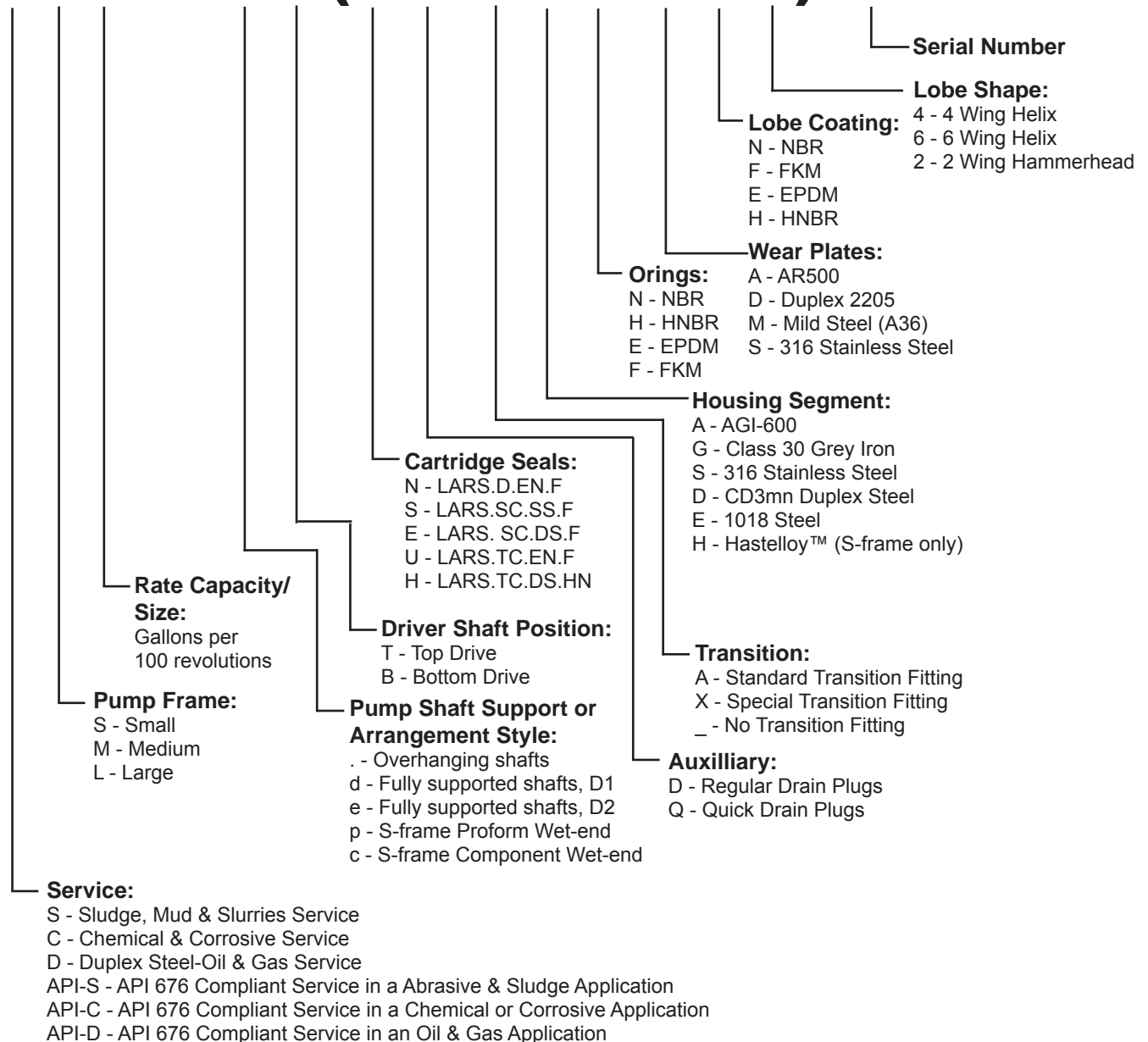




## LobePro Pump Identification

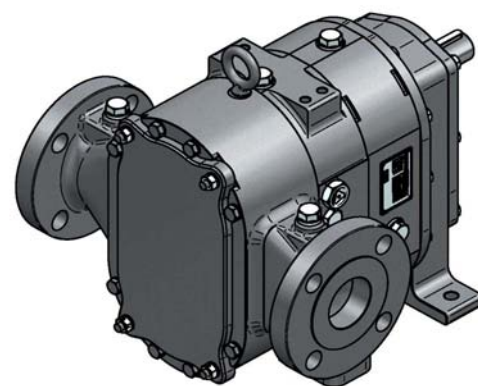
LobePro rotary pumps are modelled and identified according to its intended application or use. Standard pump assembly is for none to abrasive application. The nomenclature below describes the standard pump frame size, capacity, pressure capability, drive shaft arrangement, application and the serial number. Other options are available. Most common are listed below.

# SL266dB(NDAANAN4)-123456



Example: The pump series described above is a large rotary pump with rated capacity of 266 gallons per 100 revolutions. The pump is for high pressure application with a bottom drive shaft, pumping an extremely abrasive material. This pump also features: LARS.D.EN.F Cartridge Seals, Regular Drain Plugs, ANSI Standard Steel Transition Fittings, AGI 600 Housing Segments, NBR Orings, AR500 Wear Plates, NBR 70 Coated 4 Wing Helix Lobes. The pump serial number is 123456. LobePro typical applications are listed in Manual Section 30.





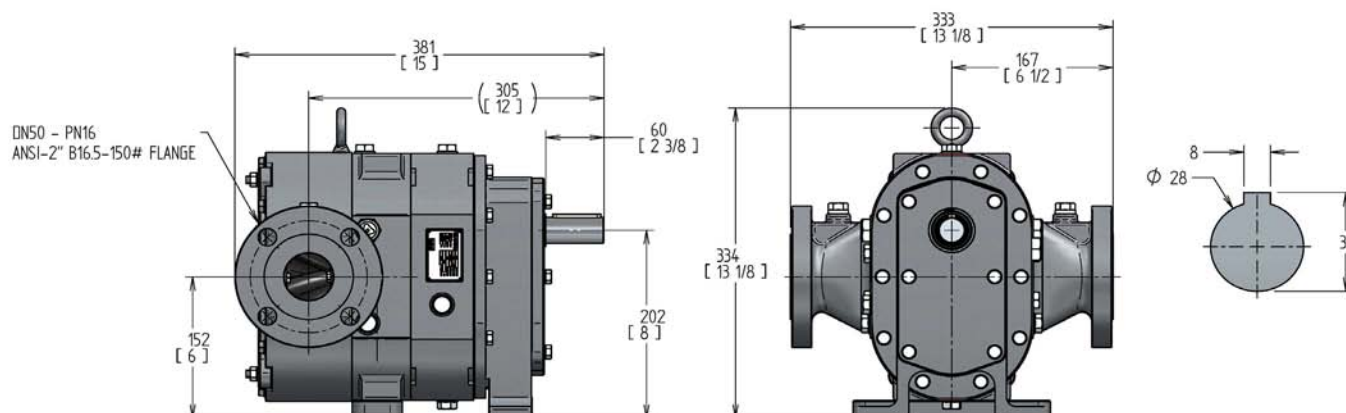
## Positive Displacement Rotary Lobe Pumps

SPECIFICATIONS	US	Metric
Rated Capacity:	0-72 gpm	0-16 M <sup>3</sup> /Hr
Displacement (per 100 revolutions):	8 gal (US)	30 L
Working Pressure (continuous):	175 psi	12 Bar
Max. Pressure (intermittent)	200 psi	13.8 Bar
Rated Speed:	0-900 RPM	0-900 RPM
Flange Connection Class:	ANSI 16.5-150#	DN – PN 16
Flange Connection Size:	ANSI 2"	DN 50
Weight:	150 lbs	68 Kg
Solids Handling:		
Spherical Compressible	0.75"	19 mm
Spherical Hard*	1/8"	3 mm

\* Larger hard solids will pass through but may cause damage.

MODEL >	SS8p	CS8p	DS8p
Service	Sludge, Mud and Slurries*	Chemical/Corrosive	Oil, Gas & Abrasives
<b>WETTED PARTS</b>			
<b>Rotary Lobes</b>			
Elastomer	NBR Opt. HNBR, FKM, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.
Lobe Profile	Helix	Helix	Helix
Number of lobe wings	6	6	6
Core	Carbon Steel	Carbon Steel	Carbon Steel
<b>Sealing Elastomers</b>			
O-rings	FKM	FKM or Engineer Recommendation	FKM or Engineer Recommendation
Lip seals	FKM or Engineer Recommendation	FKM or Engineer Recommendation	FKM or Engineer Recommendation
<b>Mechanical Seals</b>			
Mechanical Seal	Duronit	Silicon Carbide	Silicon Carbide
Seal Holders	Opt. Tungsten Carbide, Silicon Carbide or Eng. Rec.	Opt. Tungsten Carbide or Engineer Rec.	Opt. Tungsten Carbide or Engineer Rec.
	Carbon Steel with Corrosion resistant coating	Stainless Steel Type 316	Duplex Stainless Steel
<b>Wear Plates</b>	AR500 Steel (Brinell 500)	Stainless Steel Type 316	Duplex Stainless Steel
<b>Pump Wetend Housing</b>			
Proform design**	Class 30 Grey Iron	Duplex CD3Mn Stainless Steel	Duplex CD3Mn Stainless Steel
<b>Bolts</b>	Carbon Steel ISO 898-I	Stainless Steel A2-A4	Duplex Stainless Steel
<b>Pressure Disc</b>	Stainless Steel Type 316L	Stainless Steel Type 316L	Duplex Stainless Steel
<b>LIMITED EXPOSURE PARTS</b>			
<b>Pump Cover</b>	Carbon Steel Opt. Engineering Recommendation	Carbon Steel Opt. 316 Stainless Steel	Carbon Steel Opt. Duplex Stainless Steel
<b>NON-WETTED PARTS</b>			
<b>Quench /Seal Cooling Chamber</b>	Carbon Steel	Carbon Steel	Carbon Steel
<b>Gears</b>	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel
<b>Gear Housing</b>	Carbon Steel or ASTM A48 Grey Iron rust primed	Carbon Steel or ASTM A48 Grey Iron	Carbon Steel or ASTM A48 Grey Iron
<b>Shaft</b>	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel
<b>PAINTING REQUIREMENTS</b>			
<b>Standard Painting</b>	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint
	LobePro Blue	LobePro Silver	LobePro Silver

NOTE: Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. \*Consult Factory for application temperature above 80°C (175°F). \*\*Proform housing segment incorporates housing segment, flange ring, barrier plate and integral suction and discharge flange fittings in one piece. Component Design available in Sc line.



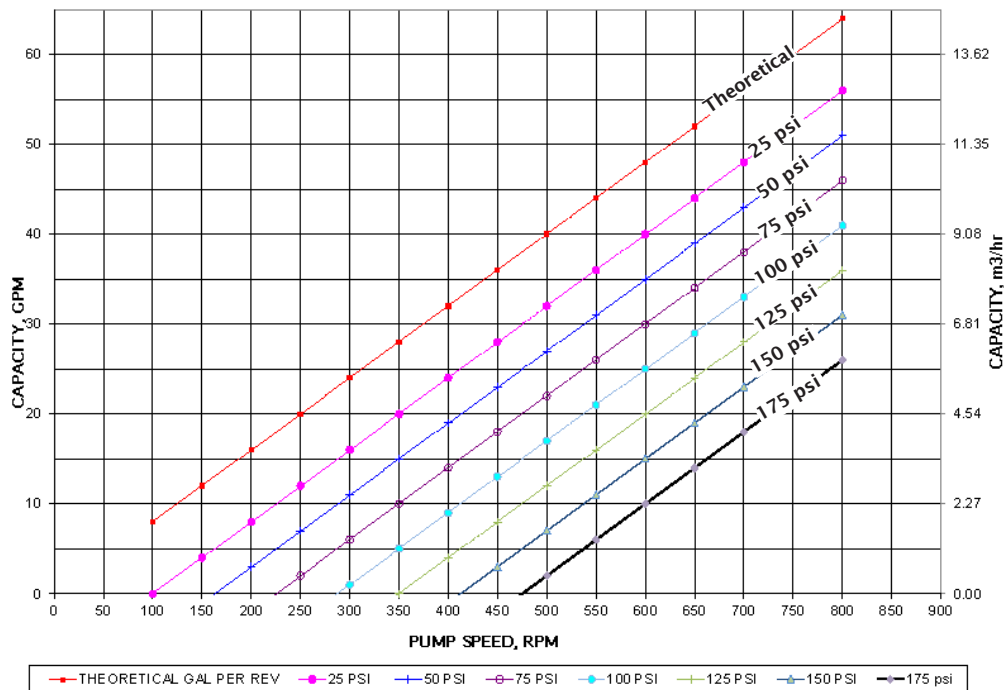
## Section 40-04-1

5 March 2017

### S8 CURVES

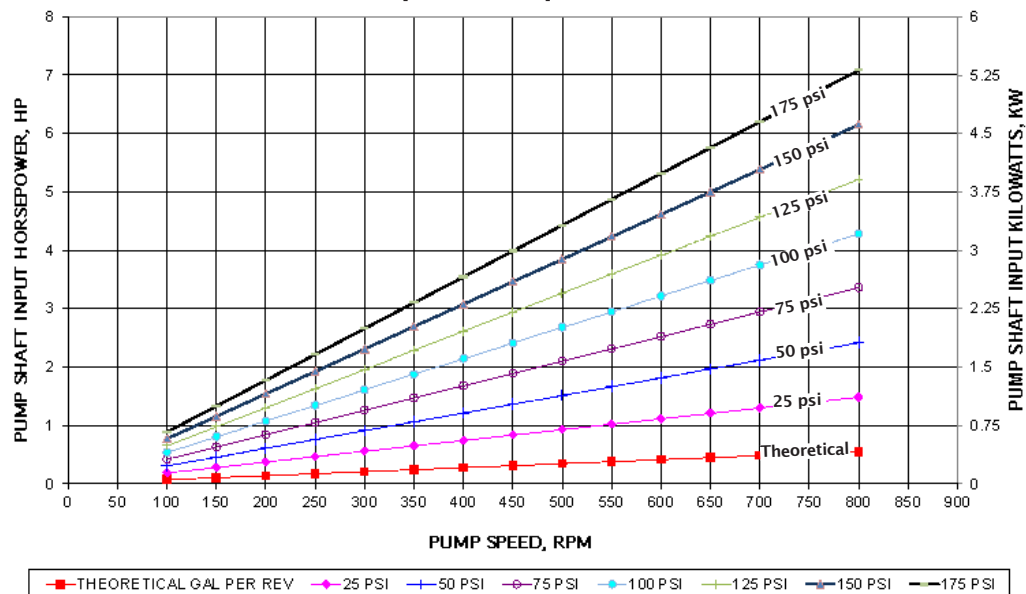
#### Performance Curve - NBR Lobes\*

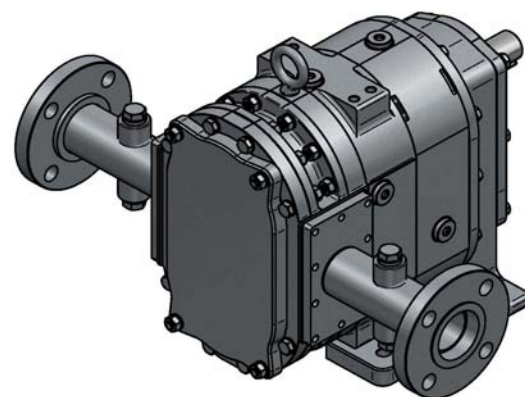
Based on 70°F (21°C) fresh water (1 cp) at Sea Level.  
Output will increase as viscosity of the fluid increases from 1.



\*Note: Output from lobes coated with elastomers other than NBR may be lower. Contact Engineering for further information.

#### Horsepower Requirements





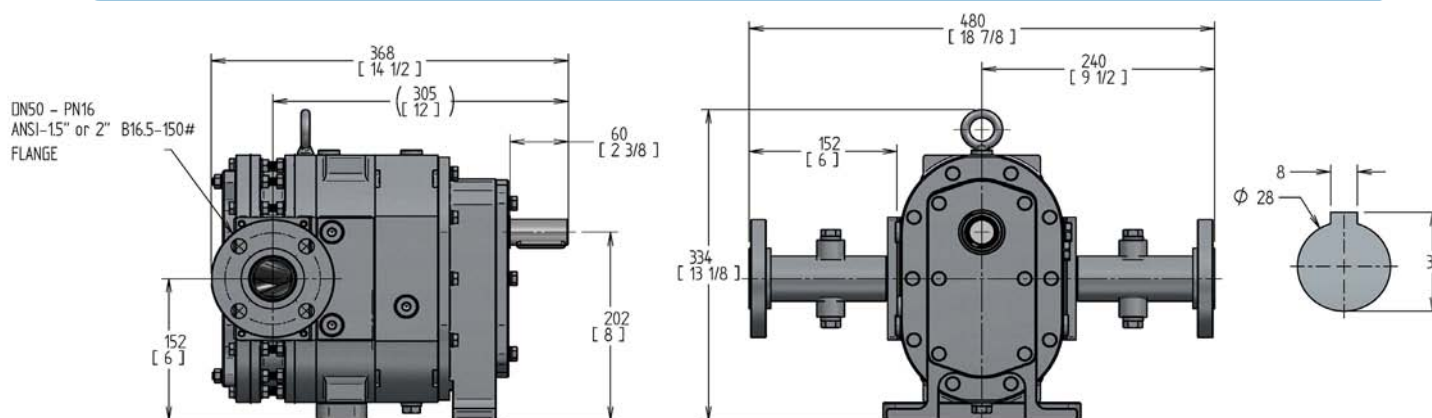
## Positive Displacement Rotary Lobe Pumps

SPECIFICATIONS	US	Metric
Rated Capacity:	0-72 gpm	0-16 M <sup>3</sup> /Hr
Displacement (per 100 revolutions):	8 gal (US)	30 L
Working Pressure (continuous):	175 psi	12 Bar
Max. Pressure (intermittent)	200 psi	13.8 Bar
Rated Speed:	0-900 RPM	0-900 RPM
Flange Connection Class:	ANSI 16.5-150#	DN - PN 16
Flange Connection Size:	ANSI 1.5"	DN 40
Weight:	141 lbs	64 Kg
Solids Handling:		
Spherical Compressible	0.75"	19 mm
Spherical Hard*	1/8"	3 mm

\* Larger hard solids will pass through but may cause damage.

MODEL >	SS8c	CS8c
Service	Sludge, Mud and Slurries*	Chemical/Corrosive
<b>WETTED PARTS</b>		
<b>Rotary Lobes</b>		
Elastomer	NBR Opt. HNBR, FKM, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.
Lobe Profile	Helix	Helix
Number of lobe wings	6	6
Core	Carbon Steel	Carbon Steel
<b>Sealing Elastomers</b>		
O-rings	FKM	FKM or Engineer Recommendation
Lip seals	FKM or Engineer Recommendation	FKM or Engineer Recommendation
<b>Mechanical Seals</b>		
Mechanical Seal	Duronit	Silicon Carbide
Seal Holders	Opt. Tungsten Carbide, Silicon Carbide or Engineer Rec. Carbon Steel with Corrosion resistant coating	Opt. Tungsten Carbide or Engineer Rec. Stainless Steel Type 316
<b>Wear Plates</b>	AR500 Steel (Brinell 500)	Stainless Steel Type 316
<b>Housing Segments</b>	Carbon Steel	Duplex Stainless Steel
<b>Flange Ring</b>	ASTM A36 Carbon Steel	Stainless Steel Type 316L
<b>Bolts</b>	Carbon Steel ISO 898-I	Stainless Steel A2-A4
<b>Pressure Disc</b>	Stainless Steel Type 316L	Stainless Steel Type 316L
<b>LIMITED EXPOSURE PARTS</b>		
<b>Quench Adaptor/Barrier Plate</b>	Carbon Steel	Carbon Steel
<b>Pump Cover</b>	Carbon Steel Opt. Engineering Recommendation	Carbon Steel Opt. 316 Stainless Steel
<b>NON-WETTED PARTS</b>		
<b>Quench/Seal Cooling Chamber</b>	Carbon Steel	Carbon Steel
<b>Gears</b>	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel
<b>Gear Housing</b>	Carbon Steel or ASTM A48 Grey Iron rust primed	Carbon Steel or ASTM A48 Grey Iron
<b>Shaft</b>	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel
<b>PAINTING REQUIREMENTS</b>		
<b>Standard Painting</b>	SSPC/SP6 Sandblast Paint LobePro Blue	SSPC/SP6 Sandblast Paint LobePro Silver

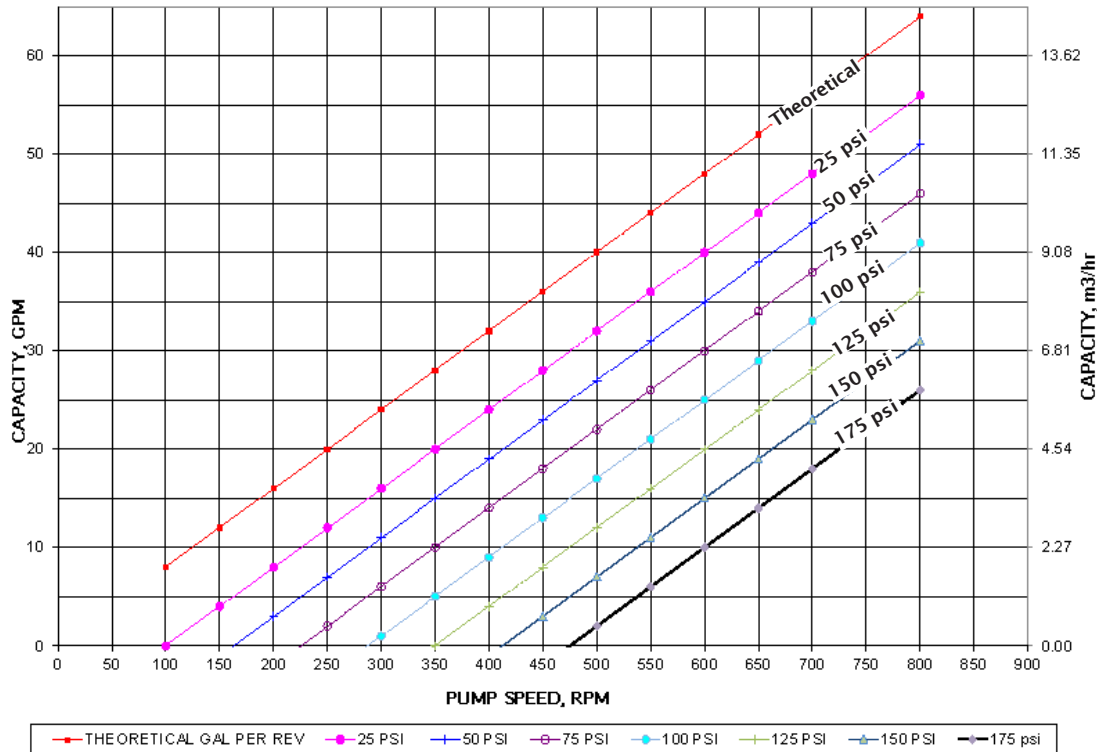
NOTE: Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. \*Consult Factory for application temperature above 80°C (175°F).



