.075	2.48	6.2	1/4	5.9	1/3	5.6	1/2	5.3	3/4	5.1	1	4.9	1
	8LOI	1"	1.266	2.92	7.4	1/3	7	1/2	6.6	3/4	6.2	1	5.8	1	5.4	1





8425 State St, Gasport NY 14067 * Phone 716.772.2651 * Fax 716.772.2555 * Website WWW.Lobee.com

Lobee Pump & Machinery Co.
Industrial Pumps and Accessories
Since 1899...Noted for Highest Quality Pumps and Equipment

GEAR PUMP PERFORMANCE COMPARISONS

STAINLESS STEEL GEAR PUMP MODELS LOE/LOX, MOE/MOX

SHAFT SPEED	PUMP MODEL	NPT Ports	GPM/100 RPM	0 PSI		20 PSI		40 PSI		60 PSI		80 PSI		100 PSI		125 PSI *		150 PSI *	
				GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
1750 RPM	1MOX-S	1/4"	0.134	2.35	1/4	2.3	1/4	2.2	1/4	2.1	1/4	2	1/3	1.9	1/2	1.8	1/2	1.7	1/2
	2(XXX)-S	1/4"	0.268	4.7	1/3	4.6	1/3	4.4	1/3	4.2	1/2	4	1/2	3.8	3/4	3.7	3/4	3.6	3/4
	3(XXX)-S	3/8"	0.418	7.3	1/3	7	1/3	6.7	1/3	6.2	1/2	6	1/2	5.5	3/4	5.4	1	5.3	1
	4(XXX)-S	1/2"	0.556	9.7	1/2	9.4	1/2	9	3/4	8.6	1	8.2	1	7.9	1 1/2	7.8	1 1/2	7.7	1 1/2
	6(XXX)-S	3/4"	0.836	14.6	1/2	14	1/2	13.5	1	13	1	12.4	1 1/2	11.8	1 1/2	11.6	2	11.4	2
	8(XXX)-S	1"	1.07	18.8	1/2	17.7	3/4	17	1	16.6	1 1/2	15.8	2	15	2	14.8	3	14.5	3
1150 RPM	1MOX-S	1/4"	0.134	1.6	1/4	1.45	1/4	1.35	1/4	1.25	1/4	1.15	1/4	1.05	1/3	0.9	1/3	0.8	1/3
	2(XXX)-S	1/4"	0.268	3.1	1/4	2.9	1/4	2.7	1/4	2.5	1/3	2.3	1/3	2.1	1/2	1.9	1/2	1.7	1/2
	3(XXX)-S	3/8"	0.418	4.8	1/4	4.6	1/4	4.4	1/3	4.1	1/3	4	1/3	3.6	1/2	3.2	3/4	2.8	3/4
	4(XXX)-S	1/2"	0.556	6.6	1/4	6.2	1/4	5.9	1/3	5.6	1/2	5.4	3/4	5.2	3/4	4.9	3/4	4.6	1
	6(XXX)-S	3/4"	0.836	9.6	1/3	9.2	1/3	8.8	1/2	8.5	1/2	8.2	1	7.7	1	7.4	1 1/2	7.1	1 1/2
	8(XXX)-S	1"	1.07	12.4	1/3	11.6	1/2	11.1	3/4	10.9	1	10.3	1	9.8	1 1/2	9.4	1 1/2	9	2
575 RPM	1MOX-S	1/4"	0.134	0.76	1/4	0.6	1/4	0.45	1/4	0.35	1/4	0.3	1/4	0.25	1/4	0.18	1/4	0.1	1/3
	2(XXX)-S	1/4"	0.268	1.54	1/4	1.2	1/4	0.9	1/4	0.7	1/4	0.6	1/4	0.5	1/4	0.4	1/4	0.3	1/3
	3(XXX)-S	3/8"	0.418	2.2	1/4	2.3	1/4	2.2	1/4	2.1	1/4	2	1/4	1.8	1/4	1.6	1/3	1.3	1/3
	4(XXX)-S	1/2"	0.556	3.2	1/4	3	1/4	2.9	1/3	2.8	1/3	2.7	1/3	2.6	1/2	2.4	1/2	2	1/2
	6(XXX)-S	3/4"	0.836	4.8	1/4	4.6	1/4	4.4	1/3	4.2	1/3	4	1/2	3.8	1/2	3.5	3/4	3.1	3/4
	8(XXX)-S	1"	1.07	6.2	1/4	5.8	1/4	5.5	1/2	5.3	1/2	5.1	1/2	4.9	3/4	4.5	3/4	4.1	1

(XXX) covers Models LOE, LOX, MOE and MOX. Size '1' available in MOE/MOX configurations only.
* Pressures above 100 PSI are recommended for Models MOE and MOX only. For continuous pressures above recommended please contact factory. Wear factor versus pressure is strongly influenced by type of material being pumped. E.G. , Water causes greater wear on pump internals then does oils.