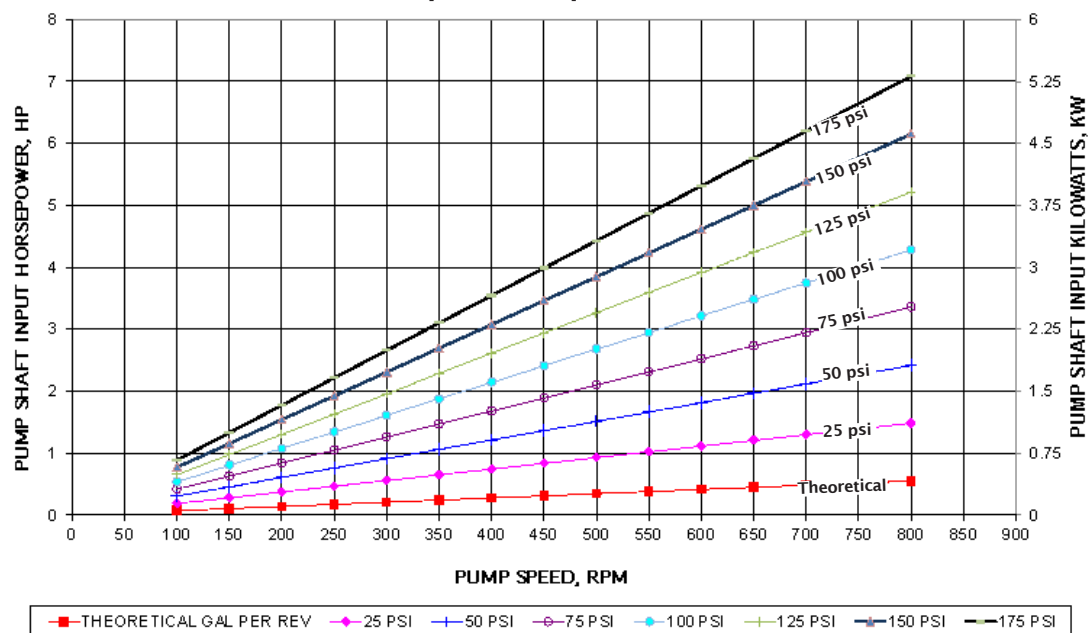
## S8 CURVES

**Performance Curve - NBR Lobes\***

Based on 70°F (21°C) fresh water (1 cp) at Sea Level.  
Output will increase as viscosity of the fluid increases from 1.



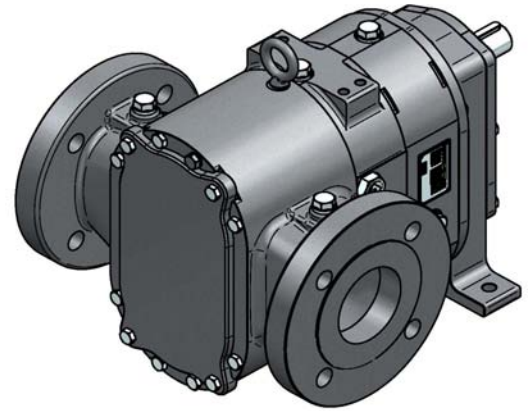
\*Note: Output from lobes coated with elastomers other than NBR maybe lower. Contact Engineering for further information.

**Horsepower Requirements**

# LOBEPRO

## ROTARY PUMPS

### S16p



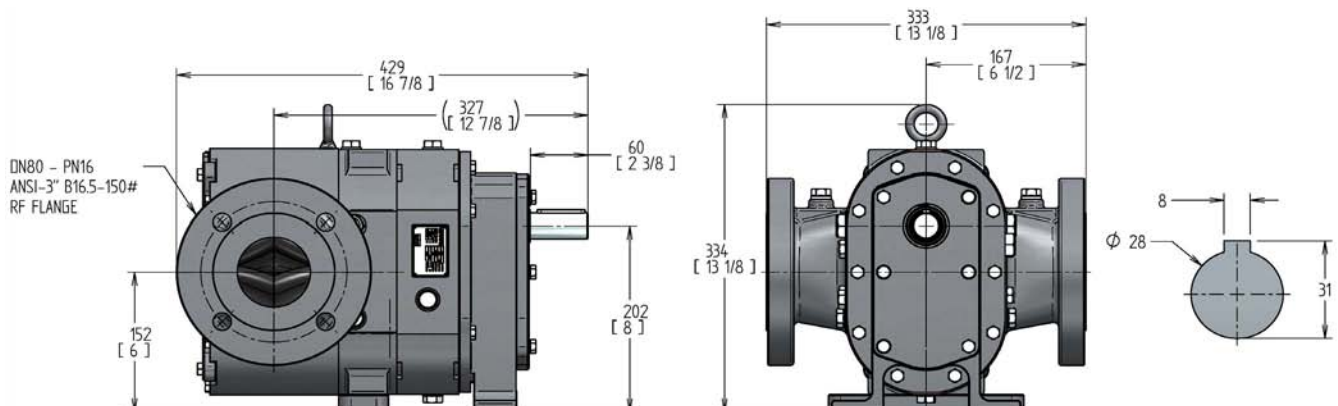
## Positive Displacement Rotary Lobe Pumps

SPECIFICATIONS	US	Metric
Rated Capacity:	0-144 gpm	0-32 M <sup>3</sup> /hr
Displacement (per 100 revolutions):	16 gal (US)	60 L
Working Pressure (continuous):	150 psi	10.3 Bar
Max. Pressure (intermittent):	175 psi	12.1 Bar
Rated Speed:	0-900 RPM	0-900 RPM
Flange Connection Class:	ANSI 16.5-150#	DN – PN 16
Flange Connection Size:	ANSI 3"	DN 80
Weight:	175 lbs	80 Kg
Solids Handling:		
Spherical Compressible	0.75"	19 mm
Spherical Hard*	1/8"	3 mm

\* Larger hard solids will pass through but may cause damage.

MODEL >	SS16p	CS16p	DS16p	HS16p
Service	Sludge, Mud & Slurries	Chemical/Corrosive	Oil, Gas & Abrasives	Highly Corrosive, H2S
<b>WETTED PARTS</b>				
<b>Rotary Lobes</b>				
Elastomer	NBR	FKM or HNBR;	FKM or HNBR	FKM or HNBR
	Opt. HNBR, FKM, EPDM, Eng. Rec.	Opt. NBR, EPDM, Eng. Rec.	Opt. NBR, EPDM, Eng. Rec.	Opt. NBR, EPDM, Eng. Rec.
Lobe Profile	Helix	Helix	Helix	Helix
Number of lobe wings	6	6	6	6
Core	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
<b>Sealing Elastomers</b>				
O-rings	FKM	FKM or Engineer Recommendation	FKM or Engineer Recommendation	FKM or Engineer Recommendation
Lip seals	FKM or Engineer Recommendation	FKM or Engineer Recommendation	FKM or Engineer Recommendation	FKM or Engineer Recommendation
<b>Mechanical Seals</b>				
Mechanical Seal	Duronit	Silicon Carbide	Silicon Carbide	Silicon Carbide
	Opt. Tungsten Carbide or Silicon Carbide	Opt. Tungsten Carbide or Eng. Rec.	Opt. Tungsten Carbide or Eng. Rec.	Opt. Tungsten Carbide or Eng. Rec.
Seal Holders	Carbon Steel with Corrosion resistant coating	Stainless Steel Type 316	Duplex Stainless Steel	Duplex Stainless Steel
<b>Wear Plates</b>	AR500 Steel (Brinell 500)	Stainless Steel Type 316	Duplex Stainless Steel	Duplex Stainless Steel
<b>Pump Wetend Housing</b>				
Proform design**	Class 30 Grey Iron	Duplex CD3Mn Stainless Steel	Duplex CD3Mn Stainless Steel	Hastelloy™ CW-2M
<b>Bolts</b>	Carbon Steel ISO 898-I	Stainless Steel A2-A4	Duplex Stainless Steel	Duplex Stainless Steel
<b>Pressure Disc</b>	Stainless Steel Type 316L	Stainless Steel Type 316L	Duplex Stainless Steel	Duplex Stainless Steel
<b>LIMITED EXPOSURE PARTS</b>				
<b>Pump Cover</b>	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
	Opt. Engineering Rec.	Opt. 316 Stainless Steel	Opt. Duplex Stainless Steel	Opt. Duplex Stainless Steel
<b>NON-WETTED PARTS</b>				
<b>Quench /Seal Cooling Chamber</b>	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
<b>Gears</b>	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel
<b>Gear Housing</b>	Carbon Steel or ASTM A48 Grey Iron rust primed	Carbon Steel or ASTM A48 Grey Iron	Carbon Steel or ASTM A48 Grey Iron	Carbon Steel or ASTM A48 Grey Iron
<b>Shaft</b>	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel
<b>PAINTING REQUIREMENTS</b>				
<b>Standard Painting</b>	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint
	LobePro Blue	LobePro Silver	LobePro Silver	LobePro Silver

NOTE: Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. \*Consult Factory for application temperature above 80°C (175°F). \*\*Proform housing segment incorporates housing segment, flange ring, barrier plate and integral suction and discharge flange fittings in one piece. Component Design available in Sc line.

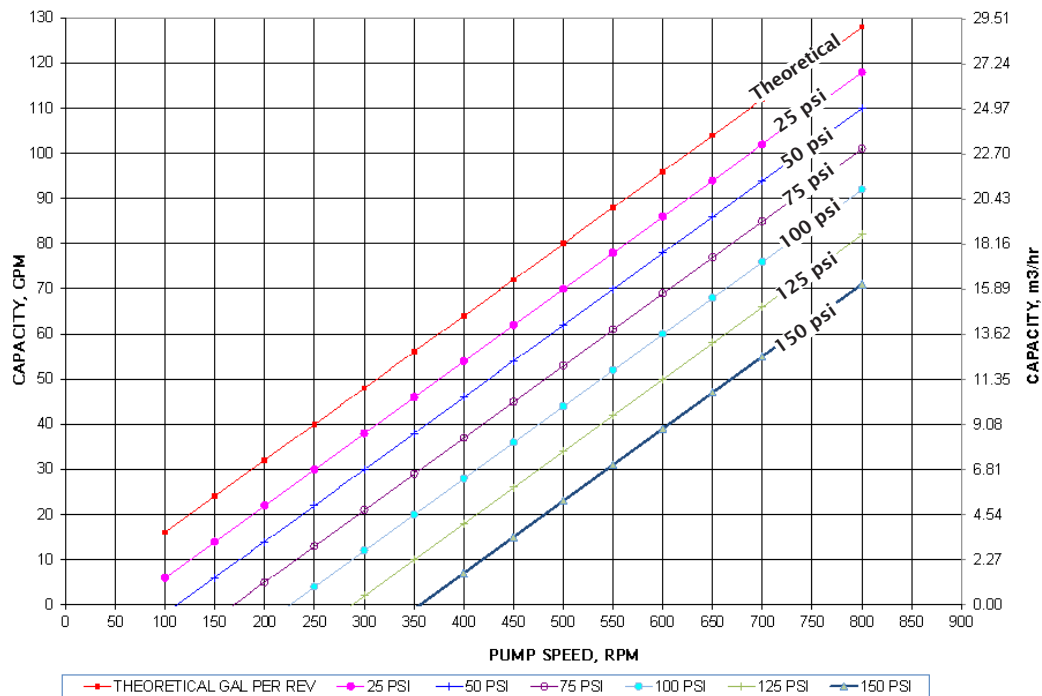




## S16 CURVES

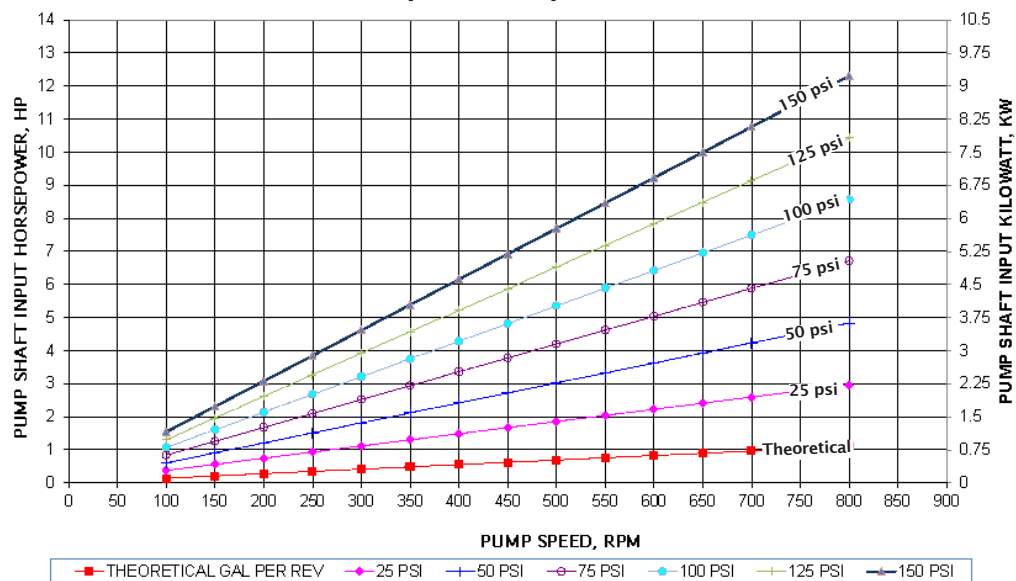
### Performance Curve - NBR Lobes\*

Based on 70°F (21°C) fresh water (1 cp) at Sea Level.  
Output will increase as viscosity of the fluid increases from 1.



\*Note: Output from lobes coated with elastomers other than NBR maybe lower. Contact Engineering for further information.

### Horsepower Requirements

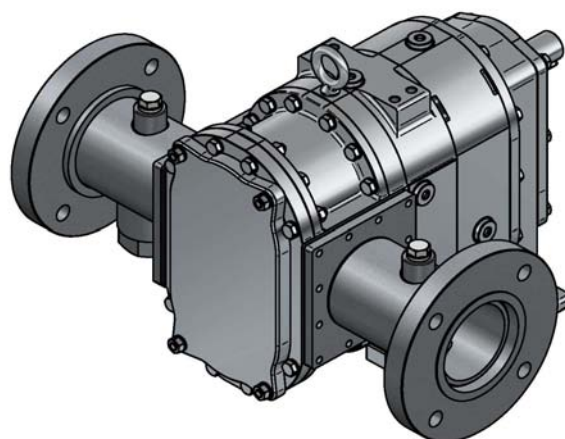




# LOBEPRO

## ROTARY PUMPS

### S16c



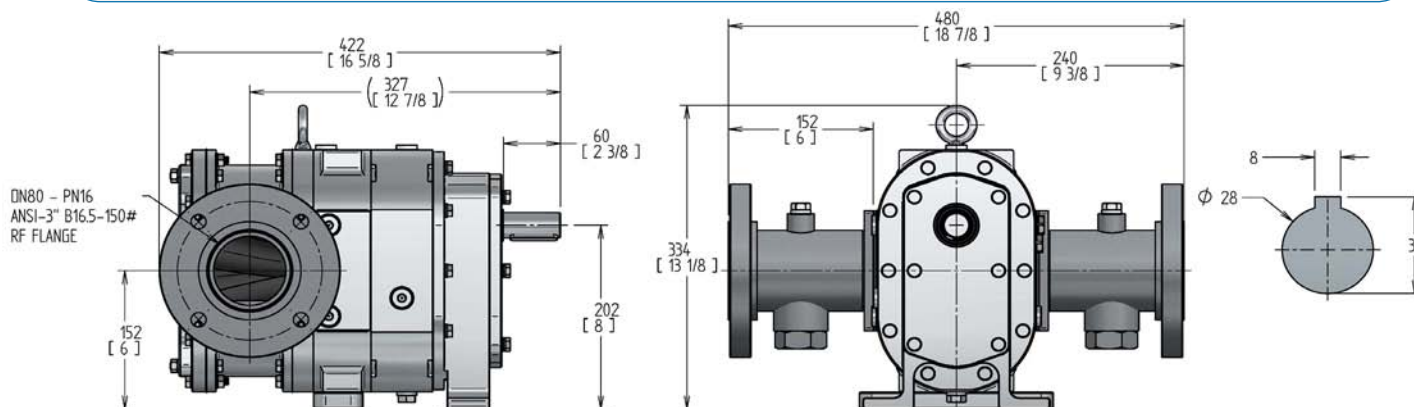
## Positive Displacement Rotary Lobe Pumps

SPECIFICATIONS	US	Metric
Rated Capacity:	0-144 gpm	0-32 M <sup>3</sup> /hr
Displacement (per 100 revolutions):	16 gal (US)	60 L
Working Pressure (continuous):	150 psi	10.3 Bar
Max. Pressure (intermittent):	175 psi	12.1 Bar
Rated Speed:	0-900 RPM	0-900 RPM
Flange Connection Class:	ANSI 16.5-150#	DN - PN 16
Flange Connection Size:	ANSI 3"	DN 80
Weight:	175 lbs	80 Kg
Solids Handling:		
Spherical Compressible	0.75"	19 mm
Spherical Hard*	1/8"	3 mm

\* Larger hard solids will pass through but may cause damage.

MODEL >	SS16c	CS16c
Service	Sludge, Mud and Slurries*	Chemical/Corrosive
<b>WETTED PARTS</b>		
<b>Rotary Lobes</b>		
Elastomer	NBR Opt. HNBR, FKM, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.
Lobe Profile	Helix	Helix
Number of lobe wings	6	6
Core	Carbon Steel	Carbon Steel
<b>Sealing Elastomers</b>		
O-rings	FKM	FKM or Engineer Recommendation
Lip seals	FKM or Engineer Recommendation	FKM or Engineer Recommendation
<b>Mechanical Seals</b>		
Mechanical Seal	Duronit	Silicon Carbide
	Opt. Tungsten Carbide, Silicon Carbide or Engineer Rec.	Opt. Tungsten Carbide or Engineer Rec.
Seal Holders	Carbon Steel with Corrosion resistant coating	Stainless Steel Type 316
<b>Wear Plates</b>	AR500 Steel (Brinell 500)	Stainless Steel Type 316
<b>Housing Segments</b>	Carbon Steel	Duplex Stainless Steel
<b>Flange Ring</b>	ASTM A36 Carbon Steel	Stainless Steel Type 316L
<b>Bolts</b>	Carbon Steel ISO 898-I	Stainless Steel A2-A4
<b>Pressure Disc</b>	Stainless Steel Type 316L	Stainless Steel Type 316L
<b>LIMITED EXPOSURE PARTS</b>		
<b>Quench Adaptor/Barrier Plate</b>	Carbon Steel	Carbon Steel
<b>Pump Cover</b>	Carbon Steel Opt. Engineering Recommendation	Carbon Steel Opt. 316 Stainless Steel
<b>NON-WETTED PARTS</b>		
<b>Quench /Seal Cooling Chamber</b>	Carbon Steel	Carbon Steel
<b>Gears</b>	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel
<b>Gear Housing</b>	Carbon Steel or ASTM A48 Grey Iron rust primed	Carbon Steel or ASTM A48 Grey Iron
<b>Shaft</b>	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel
<b>PAINTING REQUIREMENTS</b>		
<b>Standard Painting</b>	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint
	LobePro Blue	LobePro Silver

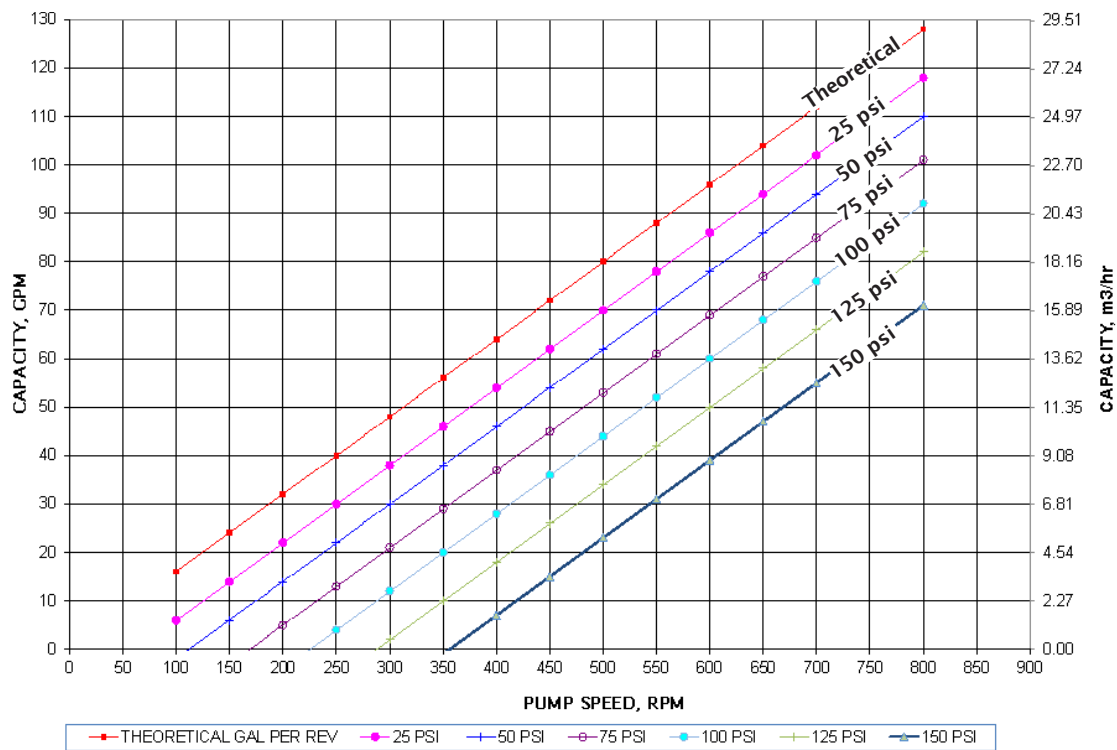
NOTE: Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. \*Consult Factory for application temperature above 80°C (175°F).



## S16 CURVES

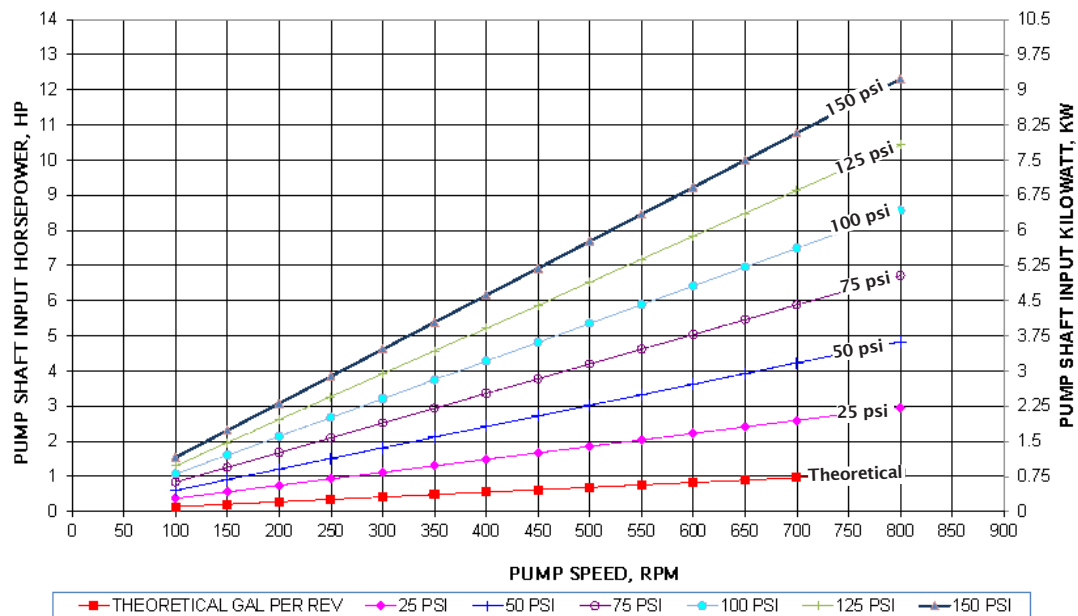
## Performance Curve - NBR Lobes\*

Based on 70°F (21°C) fresh water (1 cp) at Sea Level.  
Output will increase as viscosity of the fluid increases from 1.



\*Note: Output from lobes coated with elastomers other than NBR maybe lower. Contact Engineering for further information.

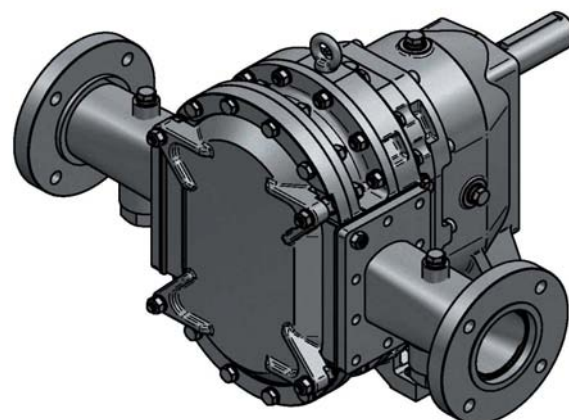
## Horsepower Requirements



# LOBEPRO

## ROTARY PUMPS

### M34



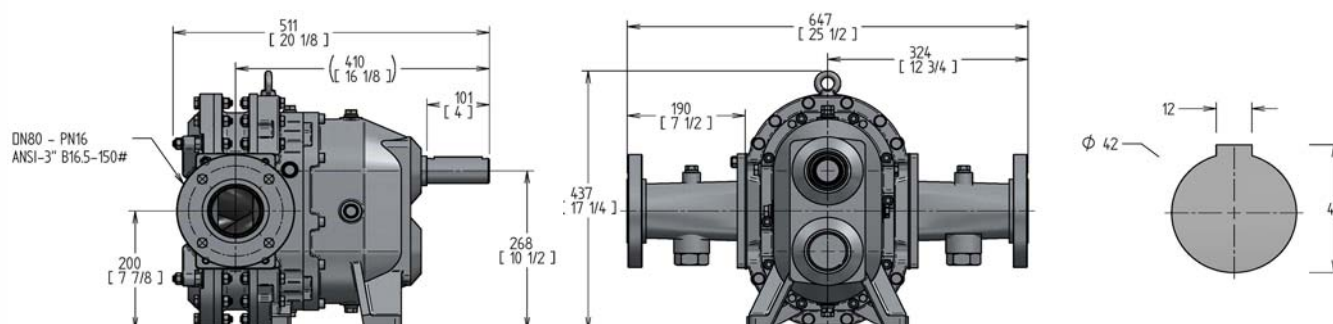
## Positive Displacement Rotary Lobe Pumps

SPECIFICATIONS	US	Metric
Rated Capacity:	0-204 gpm	0-46 m <sup>3</sup> /h
Displacement (per 100 revolutions):	34 gal (US)	129 L
Working Pressure:	145 psi	10 bar
Max. Pressure:	175 psi	12 bar
Starting Torque:	1,121 in lbf	127 N m
Rated Speed:	0-600 RPM	0-600 RPM
Shaft Diameter:	1.65"	42 mm
Flange Connection Class:	ANSI 16.5-150#	DN - PN 16
Flange Connection Size:	ANSI 3"	DN 80
Weight:	257 lbs	117 kg
Solids Handling:		
Spherical Compressible	1.5"	38 mm
Spherical Hard*	1/8"	3 mm

\* Larger hard solids will pass through but may cause damage.

MODEL >	SM34	CM34	DM34
Service	Sludge, Mud and Slurries*	Chemical/Corrosive	Oil, Gas & Abrasives
<b>WETTED PARTS</b>			
<b>Rotary Lobes</b>			
Elastomer	NBR Opt. HNBR, FKM, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.
Lobe Profile	Helix	Helix	Helix
Number of lobe wings	4	4	4
Core	Carbon Steel	Carbon Steel	Carbon Steel
<b>Sealing Elastomers</b>			
O-rings	FKM	FKM or Engineer Recommendation	FKM or Engineer Recommendation
Lip seals	FKM or Engineer Recommendation	FKM or Engineer Recommendation	FKM or Engineer Recommendation
<b>Mechanical Seals</b>			
Mechanical Seal	Duronit	Silicon Carbide	Silicon Carbide
Seal Holders	Opt. Tungsten Carbide, Silicon Carbide, or Eng. Rec.	Opt. Tungsten Carbide or Engineer Rec.	Opt. Tungsten Carbide or Engineer Rec.
Wear Plates	Carbon Steel with Corrosion resistant coating	Stainless Steel Type 316	Duplex Stainless Steel
Housing Segments	AR500 Steel (Brinell 500)	Stainless Steel Type 316L	Duplex Stainless Steel
Flange Ring	ASTM A48 Grey Iron rust primed	Duplex Stainless Steel	Duplex Stainless Steel
Bolts	ASTM A36 Carbon Steel	Stainless Steel Type 316L	Duplex Stainless Steel
Pressure Disc	Carbon Steel ISO 898-I	Stainless Steel A2-A4	Duplex Stainless Steel
	Stainless Steel Type 316L	Stainless Steel Type 316L	Duplex Stainless Steel
<b>LIMITED EXPOSURE PARTS</b>			
Quench / Seal Cooling Chamber	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron	ASTM A48 Grey Iron
Pump Cover	ASTM A48 Grey Iron rust primed	with PTFE / Ceramic Teflon etched on face	with PTFE / Ceramic Teflon etched on face
<b>NON-WETTED PARTS</b>			
Gears	ASTM A48 Grey Iron Opt. 316 Stainless Steel	ASTM A48 Grey Iron	ASTM A48 Grey Iron Opt. Duplex Stainless Steel
Gear Housing	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel
Shaft	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron	ASTM A48 Grey Iron
PAINTING REQUIREMENTS	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel
<b>PAINTING REQUIREMENTS</b>			
Standard Painting	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint
	LobePro Blue	LobePro Silver	LobePro Silver

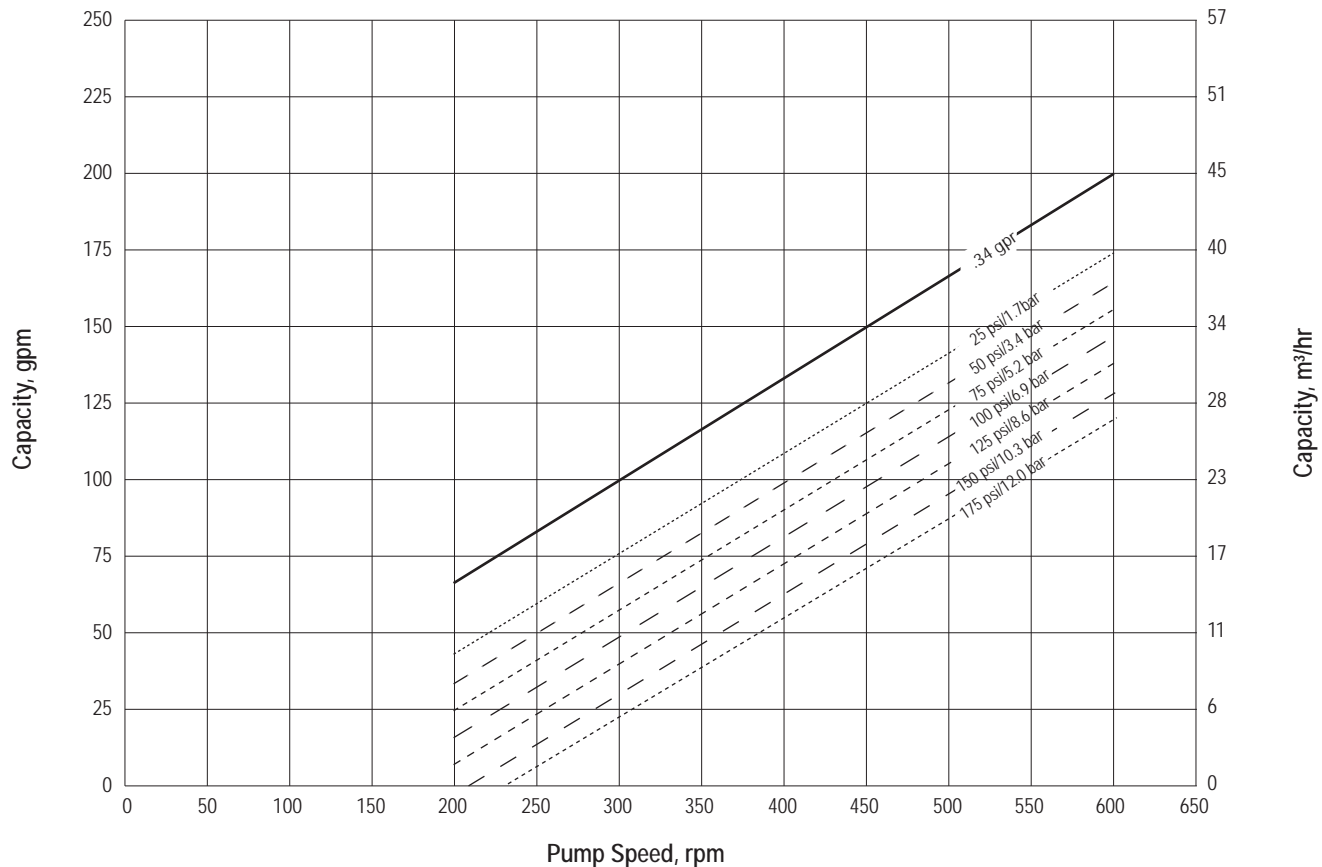
NOTE: Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. \*Consult Factory for application temperature above 80°C (175°F).



## M34 CURVES

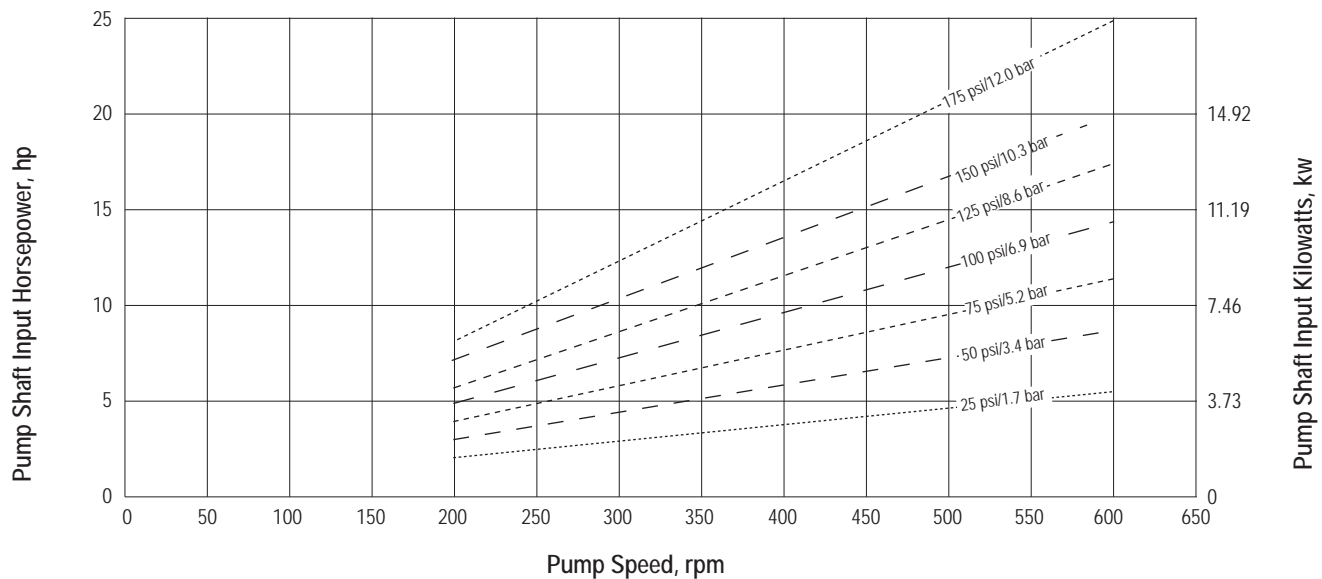
### Performance Curve - NBR Lobes\*

Based on 70°F (21°C) fresh water (1 cp) at Sea Level.  
Output will increase as viscosity of the fluid increases from 1.



\*Note: Output from lobes coated with elastomers other than NBR maybe lower. Contact Engineering for further information.

### Horsepower Requirements

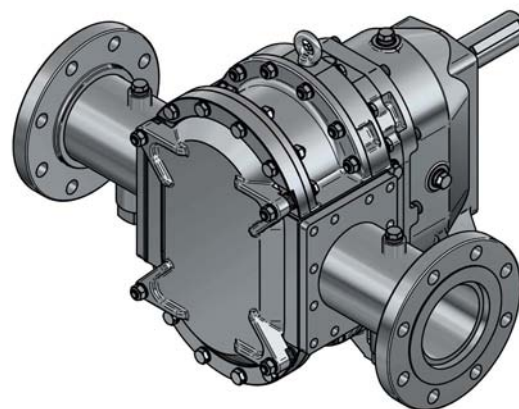




# M50

SPECIFICATIONS	US	Metric
Rated Capacity:	0-300 gpm	0-68 m <sup>3</sup> /h
Displacement (per 100 revolutions):	50 gal (US)	189 L
Working Pressure:	125 psi	8.6 bar
Max. Pressure:	150 psi	10.3 bar
Starting Torque:	1,273 in lbf	144 N m
Rated Speed:	0-600 RPM	0-600 RPM
Shaft Diameter:	1.65"	42 mm
Flange Connection Class:	ANSI 16.5-150#	DN - PN 16
Flange Connection Size:	ANSI 4"	DN 100
Weight:	290 lbs	132 kg
Solids Handling:		
Spherical Compressible	1.5"	38 mm
Spherical Hard*	1/8"	3 mm

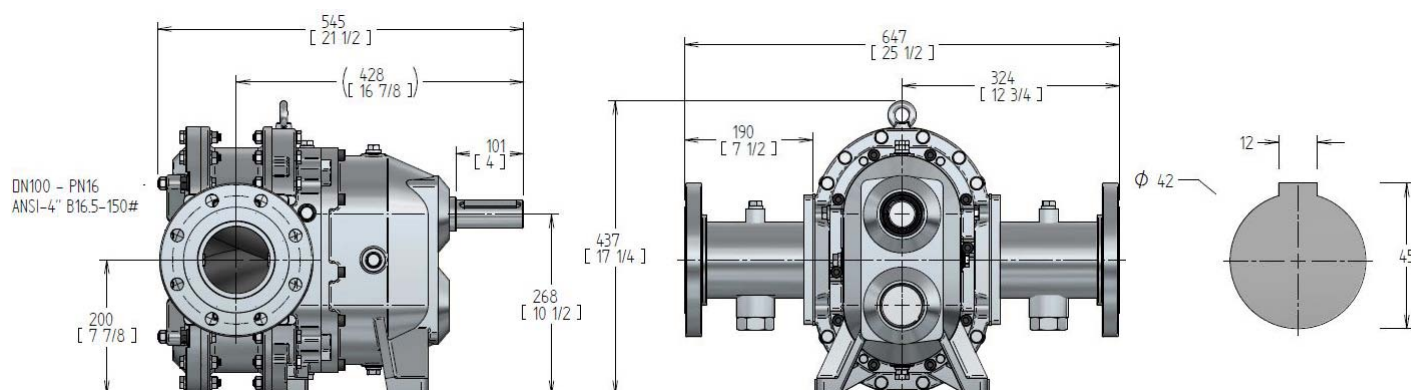
\* Larger hard solids will pass through but may cause damage.



## Positive Displacement Rotary Lobe Pumps

MODEL >	SM50	CM50	DM50
Service	Sludge, Mud and Slurries*	Chemical/Corrosive	Oil, Gas & Abrasives
<b>WETTED PARTS</b>			
<b>Rotary Lobes</b>			
Elastomer	NBR Opt. HNBR, FKM, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.
Lobe Profile	Helix	Helix	Helix
Number of lobe wings	4	4	4
Core	Carbon Steel	Carbon Steel	Carbon Steel
<b>Sealing Elastomers</b>			
O-rings	FKM	FKM or Engineer Recommendation	FKM or Engineer Recommendation
Lip seals	FKM or Engineer Recommendation	FKM or Engineer Recommendation	FKM or Engineer Recommendation
<b>Mechanical Seals</b>			
Mechanical Seal	Duronit	Silicon Carbide	Silicon Carbide
Seal Holders	Opt. Tungsten Carbide, Silicon Carbide, or Eng. Rec.	Opt. Tungsten Carbide or Engineer Rec.	Opt. Tungsten Carbide or Engineer Rec.
Wear Plates	Carbon Steel with Corrosion resistant coating	Stainless Steel Type 316	Duplex Stainless Steel
Housing Segments	ASTM A48 Grey Iron rust primed	Stainless Steel Type 316	Duplex Stainless Steel
Flange Ring	ASTM A36 Carbon Steel	Duplex Stainless Steel	Duplex Stainless Steel
Bolts	Carbon Steel ISO 898-I	Stainless Steel Type 316L	Duplex Stainless Steel
Pressure Disc	Carbon Steel ISO 898-I	Stainless Steel A2-A4	Duplex Stainless Steel
<b>LIMITED EXPOSURE PARTS</b>			
Quench /Seal Cooling Chamber	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron	ASTM A48 Grey Iron
Pump Cover	ASTM A48 Grey Iron rust primed	with PTFE / Ceramic Teflon etched on face	with PTFE / Ceramic Teflon etched on face
<b>NON-WETTED PARTS</b>			
Gears	GMA Class 9 AISI 1045 steel	ASTM A48 Grey Iron Opt. 316 Stainless Steel	ASTM A48 Grey Iron Opt. Duplex Stainless Steel
Gear Housing	GMA Class 9 AISI 1045 steel	ASTM A48 Grey Iron	ASTM A48 Grey Iron
Shaft	ASTM A48 Grey Iron rust primed	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel
<b>PAINTING REQUIREMENTS</b>			
Standard Painting	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint
	LobePro Blue	LobePro Silver	LobePro Silver

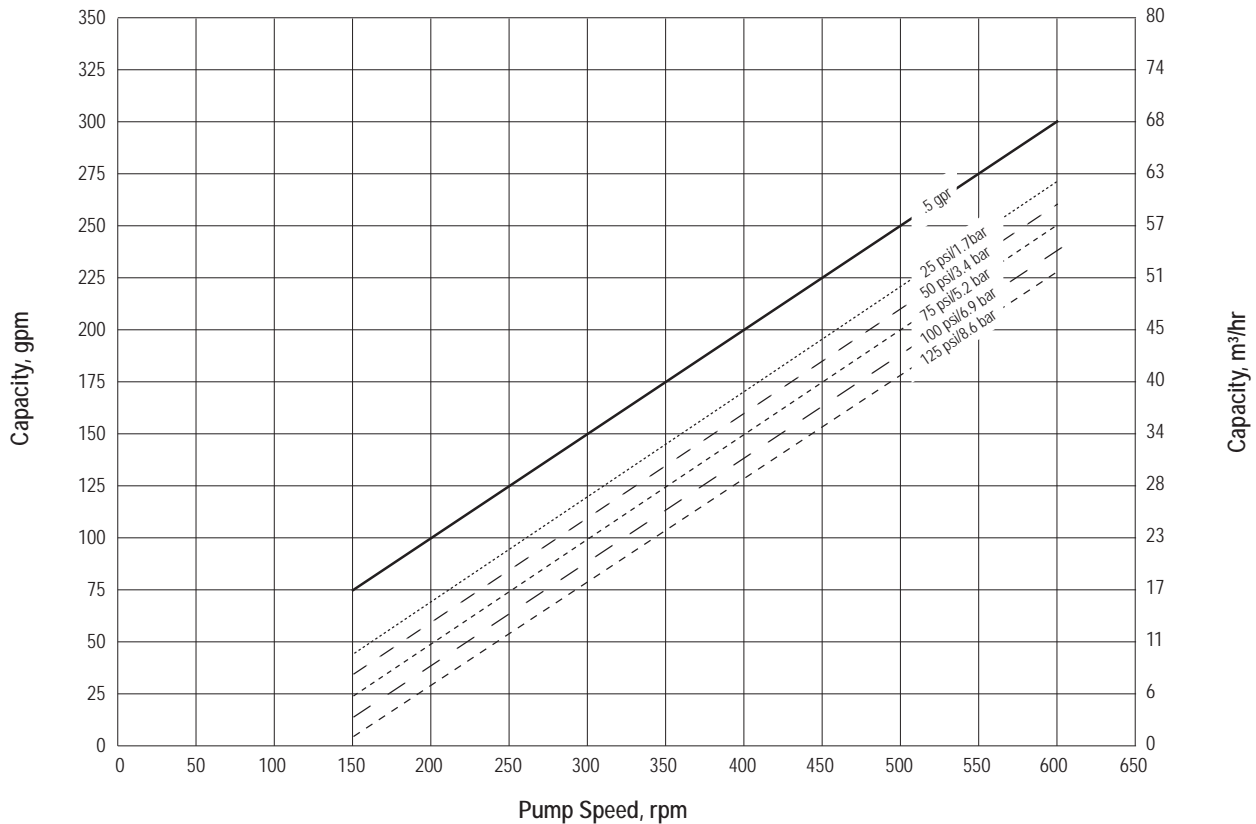
NOTE: Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. \*Consult Factory for application temperature above 80°C (175°F).



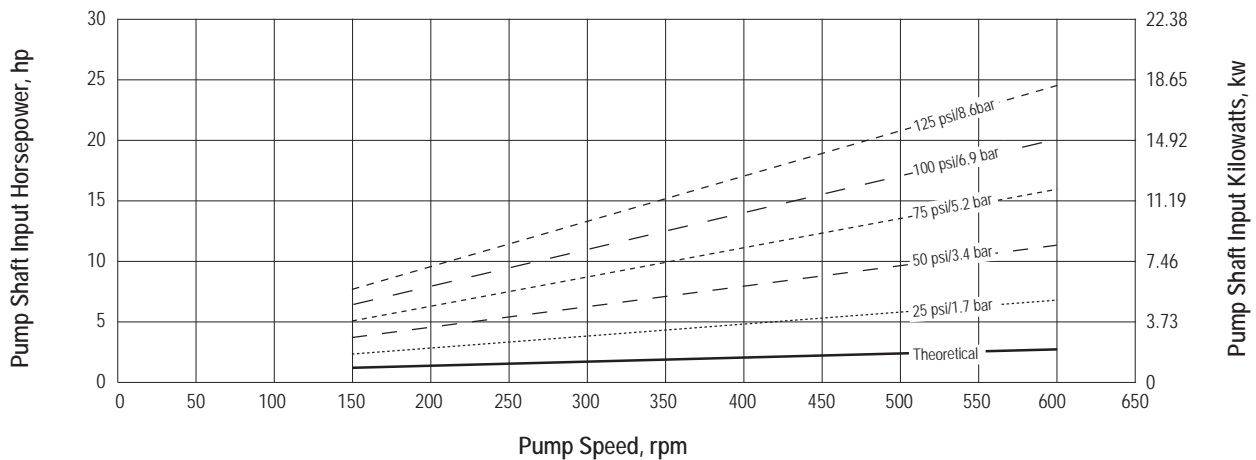
## M50 CURVES

**Performance Curve - NBR Lobes\***

Based on 70°F (21°C) fresh water (1 cp) at Sea Level.  
Output will increase as viscosity of the fluid increases from 1.



\*Note: Output from lobes coated with elastomers other than NBR maybe lower. Contact Engineering for further information.

**Horsepower Requirements**

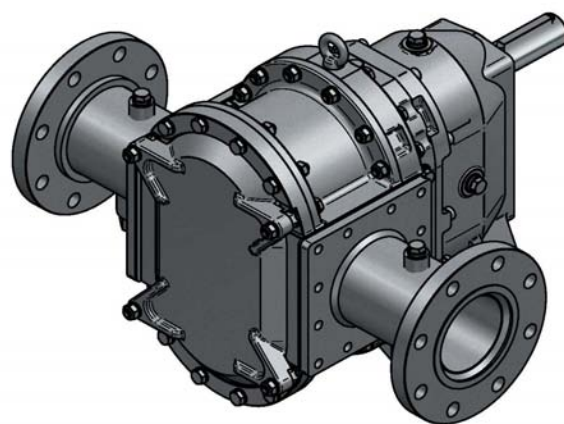




# LOBEPRO

## ROTARY PUMPS

# M68



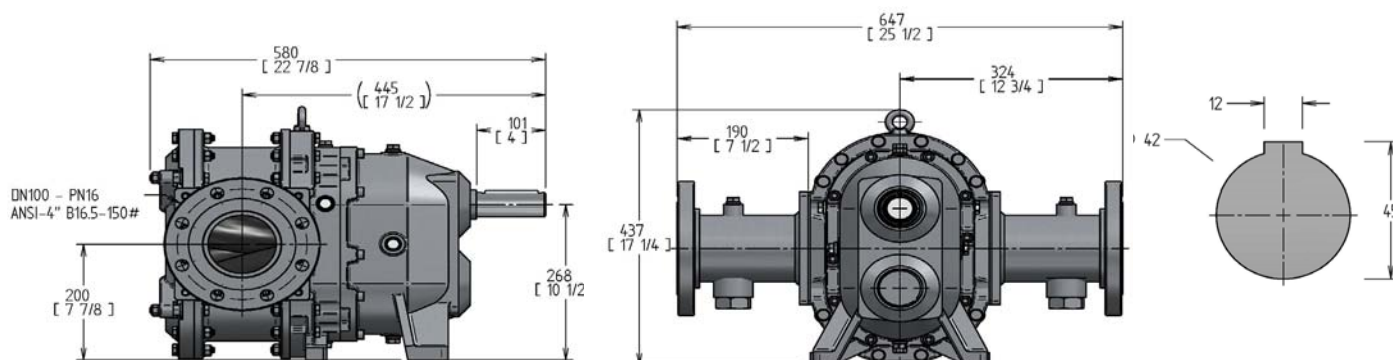
## Positive Displacement Rotary Lobe Pumps

SPECIFICATIONS	US	Metric
Rated Capacity:	0-408 gpm	0-93 m <sup>3</sup> /h
Displacement (per 100 revolutions):	68 gal (US)	256 L
Working Pressure:	100 psi	6.9 bar
Max. Pressure:	125 psi	8.6 bar
Starting Torque:	1,417 in lbf	160 N m
Rated Speed:	0-600 RPM	0-600 RPM
Shaft Diameter:	1.65"	42 mm
Flange Connection Class:	ANSI 16.5-150#	DN - PN 16
Flange Connection Size:	ANSI 4"	DN 100
Weight:	290 lbs	132 kg
Solids Handling:		
Spherical Compressible	1.5"	38 mm
Spherical Hard*	1/8"	3 mm

\* Larger hard solids will pass through but may cause damage.

MODEL >	SM68	CM68	DM68
Service	Sludge, Mud and Slurries*	Chemical/Corrosive	Oil, Gas & Abrasives
<b>WETTED PARTS</b>			
<b>Rotary Lobes</b>			
Elastomer	NBR Opt. HNBR, FKM, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.
Lobe Profile	Helix	Helix	Helix
Number of lobe wings	4	4	4
Core	Carbon Steel	Carbon Steel	Carbon Steel
<b>Sealing Elastomers</b>			
O-rings	FKM	FKM or Engineer Recommendation	FKM or Engineer Recommendation
Lip seals	FKM or Engineer Recommendation	FKM or Engineer Recommendation	FKM or Engineer Recommendation
<b>Mechanical Seals</b>			
Mechanical Seal	Duronit	Silicon Carbide	Silicon Carbide
	Opt. Tungsten Carbide, Silicon Carbide, or Eng. Rec.	Opt. Tungsten Carbide or Engineer Rec.	Opt. Tungsten Carbide or Engineer Rec.
Seal Holders	Carbon Steel with Corrosion resistant coating	Stainless Steel Type 316	Duplex Stainless Steel
Wear Plates	AR500 Steel (Brinell 500)	Stainless Steel Type 316	Duplex Stainless Steel
Housing Segments	ASTM A48 Grey Iron rust primed	Duplex Stainless Steel	Duplex Stainless Steel
Flange Ring	ASTM A36 Carbon Steel	Stainless Steel Type 316L	Duplex Stainless Steel
Bolts	Carbon Steel ISO 898-I	Stainless Steel A2-A4	Duplex Stainless Steel
Pressure Disc	Stainless Steel Type 316L	Stainless Steel Type 316L	Duplex Stainless Steel
<b>LIMITED EXPOSURE PARTS</b>			
Quench / Seal Cooling Chamber	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron with PTFE / Ceramic Teflon etched on face	ASTM A48 Grey Iron with PTFE / Ceramic Teflon etched on face
Pump Cover	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron Opt. 316 Stainless Steel	ASTM A48 Grey Iron Opt. Duplex Stainless Steel
<b>NON-WETTED PARTS</b>			
Gears	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel
Gear Housing	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron	ASTM A48 Grey Iron
Shaft	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel
<b>PAINTING REQUIREMENTS</b>			
Standard Painting	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint
	LobePro Blue	LobePro Silver	LobePro Silver

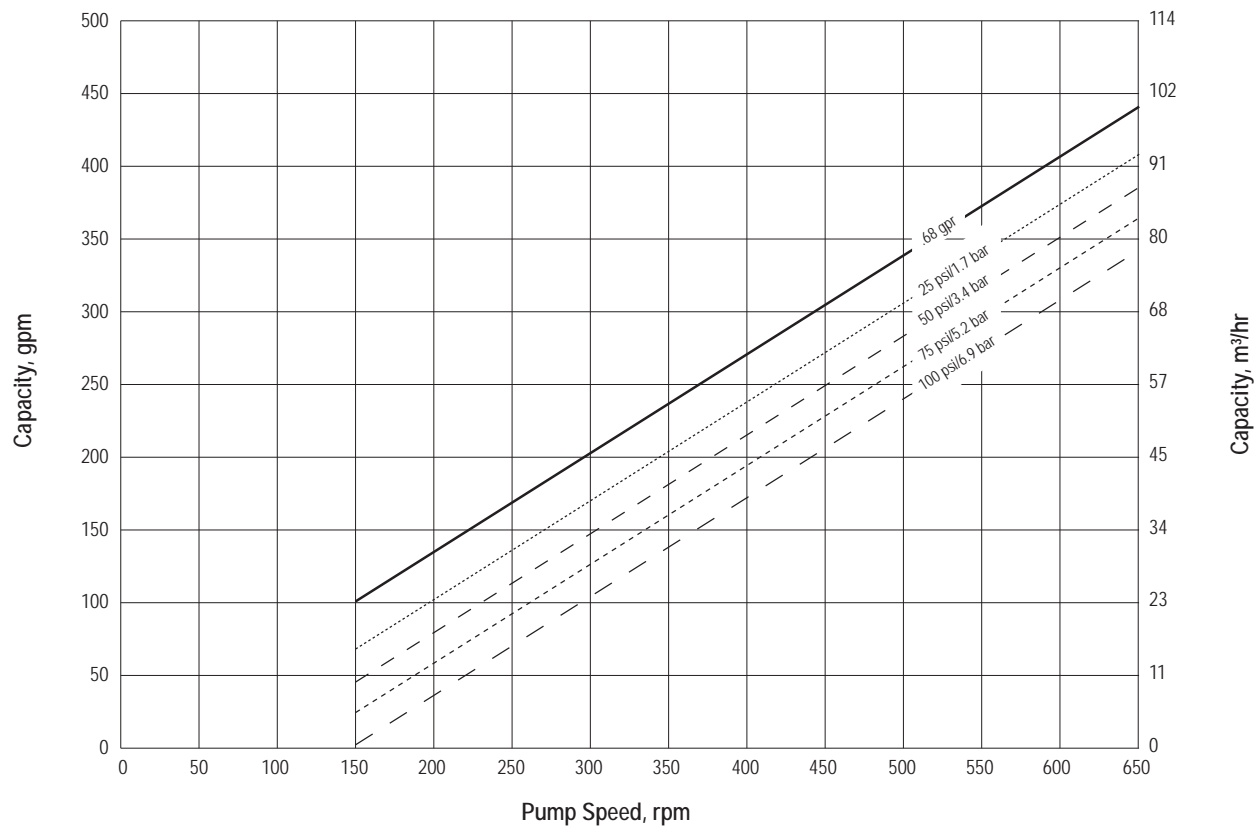
NOTE: Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. \*Consult Factory for application temperature above 80°C (175°F).





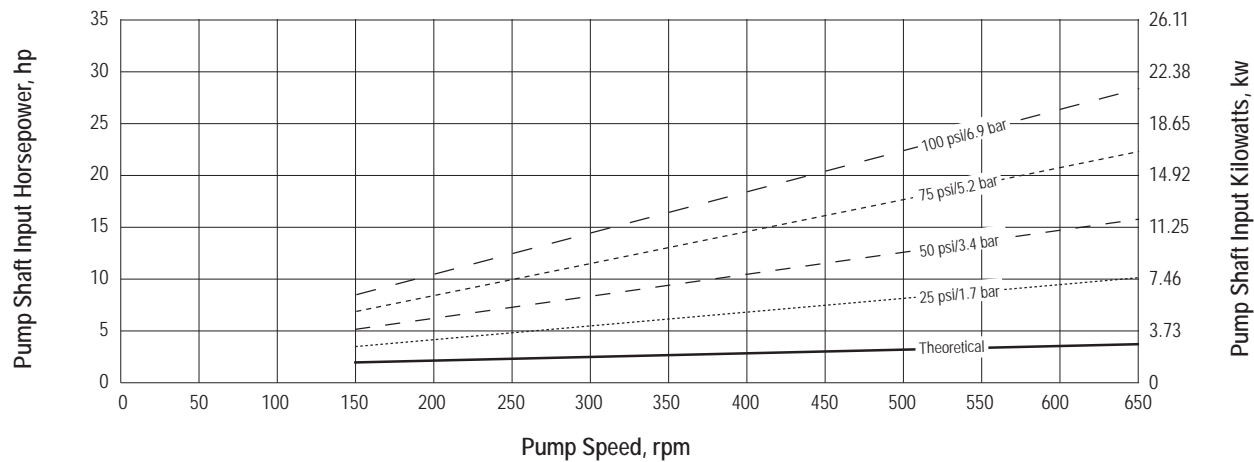
M68 CURVES

**Performance Curve - NBR Lobes\***  
Based on 70°F (21°C) fresh water (1 cp) at Sea Level.  
Output will increase as viscosity of the fluid increases from 1.



\*Note: Output from lobes coated with elastomers other than NBR maybe lower. Contact Engineering for further information.

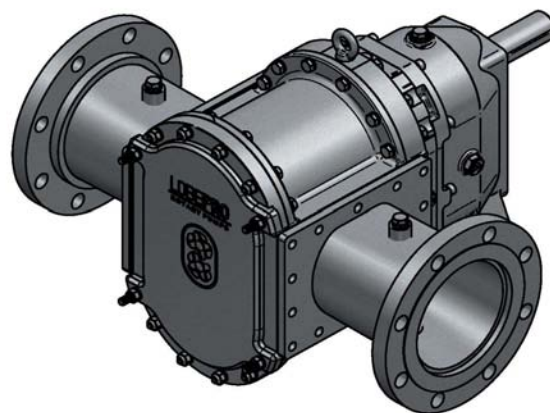
**Horsepower Requirements**



# LOBEPRO

## ROTARY PUMPS

# M100



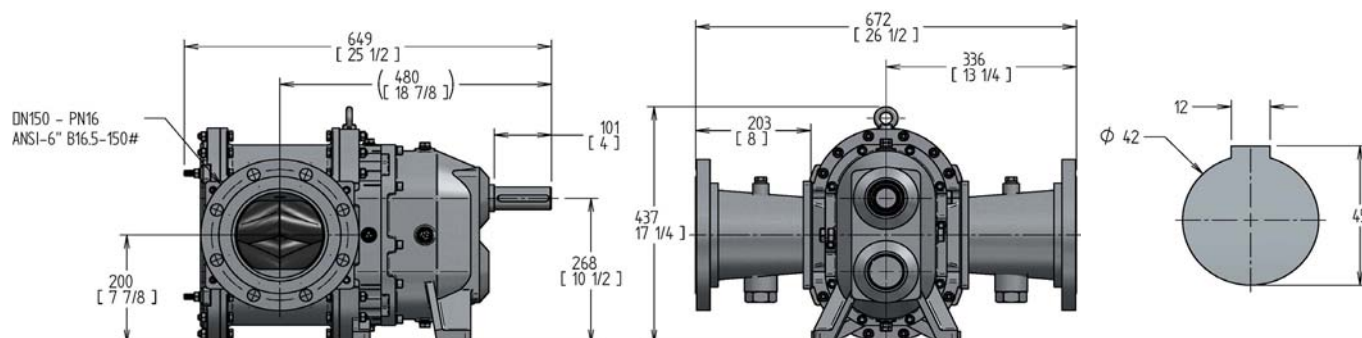
## Positive Displacement Rotary Lobe Pumps

SPECIFICATIONS	US	Metric
Rated Capacity:	0-600gpm	0-136 m <sup>3</sup> /h
Displacement (per 100 revolutions):	100 gal (US)	377 L
Working Pressure:	50 psi	3.5 bar
Max. Pressure:	75 psi	5.2 bar
Starting Torque:	1,685 in lbf	190 N m
Rated Speed:	0-600 RPM	0-600 RPM
Shaft Diameter:	1.65"	42 mm
Flange Connection Class:	ANSI 16.5-150#	DN – PN 16
Flange Connection Size:	ANSI 6"	DN 150
Weight:	390 lbs	175 kg
Solids Handling:		
Spherical Compressible	1.5"	38 mm
Spherical Hard*	1/8"	3 mm

\* Larger hard solids will pass through but may cause damage.

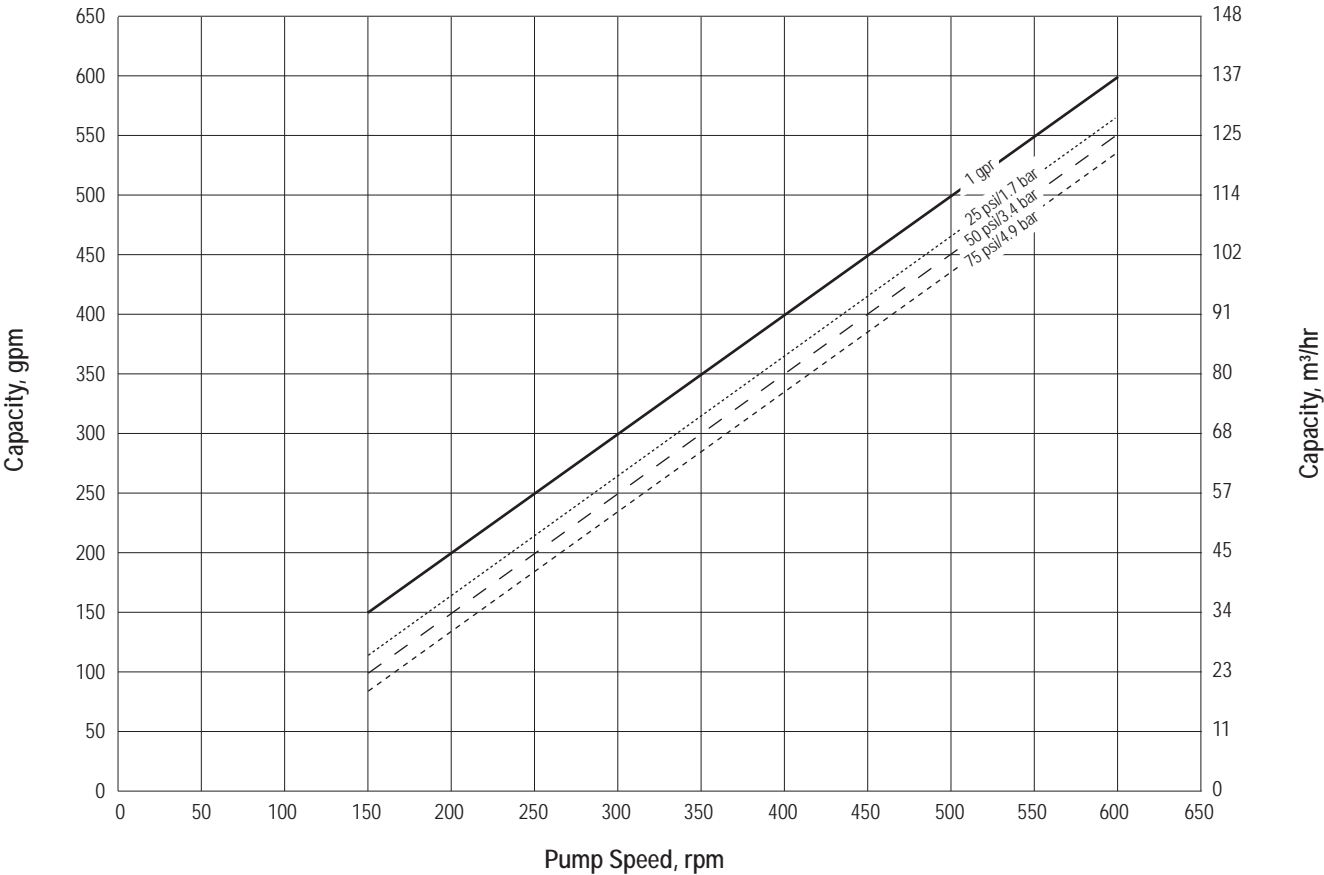
MODEL >	SM100	CM100	DM100
Service	Sludge, Mud and Slurries*	Chemical/Corrosive	Oil, Gas & Abrasives
<b>WETTED PARTS</b>			
<b>Rotary Lobes</b>			
Elastomer	NBR Opt. HNBR, FKM, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.
Lobe Profile	Helix	Helix	Helix
Number of lobe wings	4	4	4
Core	Carbon Steel	Carbon Steel	Carbon Steel
<b>Sealing Elastomers</b>			
O-rings	FKM	FKM or Engineer Recommendation	FKM or Engineer Recommendation
Lip seals	FKM or Engineer Recommendation	FKM or Engineer Recommendation	FKM or Engineer Recommendation
<b>Mechanical Seals</b>			
Mechanical Seal	Duronit	Silicon Carbide	Silicon Carbide
Seal Holders	Opt. Tungsten Carbide, Silicon Carbide, or Eng. Rec.	Opt. Tungsten Carbide or Engineer Rec.	Opt. Tungsten Carbide or Engineer Rec.
Wear Plates	Carbon Steel with Corrosion resistant coating	Stainless Steel Type 316	Duplex Stainless Steel
Housing Segments	AR500 Steel (Brinell 500)	Stainless Steel Type 316	Duplex Stainless Steel
Flange Ring	ASTM A48 Grey Iron rust primed	Duplex Stainless Steel	Duplex Stainless Steel
Bolts	ASTM A36 Carbon Steel	Stainless Steel Type 316L	Duplex Stainless Steel
Pressure Disc	Carbon Steel ISO 898-I	Stainless Steel A2-A4	Duplex Stainless Steel
	Stainless Steel Type 316L	Stainless Steel Type 316L	Duplex Stainless Steel
<b>LIMITED EXPOSURE PARTS</b>			
Quench /Seal Cooling Chamber	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron	ASTM A48 Grey Iron
Pump Cover	with PTFE / Ceramic Teflon etched on face	with PTFE / Ceramic Teflon etched on face	with PTFE / Ceramic Teflon etched on face
	ASTM A48 Grey Iron Opt. 316 Stainless Steel	ASTM A48 Grey Iron Opt. 316 Stainless Steel	ASTM A48 Grey Iron Opt. Duplex Stainless Steel
<b>NON-WETTED PARTS</b>			
Gears	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel
Gear Housing	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron	ASTM A48 Grey Iron
Shaft	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel
<b>PAINTING REQUIREMENTS</b>			
Standard Painting	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint
	LobePro Blue	LobePro Silver	LobePro Silver

NOTE: Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. \*Consult Factory for application temperature above 80°C (175°F).



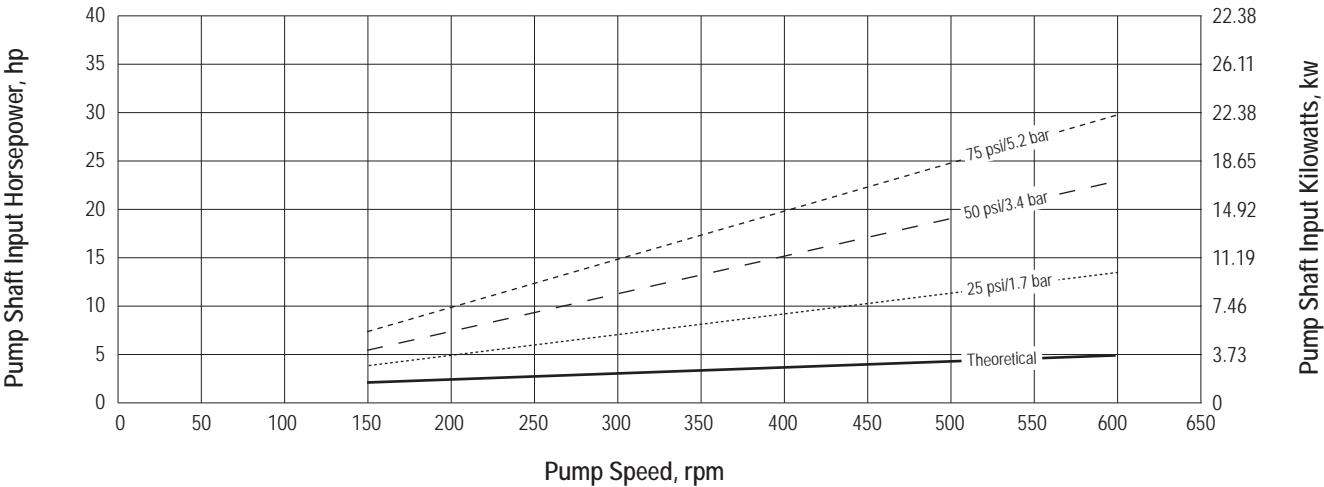
M100 CURVES

**Performance Curve - NBR Lobes\***  
Based on 70°F (21°C) fresh water (1 cp) at Sea Level.  
Output will increase as viscosity of the fluid increases from 1.



\*Note: Output from lobes coated with elastomers other than NBR maybe lower. Contact Engineering for further information.

**Horsepower Requirements**





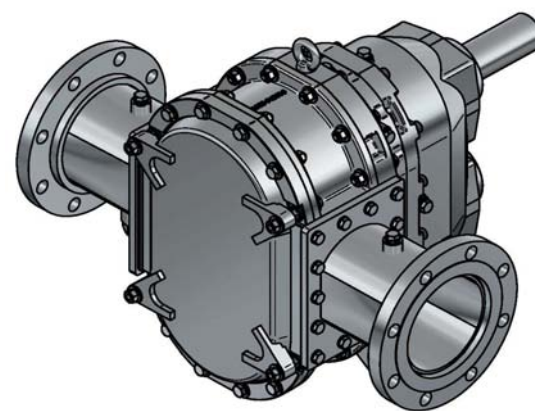
# LOBEPRO

## ROTARY PUMPS

# L133

SPECIFICATIONS	US	Metric
Rated Capacity:	0-665 gpm	0-151 m <sup>3</sup> /h
Displacement (per 100 revolutions):	133 gal (US)	501 L
Working Pressure:	125 psi	8.6 bar
Max. Pressure:	140 psi	9.7 bar
Starting Torque:	2,860 in lbf	323 N m
Rated Speed:	0-500 RPM	0-500 RPM
Shaft Diameter:	2.4"	60 mm
Flange Connection Class:	ANSI 16.5-150#	DN - PN 16
Flange Connection Size:	ANSI 6"	DN 150
Weight:	585 lbs	265 kg
Solids Handling		
Spherical Compressible	3"	76 mm
Spherical Hard*	1/8"	3 mm

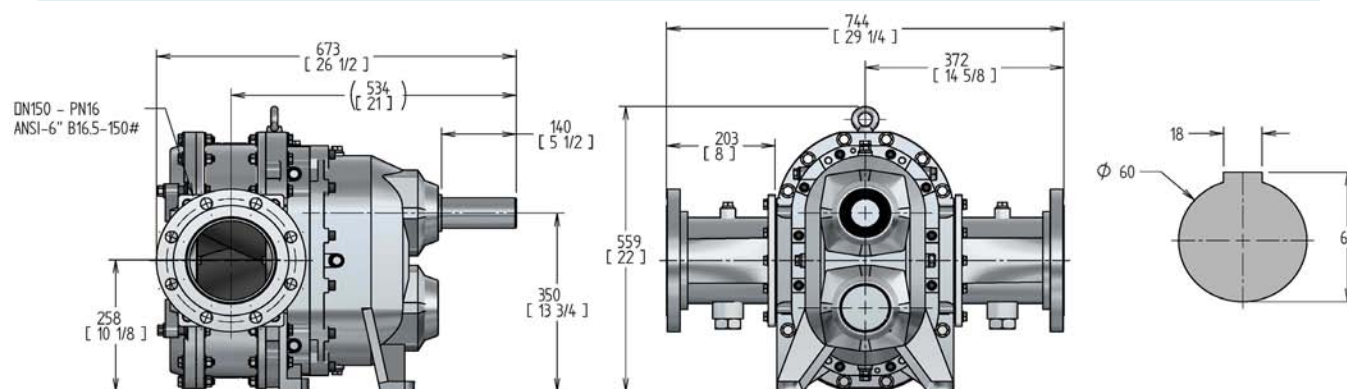
\* Larger hard solids will pass through but may cause damage.



## Positive Displacement Rotary Lobe Pumps

MODEL >	SL133	CL133	DL133
Service	Sludge, Mud and Slurries*	Chemical/Corrosive	Oil, Gas & Abrasives
<b>WETTED PARTS</b>			
<b>Rotary Lobes</b>			
Elastomer	NBR Opt. HNBR, FKM, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.
Lobe Profile	Helix	Helix	Helix
Number of lobe wings	4	4	4
Core	Carbon Steel	Carbon Steel	Carbon Steel
<b>Sealing Elastomers</b>			
O-rings	FKM	FKM or Engineer Recommendation	FKM or Engineer Recommendation
Lip seals	FKM or Engineer Recommendation	FKM or Engineer Recommendation	FKM or Engineer Recommendation
<b>Mechanical Seals</b>			
Mechanical Seal	Duronit	Silicon Carbide	Silicon Carbide
Seal Holders	Opt. Tungsten Carbide, Silicon Carbide, or Eng. Rec.	Opt. Tungsten Carbide or Engineer Rec.	Opt. Tungsten Carbide or Engineer Rec.
	Carbon Steel with Corrosion resistant coating	Stainless Steel Type 316	Duplex Stainless Steel
Wear Plates	AR500 Steel (Brinell 500)	Stainless Steel Type 316	Duplex Stainless Steel
Housing Segments	ASTM A48 Grey Iron rust primed	Duplex Stainless Steel	Duplex Stainless Steel
Flange Ring	ASTM A36 Carbon Steel	Stainless Steel Type 316L	Duplex Stainless Steel
Bolts	Carbon Steel ISO 898-I	Stainless Steel A2-A4	Duplex Stainless Steel
Pressure Disc	Stainless Steel Type 316L	Stainless Steel Type 316L	Duplex Stainless Steel
<b>LIMITED EXPOSURE PARTS</b>			
Quench /Seal Cooling Chamber	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron with PTFE / Ceramic Teflon etched on face	ASTM A48 Grey Iron with PTFE / Ceramic Teflon etched on face
Pump Cover	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron Opt. 316 Stainless Steel	ASTM A48 Grey Iron Opt. Duplex Stainless Steel
<b>NON-WETTED PARTS</b>			
Gears	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel
Gear Housing	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron	ASTM A48 Grey Iron
Shaft	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel
<b>PAINTING REQUIREMENTS</b>			
Standard Painting	SSPC/SP6 Sandblast Paint LobePro Blue	SSPC/SP6 Sandblast Paint LobePro Silver	SSPC/SP6 Sandblast Paint LobePro Silver

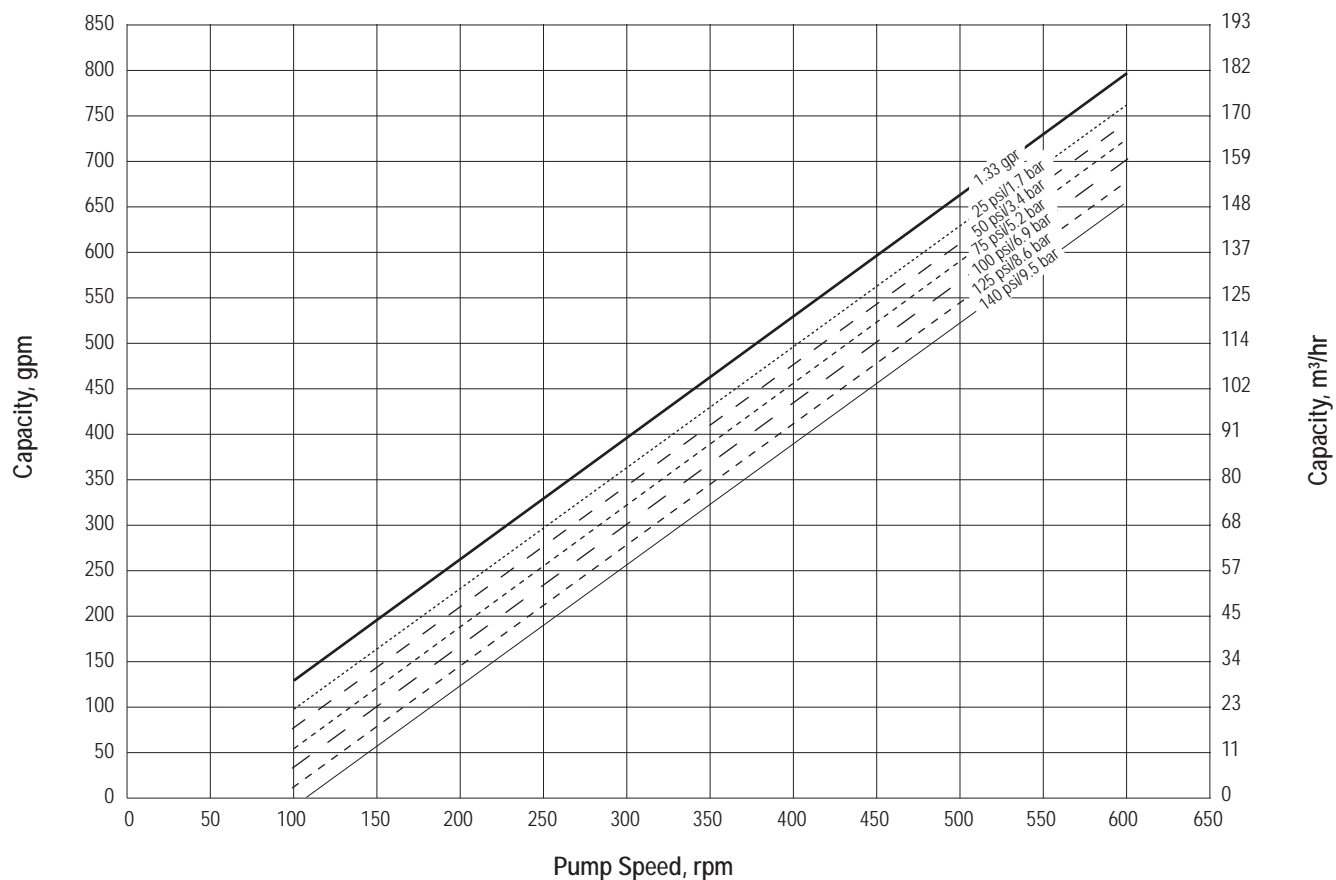
NOTE: Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. \*Consult Factory for application temperature above 80°C (175°F).



## L133 CURVES

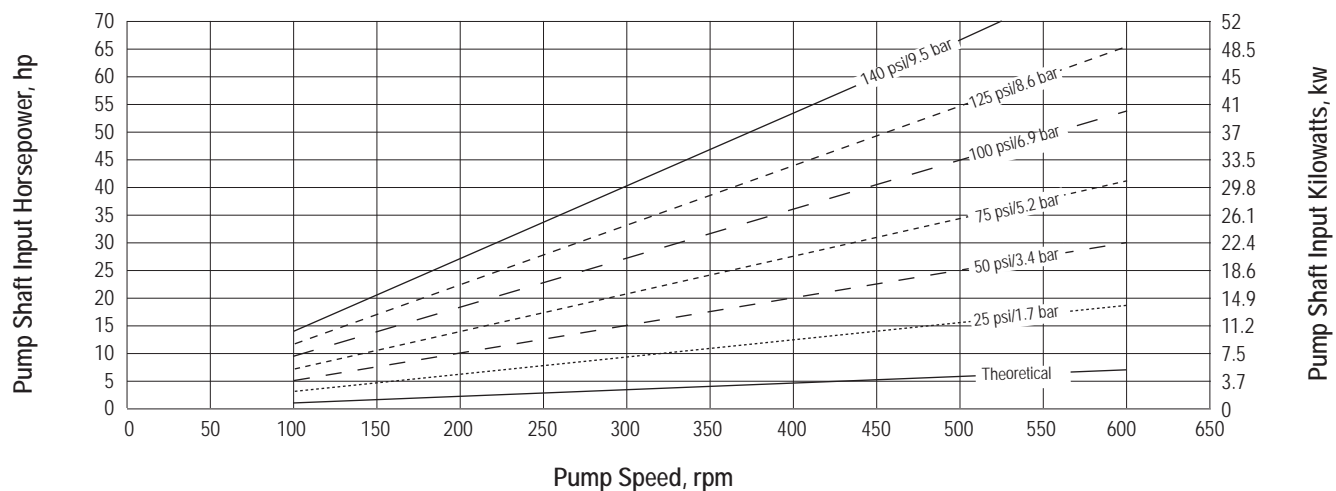
### Performance Curve - NBR Lobes\*

Based on 70°F (21°C) fresh water (1 cp) at Sea Level.  
Output will increase as viscosity of the fluid increases from 1.



\*Note: Output from lobes coated with elastomers other than NBR maybe lower. Contact Engineering for further information.

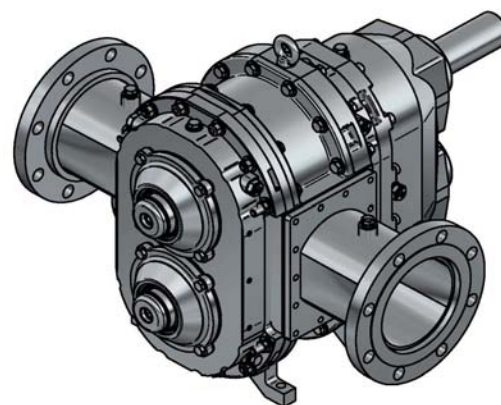
### Horsepower Requirements



# LOBEPRO

## ROTARY PUMPS

### L133d



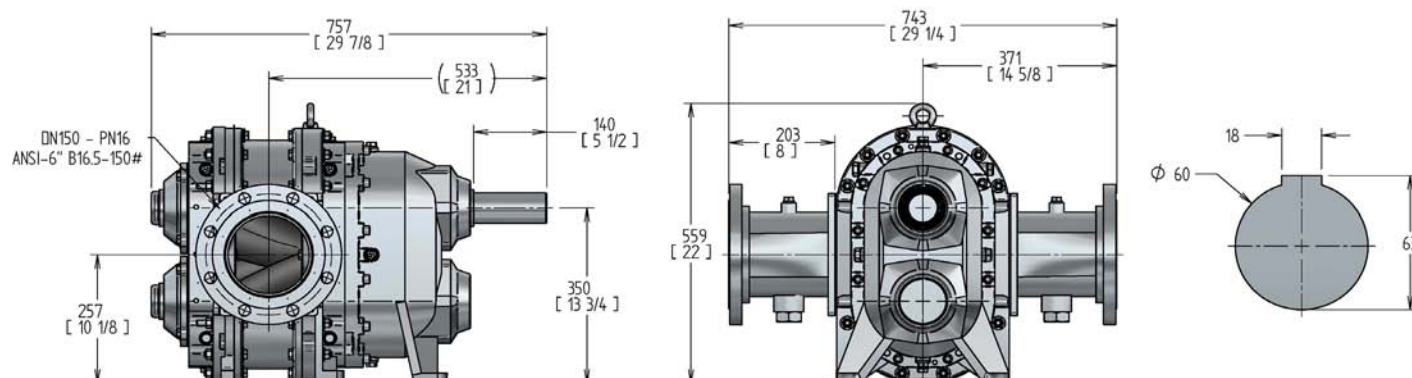
## Positive Displacement Rotary Lobe Pumps

SPECIFICATIONS	US	Metric
Rated Capacity:	0-665 gpm	0-151 m <sup>3</sup> /h
Displacement (per 100 revolutions):	133 gal (US)	501 L
Working Pressure:	150 psi	10.3 bar
Max. Pressure:	175 psi	12.1 bar
Starting Torque:	3,857 in lbf	436 N m
Rated Speed:	0-500 RPM	0-500 RPM
Shaft Diameter:	2.4"	60 mm
Flange Connection Class:	ANSI 16.5-150#	DN - PN 16
Flange Connection Size:	ANSI 6"	DN 150
Weight:	660 lbs	300 kg
Solids Handling		
Spherical Compressible	3"	76 mm
Spherical Hard	1/8"	3 mm

\* Larger hard solids will pass through but may cause damage.

MODEL >	SL133d	CL133d	DL133d
Service	Sludge, Mud and Slurries*	Chemical/Corrosive	Oil, Gas & Abrasives
<b>WETTED PARTS</b>			
<b>Rotary Lobes</b>			
Elastomer	NBR Opt. HNBR, FKM, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.
Lobe Profile	Helix	Helix	Helix
Number of lobe wings	4	4	4
Core	Carbon Steel	Carbon Steel	Carbon Steel
<b>Sealing Elastomers</b>			
O-rings	FKM	FKM or Engineer Recommendation	FKM or Engineer Recommendation
Lip seals	FKM or Engineer Recommendation	FKM or Engineer Recommendation	FKM or Engineer Recommendation
<b>Mechanical Seals</b>			
Mechanical Seal	Duronit	Silicon Carbide	Silicon Carbide
Seal Holders	Opt. Tungsten Carbide, Silicon Carbide, or Eng. Rec.	Opt. Tungsten Carbide or Engineer Rec.	Opt. Tungsten Carbide or Engineer Rec.
	Carbon Steel with Corrosion resistant coating	Stainless Steel Type 316	Duplex Stainless Steel
Wear Plates	AR500 Steel (Brinell 500)	Stainless Steel Type 316	Duplex Stainless Steel
Housing Segments	ASTM A48 Grey Iron rust primed	Duplex Stainless Steel	Duplex Stainless Steel
Flange Ring	ASTM A36 Carbon Steel	Stainless Steel Type 316L	Duplex Stainless Steel
Bolts	Carbon Steel ISO 898-I	Stainless Steel A2-A4	Duplex Stainless Steel
Pressure Disc	Stainless Steel Type 316L	Stainless Steel Type 316L	Duplex Stainless Steel
<b>LIMITED EXPOSURE PARTS</b>			
Quench/Seal Cooling Chamber	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron with PTFE / Ceramic Teflon etched on face	ASTM A48 Grey Iron with PTFE / Ceramic Teflon etched on face
Pump Cover - Door/Ld Assembly	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron Opt. Engineer Rec.	ASTM A48 Grey Iron Opt. Engineer Rec.
<b>NON-WETTED PARTS</b>			
Gears	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel
Gear Housing	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron	ASTM A48 Grey Iron
Shaft	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel
<b>PAINTING REQUIREMENTS</b>			
Standard Painting	SSPC/SP6 Sandblast Paint LobePro Blue	SSPC/SP6 Sandblast Paint LobePro Silver	SSPC/SP6 Sandblast Paint LobePro Silver

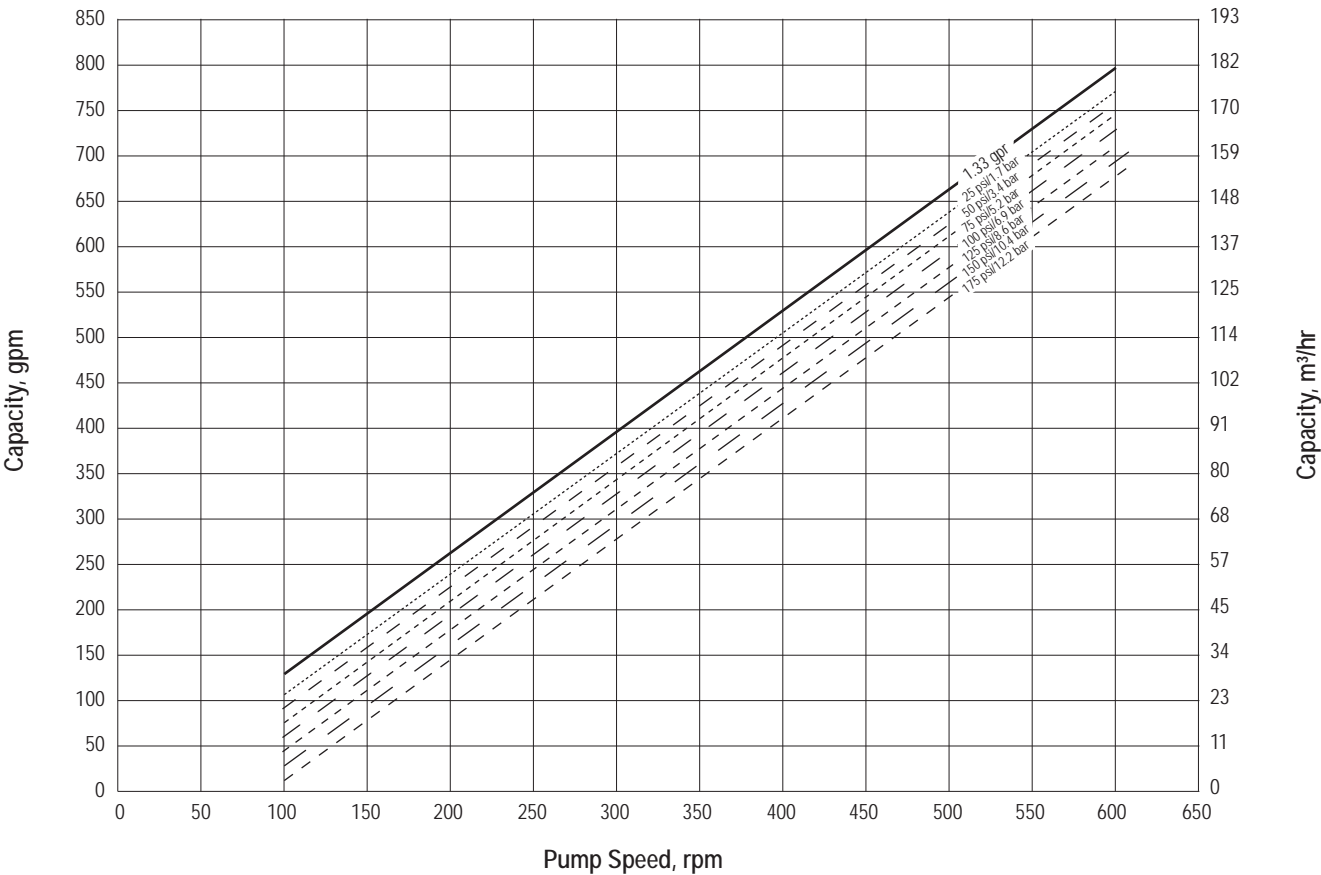
NOTE: Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. \*Consult Factory for application temperature above 80°C (175°F).





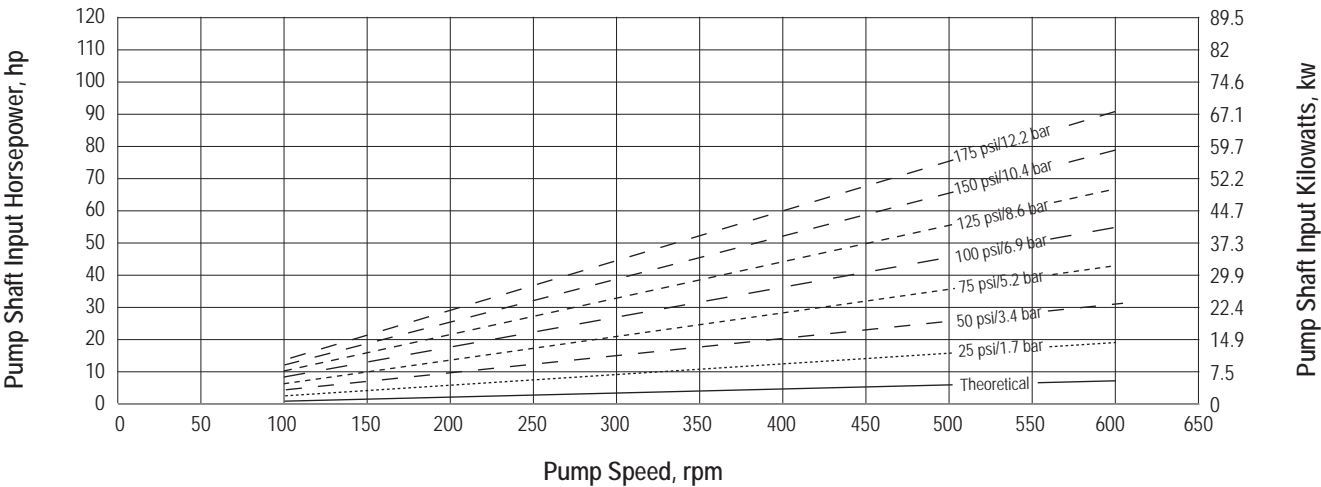
L133d CURVES

**Performance Curve - NBR Lobes\***  
Based on 70°F (21°C) fresh water (1 cp) at Sea Level.  
Output will increase as viscosity of the fluid increases from 1.



\*Note: Output from lobes coated with elastomers other than NBR maybe lower. Contact Engineering for further information.

**Horsepower Requirements**

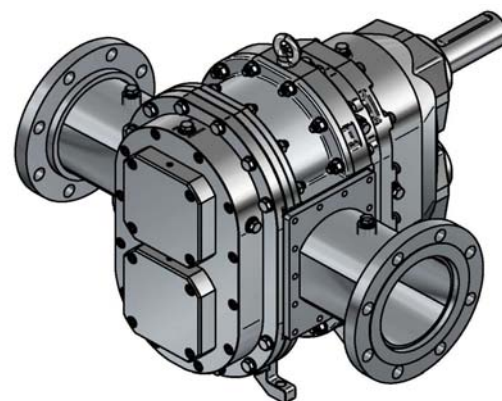




# LOBEPRO

## ROTARY PUMPS

### L133e



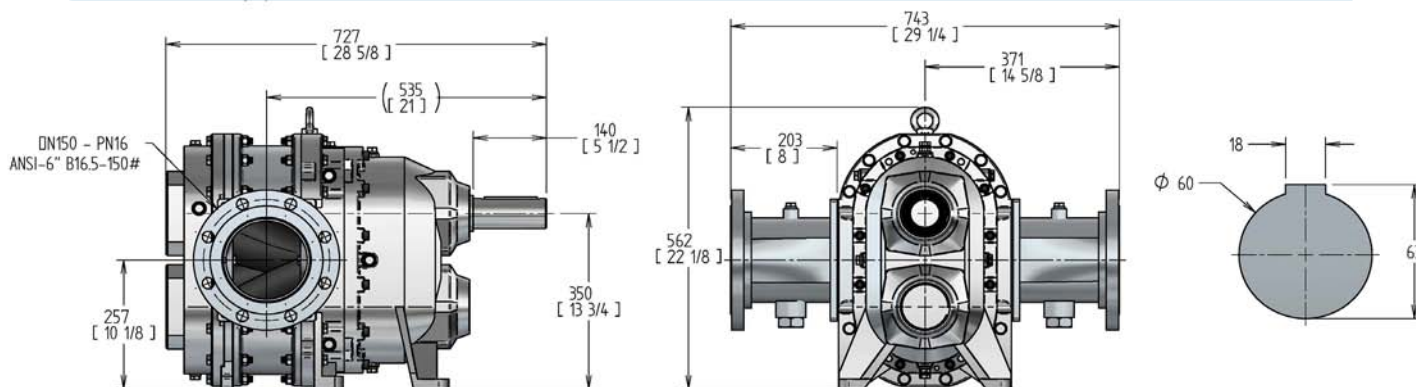
## Positive Displacement Rotary Lobe Pumps

SPECIFICATIONS	US	Metric
Rated Capacity:	0-665 gpm	0-151 m <sup>3</sup> /h
Displacement (per 100 revolutions):	133 gal (US)	501 L
Working Pressure:	175 psi	12 bar
Max. Pressure:	200 psi	13.8 bar
Starting Torque:	3,857 in lbf	436 N m
Rated Speed:	0-500 RPM	0-500 RPM
Shaft Diameter:	2.4"	60 mm
Flange Connection Class:	ANSI 16.5-150#	DN - PN 16
Flange Connection Size:	ANSI 6"	DN 150
Weight:	685 lbs	311 kg
Solids Handling		
Spherical Compressible	3"	76 mm
Spherical Hard	1/8"	3 mm

\* Larger hard solids will pass through but may cause damage.

MODEL >	SL133e	CL133e	DL133e
Service	Sludge, Mud and Slurries*	Chemical/Corrosive	Oil, Gas & Abrasives
<b>WETTED PARTS</b>			
<b>Rotary Lobes</b>			
Elastomer	NBR Opt. HNBR, FKM, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.
Lobe Profile	Helix	Helix	Helix
Number of lobe wings	4	4	4
Core	Carbon Steel	Carbon Steel	Carbon Steel
<b>Sealing Elastomers</b>			
O-rings	FKM	FKM or Engineer Recommendation	FKM or Engineer Recommendation
Lip seals	FKM or Engineer Recommendation	FKM or Engineer Recommendation	FKM or Engineer Recommendation
<b>Mechanical Seals</b>			
Mechanical Seal	Duronit	Silicon Carbide	Silicon Carbide
Seal Holders	Opt. Tungsten Carbide, Silicon Carbide, or Eng. Rec.	Opt. Tungsten Carbide or Engineer Rec.	Opt. Tungsten Carbide or Engineer Rec.
	Carbon Steel with Corrosion resistant coating	Stainless Steel Type 316	Duplex Stainless Steel
<b>Wear Plates</b>	AR500 Steel (Brinell 500)	Stainless Steel Type 316	Duplex Stainless Steel
<b>Housing Segments</b>	ASTM A48 Grey Iron rust primed	Duplex Stainless Steel	Duplex Stainless Steel
<b>Flange Ring</b>	ASTM A36 Carbon Steel	Stainless Steel Type 316L	Duplex Stainless Steel
<b>Bolts</b>	Carbon Steel ISO 898-I	Stainless Steel A2-A4	Duplex Stainless Steel
<b>Pressure Disc</b>	Stainless Steel Type 316L	Stainless Steel Type 316L	Duplex Stainless Steel
<b>LIMITED EXPOSURE PARTS</b>			
<b>Quench /Seal Cooling Chamber</b>	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron	ASTM A48 Grey Iron
		with PTFE / Ceramic Teflon etched on face	with PTFE / Ceramic Teflon etched on face
<b>Pump Cover - Door/Le Assembly</b>	Carbon Steel	Carbon Steel Opt. Engineer Rec.	Carbon Steel Opt. Engineer Rec.
<b>NON-WETTED PARTS</b>			
<b>Gears</b>	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel
<b>Gear Housing</b>	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron	ASTM A48 Grey Iron
<b>Shaft</b>	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel
<b>PAINTING REQUIREMENTS</b>			
<b>Standard Painting</b>	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint
	LobePro Blue	LobePro Silver	LobePro Silver

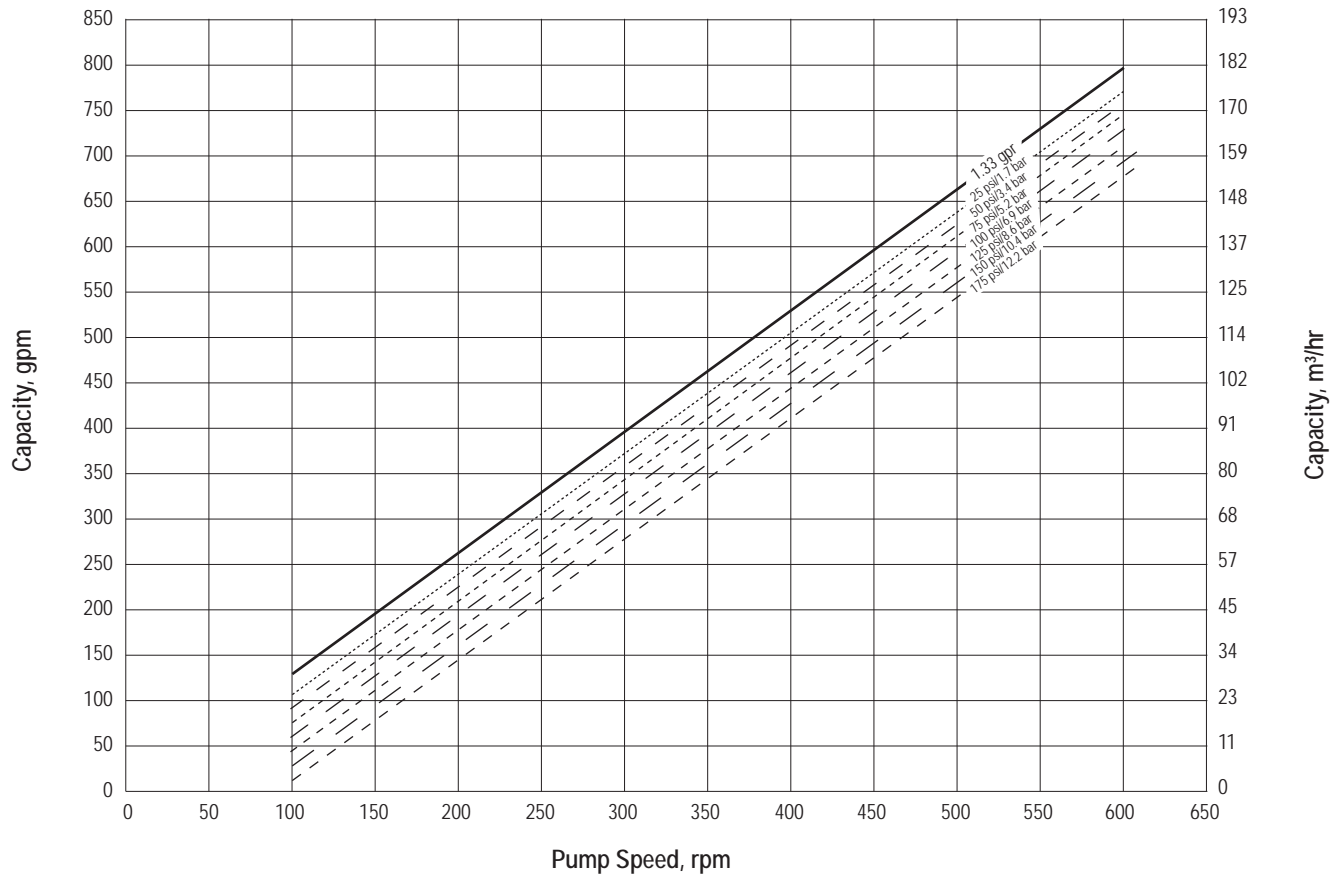
NOTE: Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. \*Consult Factory for application temperature above 80°C (175°F).



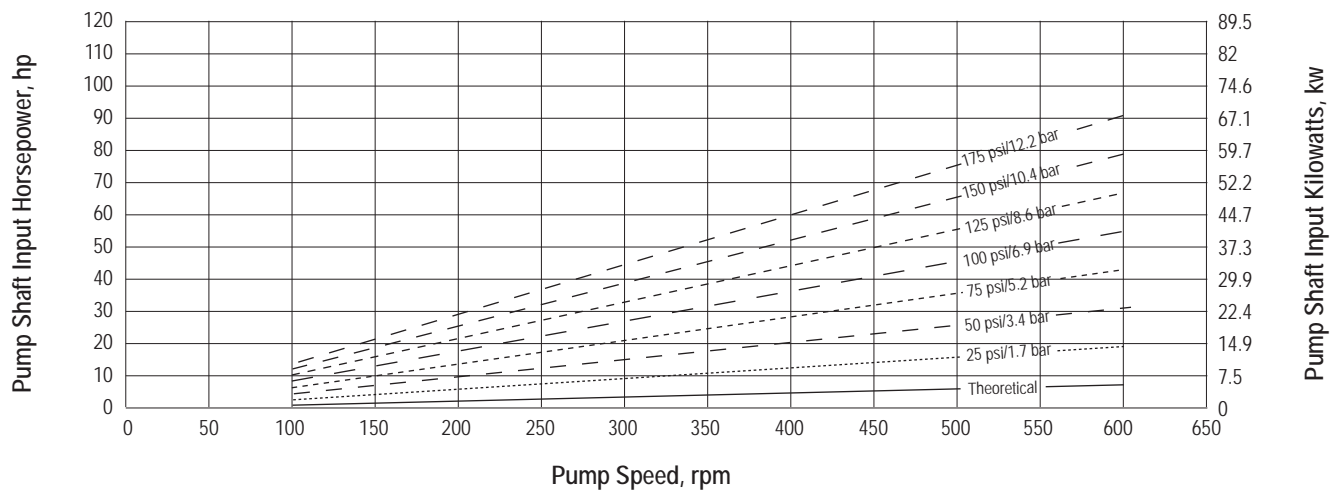
## L133e CURVES

**Performance Curve - NBR Lobes\***

Based on 70°F (21°C) fresh water (1 cp) at Sea Level.  
Output will increase as viscosity of the fluid increases from 1.



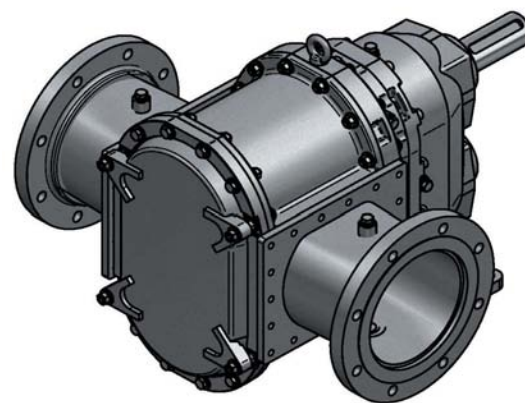
\*Note: Output from lobes coated with elastomers other than NBR may be lower. Contact Engineering for further information.

**Horsepower Requirements**

# LOBEPRO

## ROTARY PUMPS

# L266



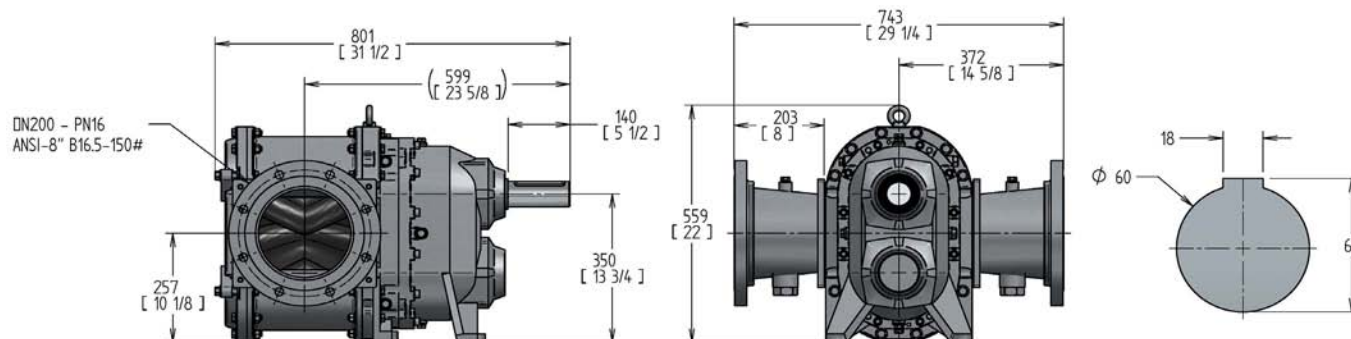
## Positive Displacement Rotary Lobe Pumps

SPECIFICATIONS	US	Metric
Rated Capacity:	0-1,330 gpm	0-302 m <sup>3</sup> /h
Displacement (per 100 revolutions):	266 gal (US)	1,003 L
Working Pressure:	75 psi	5.2 bar
Max. Pressure:	100 psi	6.9 bar
Starting Torque:	3,857 in lbf	436 N m
Rated Speed:	0-500 RPM	0-500 RPM
Shaft Diameter:	2.4"	60 mm
Flange Connection Class:	ANSI 16.5-150#	DN - PN 16
Flange Connection Size:	ANSI 8"	DN 200
Weight:	748 lbs	340 kg
Solids Handling		
Spherical Compressible	3"	76 mm
Spherical Hard*	1/8"	3 mm

\* Larger hard solids will pass through but may cause damage.

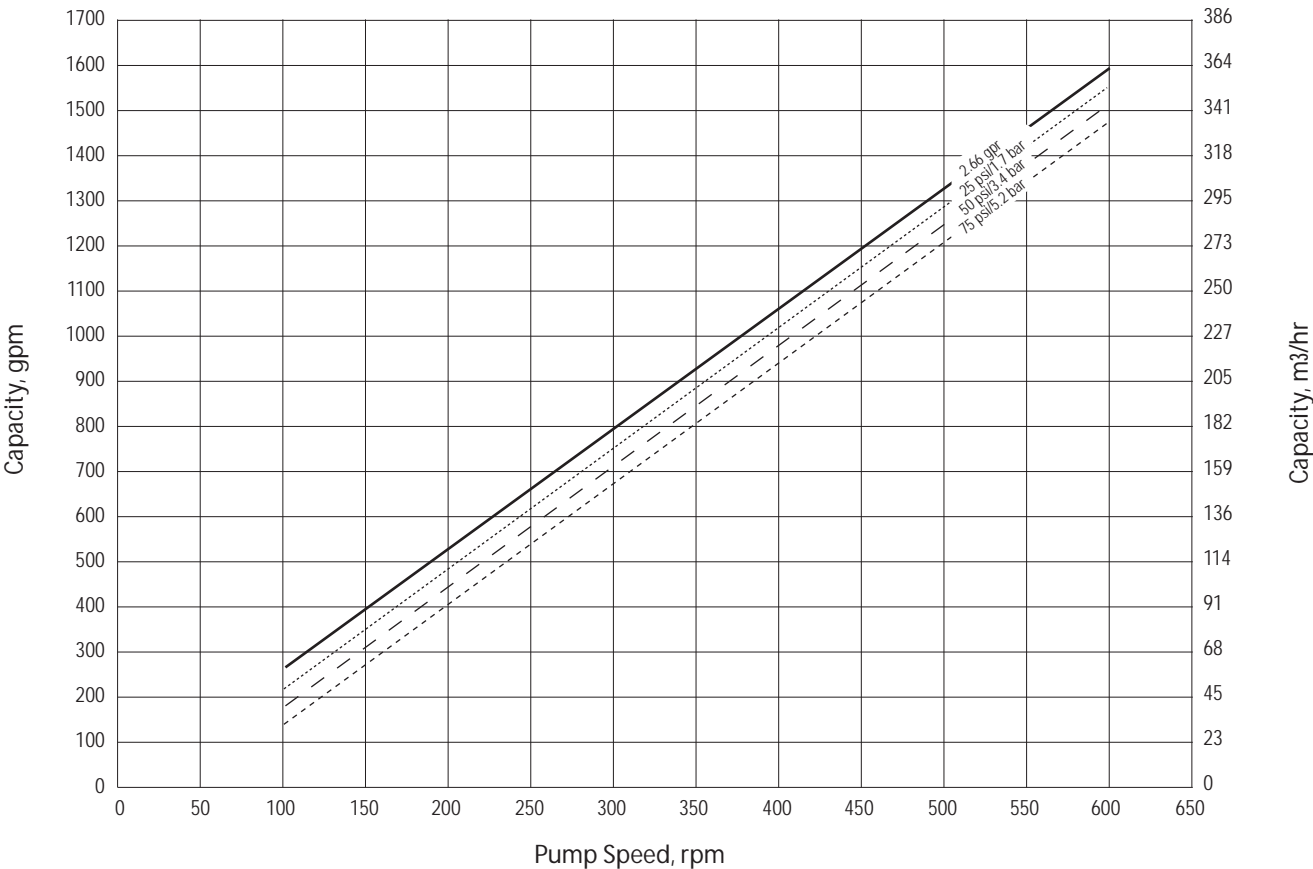
MODEL >	SL266	CL266	DL266
Service	Sludge, Mud and Slurries*	Chemical/Corrosive	Oil, Gas & Abrasives
<b>WETTED PARTS</b>			
<b>Rotary Lobes</b>			
Elastomer	NBR Opt. HNBR, FKM, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.
Lobe Profile	Helix	Helix	Helix
Number of lobe wings	4	4	4
Core	Carbon Steel	Carbon Steel	Carbon Steel
<b>Sealing Elastomers</b>			
O-rings	FKM	FKM or Engineer Recommendation	FKM or Engineer Recommendation
Lip seals	FKM or Engineer Recommendation	FKM or Engineer Recommendation	FKM or Engineer Recommendation
<b>Mechanical Seals</b>			
Mechanical Seal	Duronit	Silicon Carbide	Silicon Carbide
	Opt. Tungsten Carbide, Silicon Carbide, or Eng. Rec.	Opt. Tungsten Carbide or Engineer Rec.	Opt. Tungsten Carbide or Engineer Rec.
Seal Holders	Carbon Steel with Corrosion resistant coating	Stainless Steel Type 316	Duplex Stainless Steel
Wear Plates	AR500 Steel (Brinell 500)	Stainless Steel Type 316	Duplex Stainless Steel
Housing Segments	ASTM A48 Grey Iron rust primed	Duplex Stainless Steel	Duplex Stainless Steel
Flange Ring	ASTM A36 Carbon Steel	Stainless Steel Type 316L	Duplex Stainless Steel
Bolts	Carbon Steel ISO 898-I	Stainless Steel A2-A4	Duplex Stainless Steel
Pressure Disc	Stainless Steel Type 316L	Stainless Steel Type 316L	Duplex Stainless Steel
<b>LIMITED EXPOSURE PARTS</b>			
Quench /Seal Cooling Chamber	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron with PTFE / Ceramic Teflon etched on face	ASTM A48 Grey Iron with PTFE / Ceramic Teflon etched on face
Pump Cover	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron Opt. 316 Stainless Steel	ASTM A48 Grey Iron Opt. Duplex Stainless Steel
<b>NON-WETTED PARTS</b>			
Gears	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel
Gear Housing	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron	ASTM A48 Grey Iron
Shaft	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel
<b>PAINTING REQUIREMENTS</b>			
Standard Painting	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint
	LobePro Blue	LobePro Silver	LobePro Silver

NOTE: Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. \*Consult Factory for application temperature above 80°C (175°F).

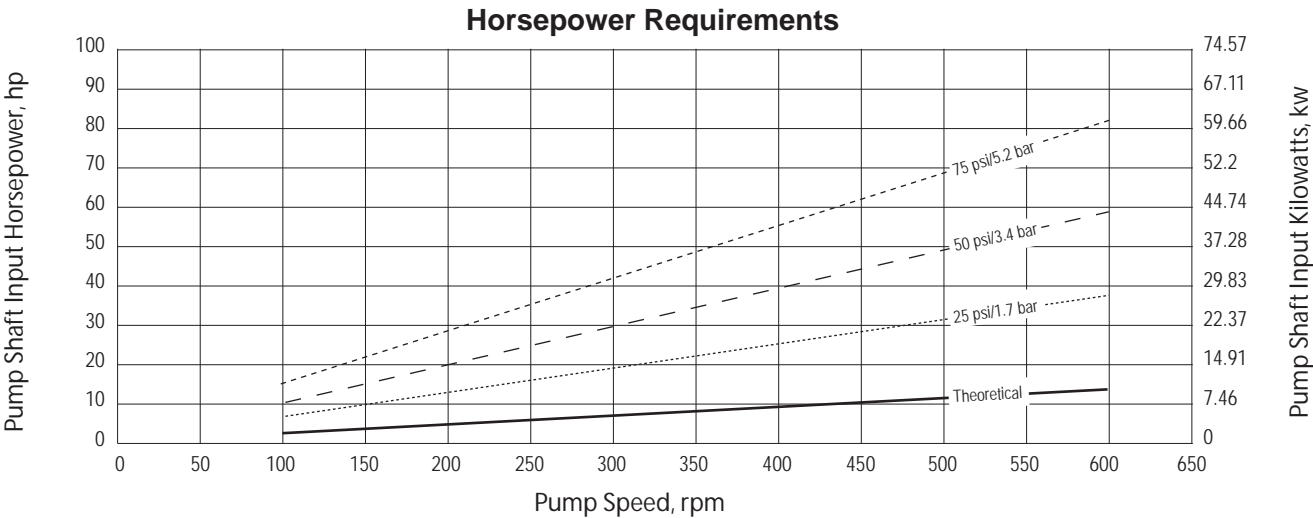


L266 CURVES

**Performance Curve - NBR Lobes\***  
Based on 70°F (21°C) fresh water (1 cp) at Sea Level.  
Output will increase as viscosity of the fluid increases from 1.



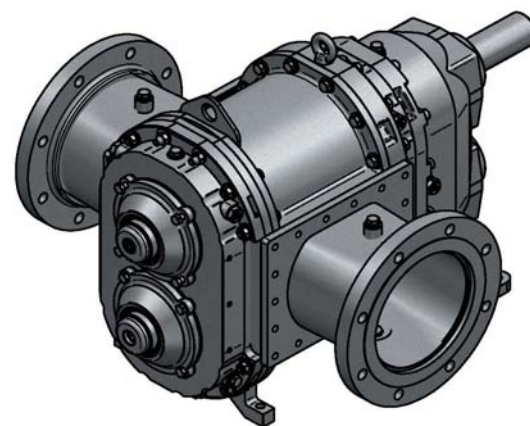
\*Note: Output from lobes coated with elastomers other than NBR maybe lower. Contact Engineering for further information.



# LOBEPRO

## ROTARY PUMPS

### L266d



#### SPECIFICATIONS US Metric

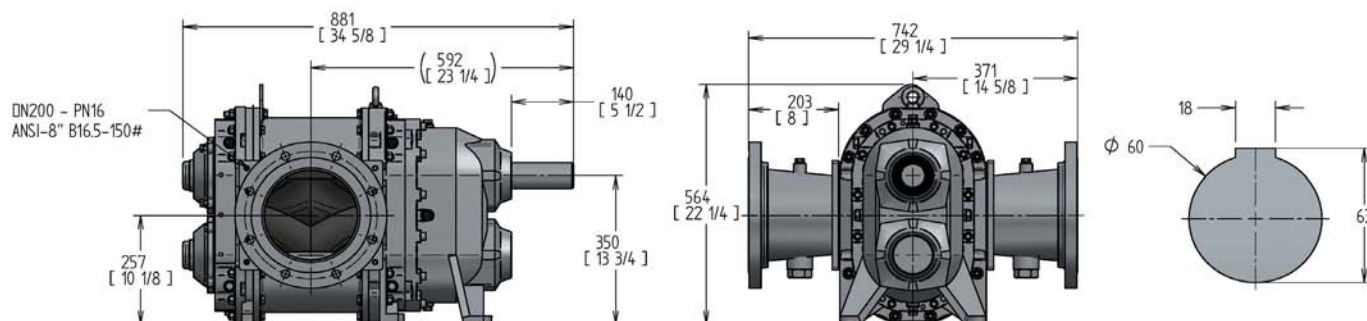
Rated Capacity:	0-1,330 gpm	0-302 m³/h
Displacement (per 100 revolutions):	266 gal (US)	1,003 L
Working Pressure:	125 psi	8.6 bar
Max. Pressure:	150 psi	10.3 bar
Starting Torque:	3,857 in lbf	436 N m
Rated Speed:	0-500 RPM	0-500 RPM
Shaft Diameter:	2.4"	60 mm
Flange Connection Class:	ANSI 16.5-150#	DN - PN 10
Flange Connection Size:	ANSI 8"	DN 200
Weight:	815 lbs	370 kg
Solids Handling		
Spherical Compressible	3"	76 mm
Spherical Hard*	1/8"	3 mm

\* Larger hard solids will pass through but may cause damage.

## Positive Displacement Rotary Lobe Pumps

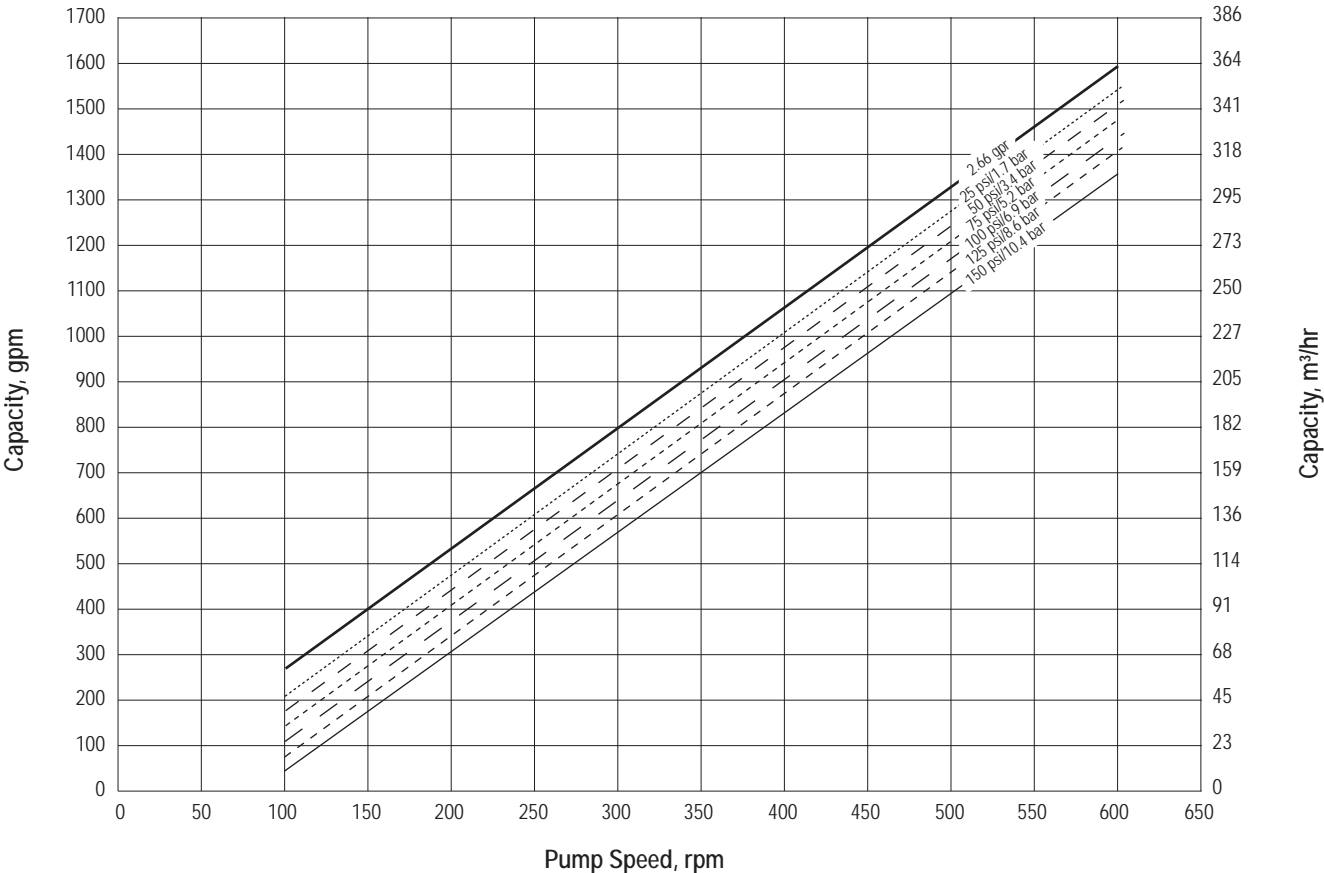
MODEL >	SL266d	CL266d	DL266d
Service	Sludge, Mud and Slurries*	Chemical/Corrosive	Oil, Gas & Abrasives
<b>WETTED PARTS</b>			
<b>Rotary Lobes</b>			
Elastomer	NBR Opt. HNBR, FKM, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.
Lobe Profile	Helix	Helix	Helix
Number of lobe wings	4	4	4
Core	Carbon Steel	Carbon Steel	Carbon Steel
<b>Sealing Elastomers</b>			
O-rings	FKM	FKM or Engineer Recommendation	FKM or Engineer Recommendation
Lip seals	FKM or Engineer Recommendation	FKM or Engineer Recommendation	FKM or Engineer Recommendation
<b>Mechanical Seals</b>			
Mechanical Seal	Duronit Opt. Tungsten Carbide, Silicon Carbide, or Eng. Rec.	Silicon Carbide Opt. Tungsten Carbide or Engineer Rec.	Silicon Carbide Opt. Tungsten Carbide or Engineer Rec.
Seal Holders	Carbon Steel with Corrosion resistant coating	Stainless Steel Type 316	Duplex Stainless Steel
Wear Plates	AR500 Steel (Brinell 500)	Stainless Steel Type 316	Duplex Stainless Steel
Housing Segments	ASTM A48 Grey Iron rust primed	Duplex Stainless Steel	Duplex Stainless Steel
Flange Ring	ASTM A36 Carbon Steel	Stainless Steel Type 316L	Duplex Stainless Steel
Bolts	Carbon Steel ISO 898-I	Stainless Steel A2-A4	Duplex Stainless Steel
Pressure Disc	Stainless Steel Type 316L	Stainless Steel Type 316L	Duplex Stainless Steel
<b>LIMITED EXPOSURE PARTS</b>			
Quench /Seal Cooling Chamber	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron with PTFE / Ceramic Teflon etched on face	ASTM A48 Grey Iron with PTFE / Ceramic Teflon etched on face
Pump Cover - Door/Ld Assembly	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron Opt. Engineer Rec.	ASTM A48 Grey Iron Opt. Engineer Rec.
<b>NON-WETTED PARTS</b>			
Gears	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel
Gear Housing	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron	ASTM A48 Grey Iron
Shaft	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel
<b>PAINTING REQUIREMENTS</b>			
Standard Painting	SSPC/SP6 Sandblast Paint LobePro Blue	SSPC/SP6 Sandblast Paint LobePro Silver	SSPC/SP6 Sandblast Paint LobePro Silver

NOTE: Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. \*Consult Factory for application temperature above 80°C (175°F).



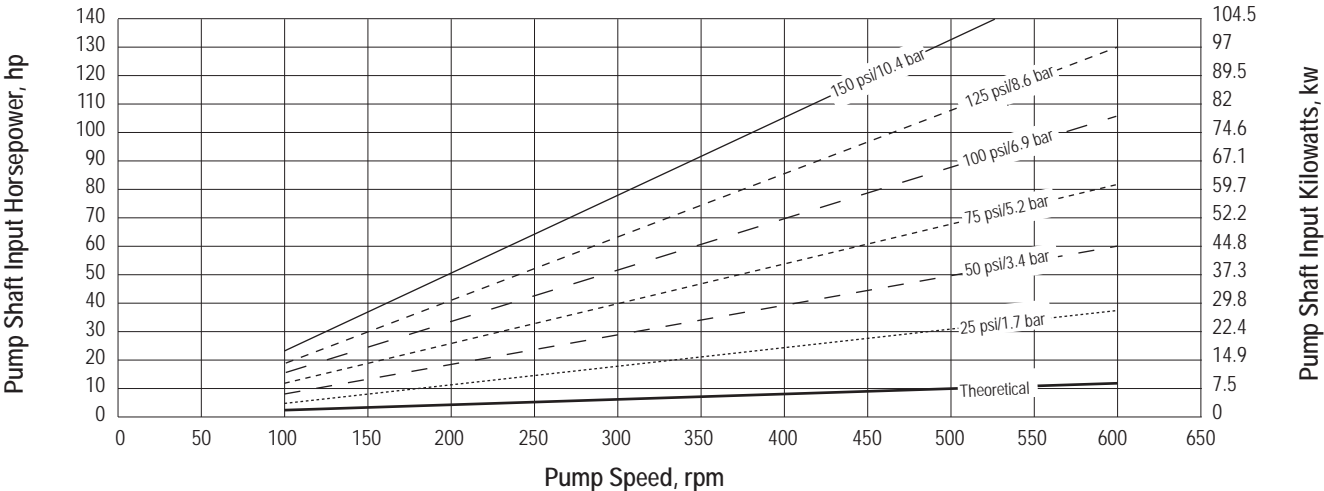
L266d CURVES

**Performance Curve - NBR Lobes\***  
Based on 70°F (21°C) fresh water (1 cp) at Sea Level.  
Output will increase as viscosity of the fluid increases from 1.



\*Note: Output from lobes coated with elastomers other than NBR maybe lower. Contact Engineering for further information.

**Horsepower Requirements**

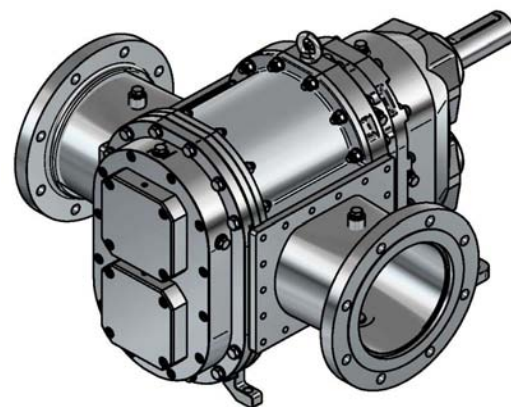




# LOBEPRO

## ROTARY PUMPS

### L266e



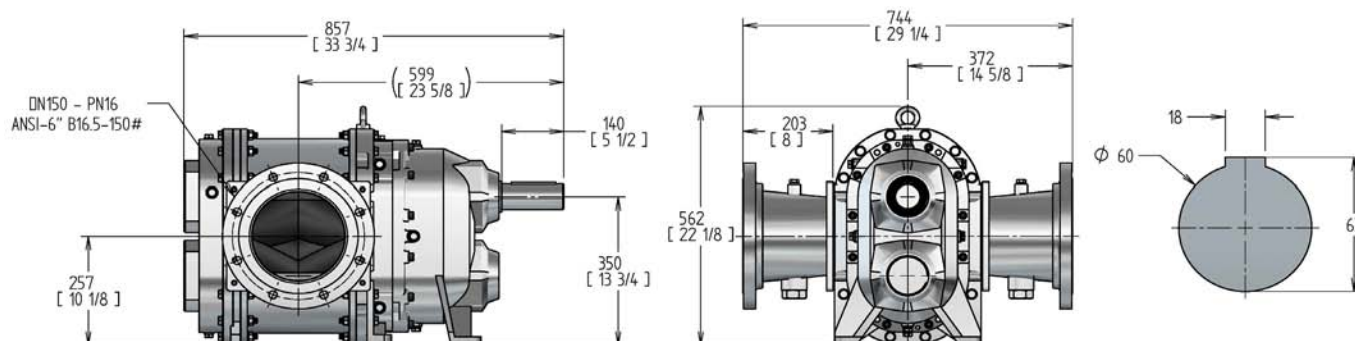
## Positive Displacement Rotary Lobe Pumps

SPECIFICATIONS	US	Metric
Rated Capacity:	0-1,330 gpm	0-302 m³/h
Displacement (per 100 revolutions):	266 gal (US)	1,007 L
Working Pressure:	150 psi	10.3 bar
Max. Pressure:	175 psi	12 bar
Starting Torque:	3,857 in lbf	436 N m
Rated Speed:	0-500 RPM	0-500 RPM
Shaft Diameter:	2.4"	60 mm
Flange Connection Class:	ANSI 16.5-150#	DN - PN 10
Flange Connection Size:	ANSI 8"	DN 200
Weight:	815 lbs	370 kg
Solids Handling		
Spherical Compressible	3"	76 mm
Spherical Hard*	1/8"	3 mm

\* Larger hard solids will pass through but may cause damage.

MODEL >	SL266e	CL266e	DL266e
Service	Sludge, Mud and Slurries*	Chemical/Corrosive	Oil, Gas & Abrasives
<b>WETTED PARTS</b>			
<b>Rotary Lobes</b>			
Elastomer	NBR Opt. HNBR, FKM, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.
Lobe Profile	Helix	Helix	Helix
Number of lobe wings	4	4	4
Core	Carbon Steel	Carbon Steel	Carbon Steel
<b>Sealing Elastomers</b>			
O-rings	FKM	FKM or Engineer Recommendation	FKM or Engineer Recommendation
Lip seals	FKM or Engineer Recommendation	FKM or Engineer Recommendation	FKM or Engineer Recommendation
<b>Mechanical Seals</b>			
Mechanical Seal	Duronit	Silicon Carbide	Silicon Carbide
	Opt. Tungsten Carbide, Silicon Carbide, or Eng. Rec.	Opt. Tungsten Carbide or Engineer Rec.	Opt. Tungsten Carbide or Engineer Rec.
Seal Holders	Carbon Steel with Corrosion resistant coating	Stainless Steel Type 316	Duplex Stainless Steel
Wear Plates	AR500 Steel (Brinell 500)	Stainless Steel Type 316	Duplex Stainless Steel
Housing Segments	ASTM A48 Grey Iron rust primed	Duplex Stainless Steel	Duplex Stainless Steel
Flange Ring	ASTM A36 Carbon Steel	Stainless Steel Type 316L	Duplex Stainless Steel
Bolts	Carbon Steel ISO 898-I	Stainless Steel A2-A4	Duplex Stainless Steel
Pressure Disc	Stainless Steel Type 316L	Stainless Steel Type 316L	Duplex Stainless Steel
<b>LIMITED EXPOSURE PARTS</b>			
Quench /Seal Cooling Chamber	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron	ASTM A48 Grey Iron
		with PTFE / Ceramic Teflon etched on face	with PTFE / Ceramic Teflon etched on face
Pump Cover - DoorLe Assembly	Carbon Steel	Carbon Steel Opt. Engineer Rec.	Carbon Steel Opt. Engineer Rec.
<b>NON-WETTED PARTS</b>			
Gears	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel
Gear Housing	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron	ASTM A48 Grey Iron
Shaft	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel
<b>PAINTING REQUIREMENTS</b>			
Standard Painting	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint
	LobePro Blue	LobePro Silver	LobePro Silver

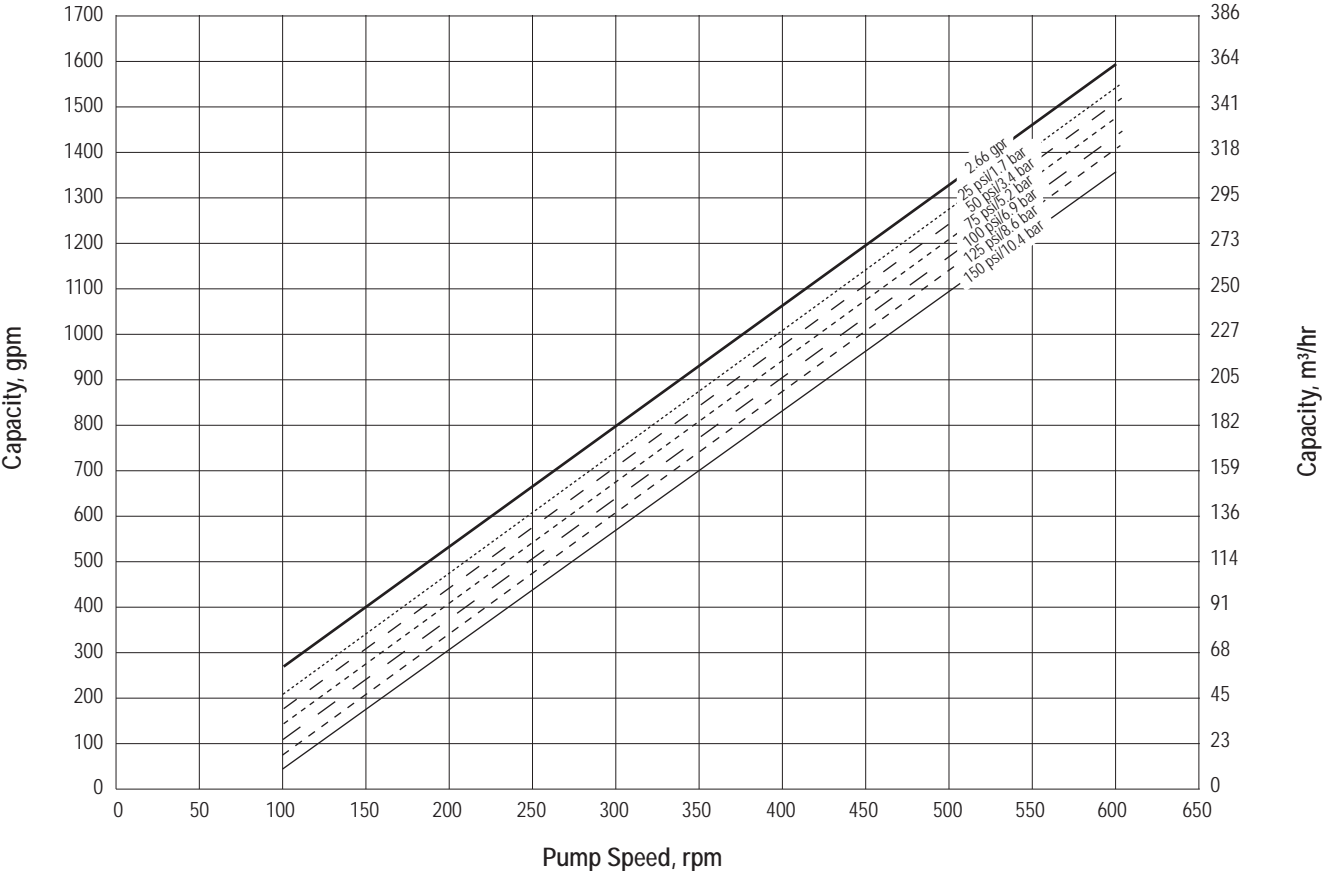
NOTE: Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. \*Consult Factory for application temperature above 80°C (175°F).





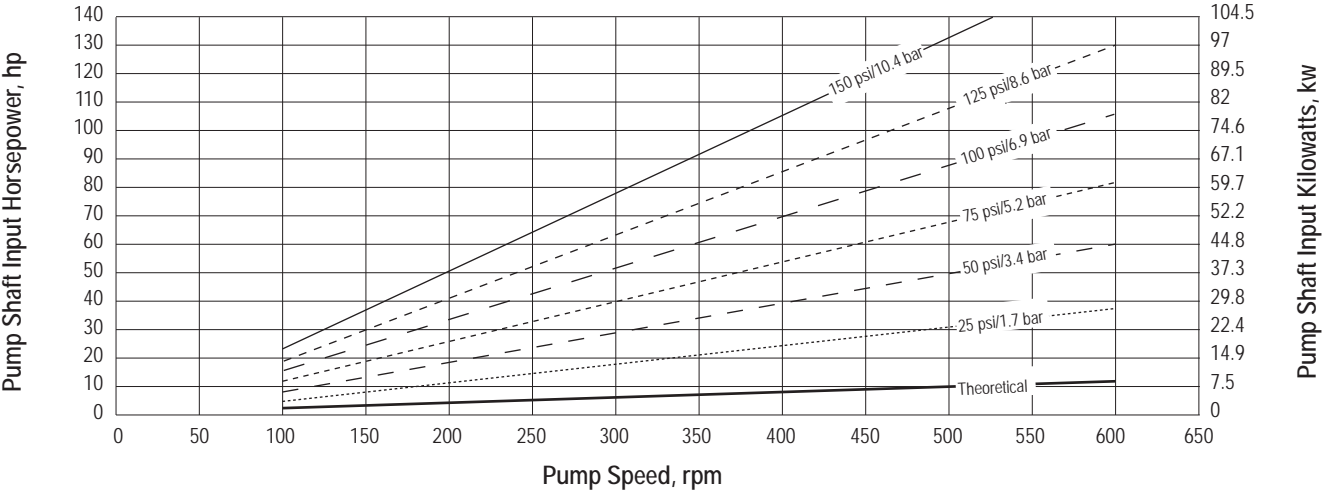
L266e CURVES

**Performance Curve - NBR Lobes\***  
Based on 70°F (21°C) fresh water (1 cp) at Sea Level.  
Output will increase as viscosity of the fluid increases from 1.



\*Note: Output from lobes coated with elastomers other than NBR maybe lower. Contact Engineering for further information.

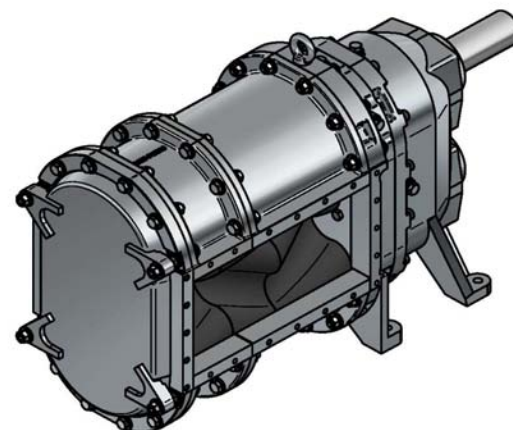
**Horsepower Requirements**



# LOBEPRO

## ROTARY PUMPS

### L399



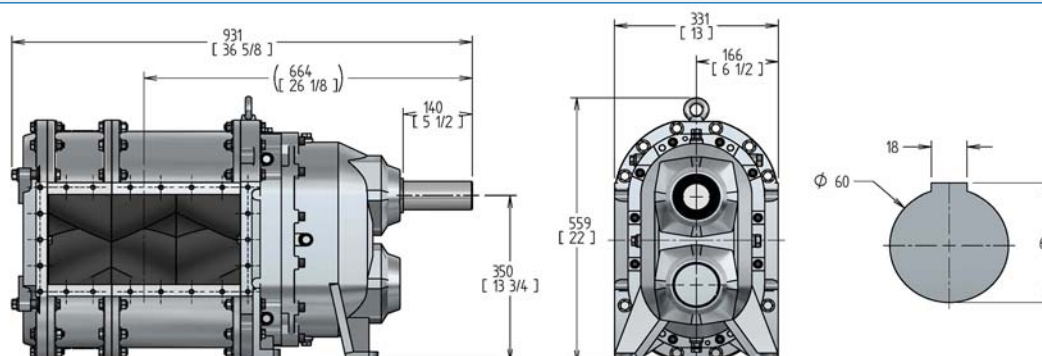
## Positive Displacement Rotary Lobe Pumps

SPECIFICATIONS	US	Metric
Rated Capacity:	0-1,995 gpm	0-453 m <sup>3</sup> /h
Displacement (per 100 revolutions):	399 gal (US)	1,504 L
Working Pressure:	40 psi	2.8 bar
Max. Pressure:	50 psi	3.5 bar
Starting Torque:	3,857 in lbf	436 N m
Rated Speed:	0-500 RPM	0-500 RPM
Shaft Diameter:	2.4"	60 mm
Flange Connection Class:	ANSI 16.5-150#	DN - PN 16
Flange Connection Size:	ANSI 10"	DN 200
Weight:	770 lbs	350 kg
Solids Handling		
Spherical Compressible	3"	76 mm
Spherical Hard*	1/8"	3 mm

\* Larger hard solids will pass through but may cause damage.

MODEL >	SL399	CL399	DL399
Service	Sludge, Mud and Slurries*	Chemical/Corrosive	Oil, Gas & Abrasives
<b>WETTED PARTS</b>			
<b>Rotary Lobes</b>			
Elastomer	NBR Opt. HNBR, FKM, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.
Lobe Profile	Helix	Helix	Helix
Number of lobe wings	4	4	4
Core	Carbon Steel	Carbon Steel	Carbon Steel
<b>Sealing Elastomers</b>			
O-rings	FKM	FKM or Engineer Recommendation	FKM or Engineer Recommendation
Lip seals	FKM or Engineer Recommendation	FKM or Engineer Recommendation	FKM or Engineer Recommendation
<b>Mechanical Seals</b>			
Mechanical Seal	Duronit	Silicon Carbide	Silicon Carbide
	Opt. Tungsten Carbide, Silicon Carbide, or Eng. Rec.	Opt. Tungsten Carbide or Engineer Rec.	Opt. Tungsten Carbide or Engineer Rec.
Seal Holders	Carbon Steel with Corrosion resistant coating	Stainless Steel Type 316	Duplex Stainless Steel
Wear Plates	AR500 Steel (Brinell 500)	Stainless Steel Type 316	Duplex Stainless Steel
Housing Segments	ASTM A48 Grey Iron rust primed	Duplex Stainless Steel	Duplex Stainless Steel
Flange Ring	ASTM A36 Carbon Steel	Stainless Steel Type 316L	Duplex Stainless Steel
Bolts	Carbon Steel ISO 898-I	Stainless Steel A2-A4	Duplex Stainless Steel
Pressure Disc	Stainless Steel Type 316L	Stainless Steel Type 316L	Duplex Stainless Steel
<b>LIMITED EXPOSURE PARTS</b>			
Quench /Seal Cooling Chamber	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron with PTFE / Ceramic Teflon etched on face	ASTM A48 Grey Iron with PTFE / Ceramic Teflon etched on face
Pump Cover	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron Opt. 316 Stainless Steel	ASTM A48 Grey Iron Opt. Duplex Stainless Steel
<b>NON-WETTED PARTS</b>			
Gears	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel
Gear Housing	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron	ASTM A48 Grey Iron
Shaft	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel
<b>PAINTING REQUIREMENTS</b>			
Standard Painting	SSPC/SP6 Sandblast Paint LobePro Blue	SSPC/SP6 Sandblast Paint LobePro Silver	SSPC/SP6 Sandblast Paint LobePro Silver

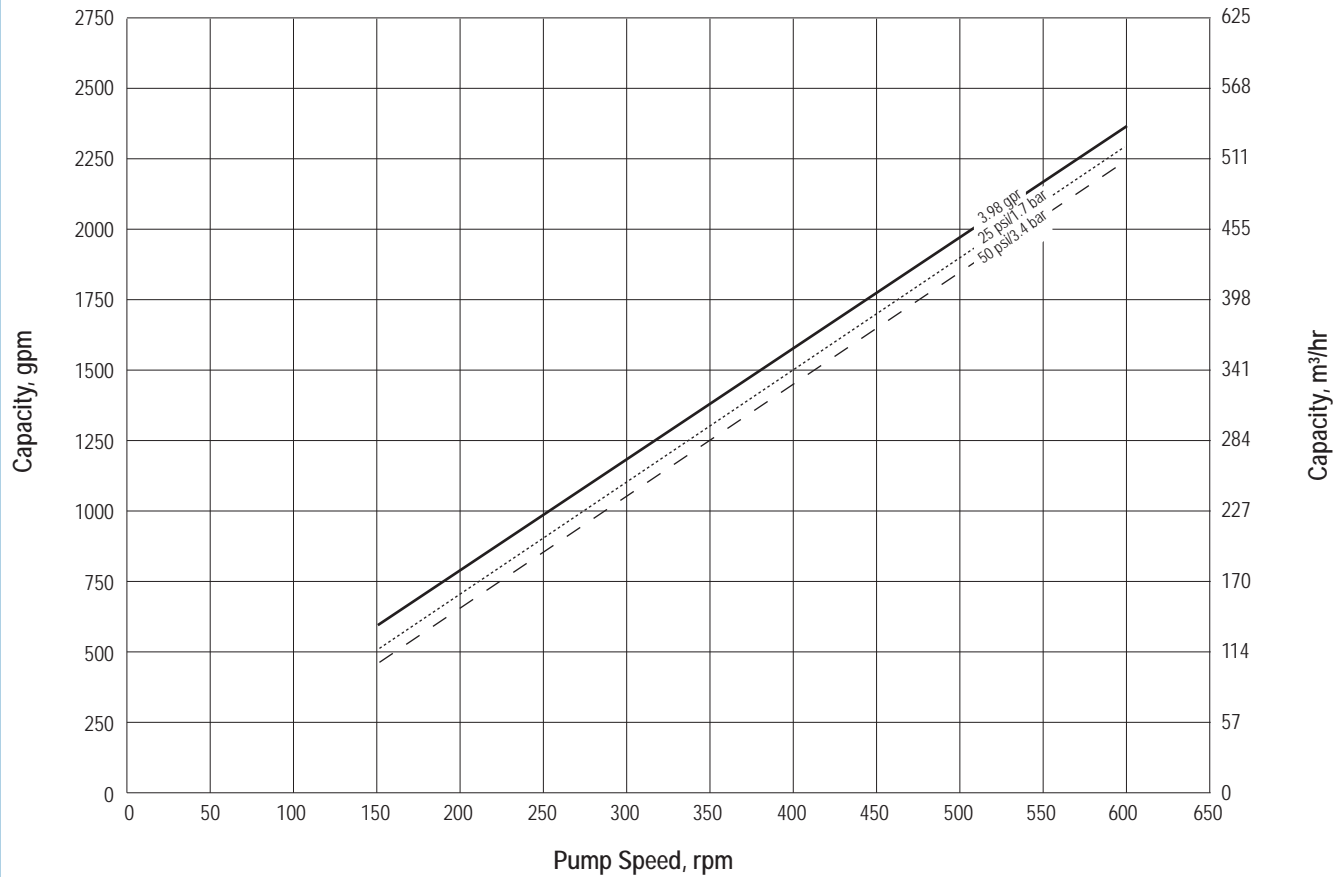
NOTE: Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. \*Consult Factory for application temperature above 80°C (175°F).



## L399 CURVES

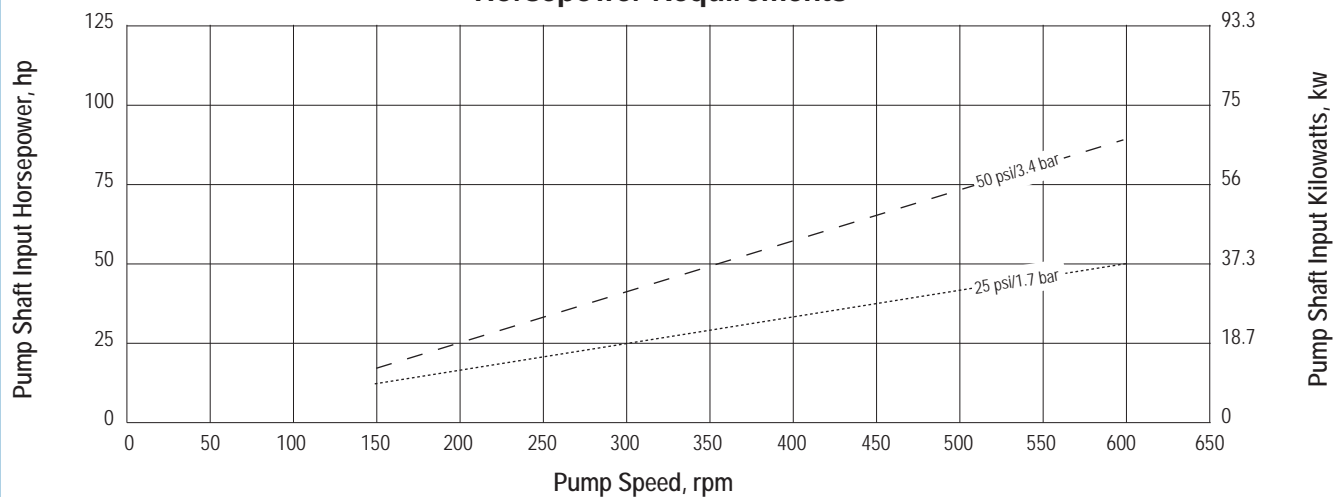
### Performance Curve - NBR Lobes\*

Based on 70°F (21°C) fresh water (1 cp) at Sea Level.  
Output will increase as viscosity of the fluid increases from 1.



\*Note: Output from lobes coated with elastomers other than NBR maybe lower. Contact Engineering for further information.

### Horsepower Requirements

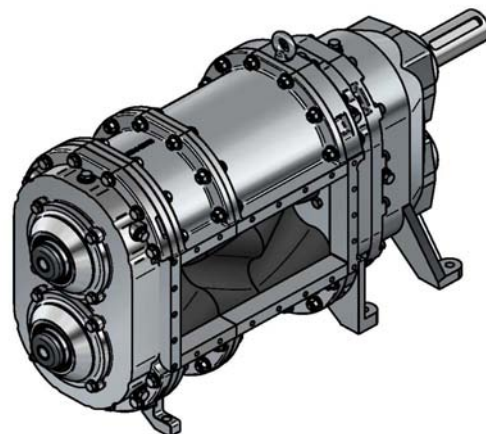




# LOBEPRO

## ROTARY PUMPS

# L399d



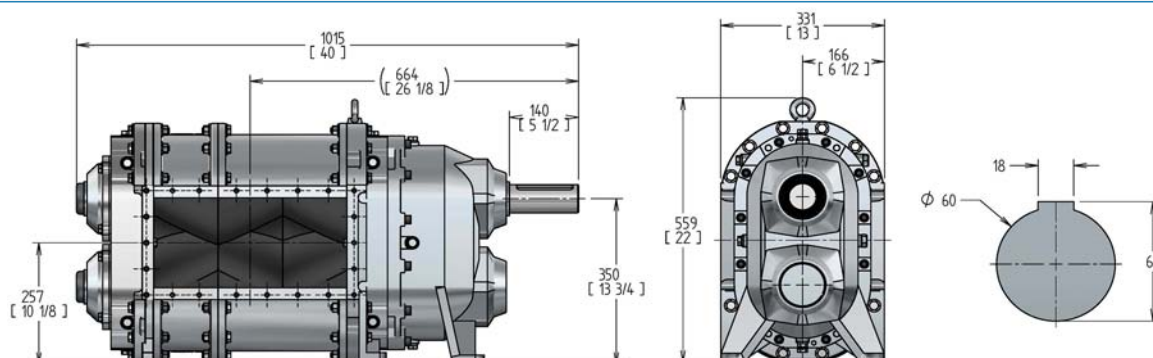
## Positive Displacement Rotary Lobe Pumps

SPECIFICATIONS	US	Metric
Rated Capacity:	0-1,995 gpm	0-453 m <sup>3</sup> /h
Displacement (per 100 revolutions):	399 gal (US)	1,504 L
Working Pressure:	85 psi	5.9 bar
Max. Pressure:	105 psi	7.2 bar
Starting Torque:	3,857 in lbf	436 N m
Rated Speed:	0-500 RPM	0-500 RPM
Shaft Diameter:	2.4"	60 mm
Flange Connection Class:	ANSI 16.5-150#	DN - PN 16
Flange Connection Size:	ANSI 10"	DN 200
Weight:	845 lbs	383 kg
Solids Handling		
Spherical Compressible	3"	76 mm
Spherical Hard*	1/8"	3 mm

\* Larger hard solids will pass through but may cause damage.

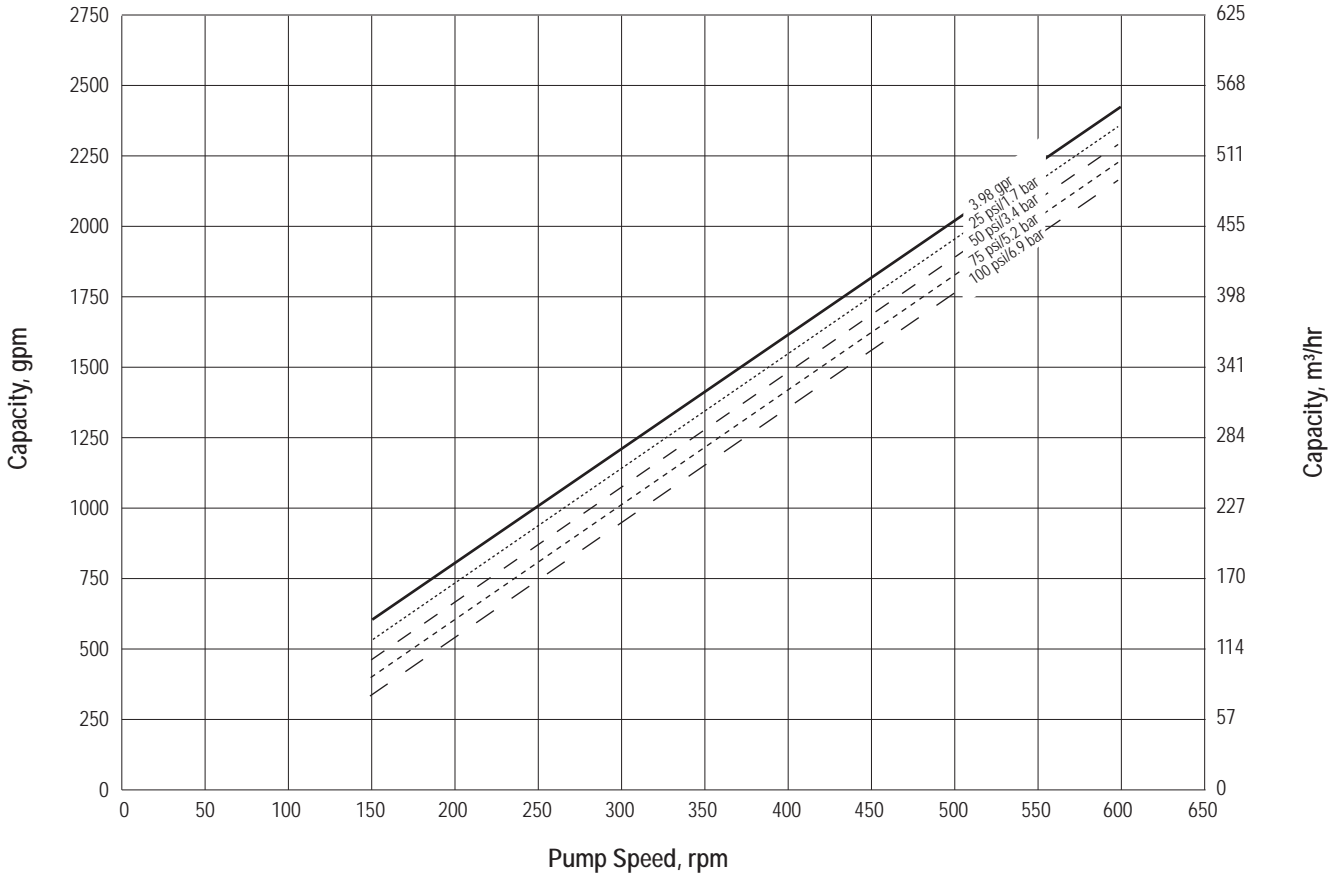
MODEL >	SL399d	CL399d	DL399d
Service	Sludge, Mud and Slurries*	Chemical/Corrosive	Oil, Gas & Abrasives
<b>WETTED PARTS</b>			
<u>Rotary Lobes</u>			
Elastomer	NBR Opt. HNBR, FKM, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.
Lobe Profile	Helix	Helix	Helix
Number of lobe wings	4	4	4
Core	Carbon Steel	Carbon Steel	Carbon Steel
<u>Sealing Elastomers</u>			
O-rings	FKM	FKM or Engineer Recommendation	FKM or Engineer Recommendation
Lip seals	FKM or Engineer Recommendation	FKM or Engineer Recommendation	FKM or Engineer Recommendation
<u>Mechanical Seals</u>			
Mechanical Seal	Duronit	Silicon Carbide	Silicon Carbide
Seal Holders	Opt. Tungsten Carbide, Silicon Carbide, or Eng. Rec. Carbon Steel with Corrosion resistant coating	Opt. Tungsten Carbide or Engineer Rec. Stainless Steel Type 316	Opt. Tungsten Carbide or Engineer Rec. Duplex Stainless Steel
Wear Plates	AR500 Steel (Brinell 500)	Stainless Steel Type 316	Duplex Stainless Steel
Housing Segments	ASTM A48 Grey Iron rust primed	Duplex Stainless Steel	Duplex Stainless Steel
Flange Ring	ASTM A36 Carbon Steel	Stainless Steel Type 316L	Duplex Stainless Steel
Bolts	Carbon Steel ISO 898-I	Stainless Steel A2-A4	Duplex Stainless Steel
Pressure Disc	Stainless Steel Type 316L	Stainless Steel Type 316L	Duplex Stainless Steel
<b>LIMITED EXPOSURE PARTS</b>			
Quench /Seal Cooling Chamber	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron with PTFE / Ceramic Teflon etched on face	ASTM A48 Grey Iron with PTFE / Ceramic Teflon etched on face
Pump Cover - Door/Ld Assembly	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron Opt. Engineer Rec.	ASTM A48 Grey Iron Opt. Engineer Rec.
<b>NON-WETTED PARTS</b>			
Gears	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel
Gear Housing	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron	ASTM A48 Grey Iron
Shaft	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel
<b>PAINTING REQUIREMENTS</b>			
Standard Painting	SSPC/SP6 Sandblast Paint LobePro Blue	SSPC/SP6 Sandblast Paint LobePro Silver	SSPC/SP6 Sandblast Paint LobePro Silver

NOTE: Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. \*Consult Factory for application temperature above 80°C (175°F).



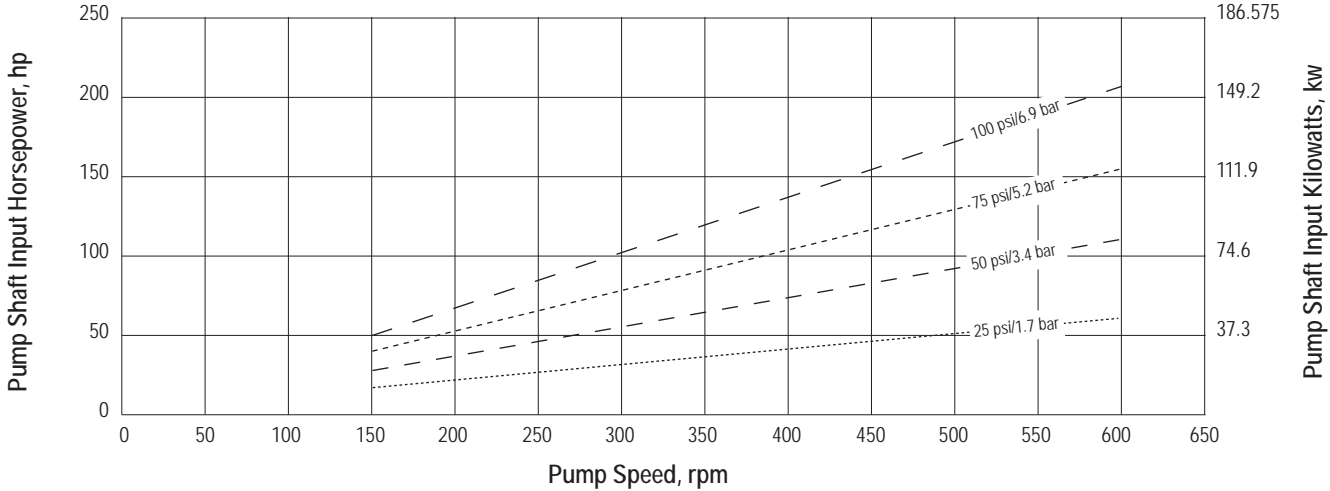
L399d CURVES

**Performance Curve - NBR Lobes\***  
Based on 70°F (21°C) fresh water (1 cp) at Sea Level.  
Output will increase as viscosity of the fluid increases from 1.



\*Note: Output from lobes coated with elastomers other than NBR maybe lower. Contact Engineering for further information.

**Horsepower Requirements**

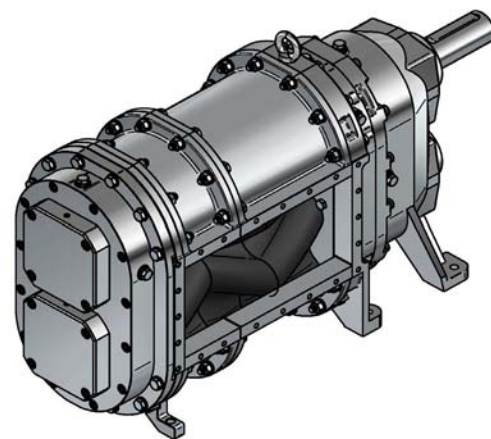




# LOBEPRO

## ROTARY PUMPS

# L399e



## Positive Displacement Rotary Lobe Pumps

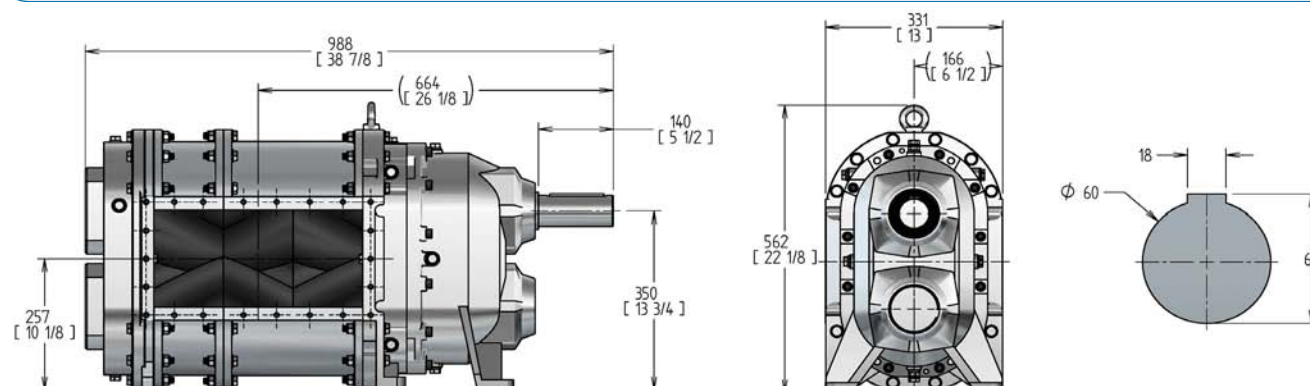
### SPECIFICATIONS US Metric

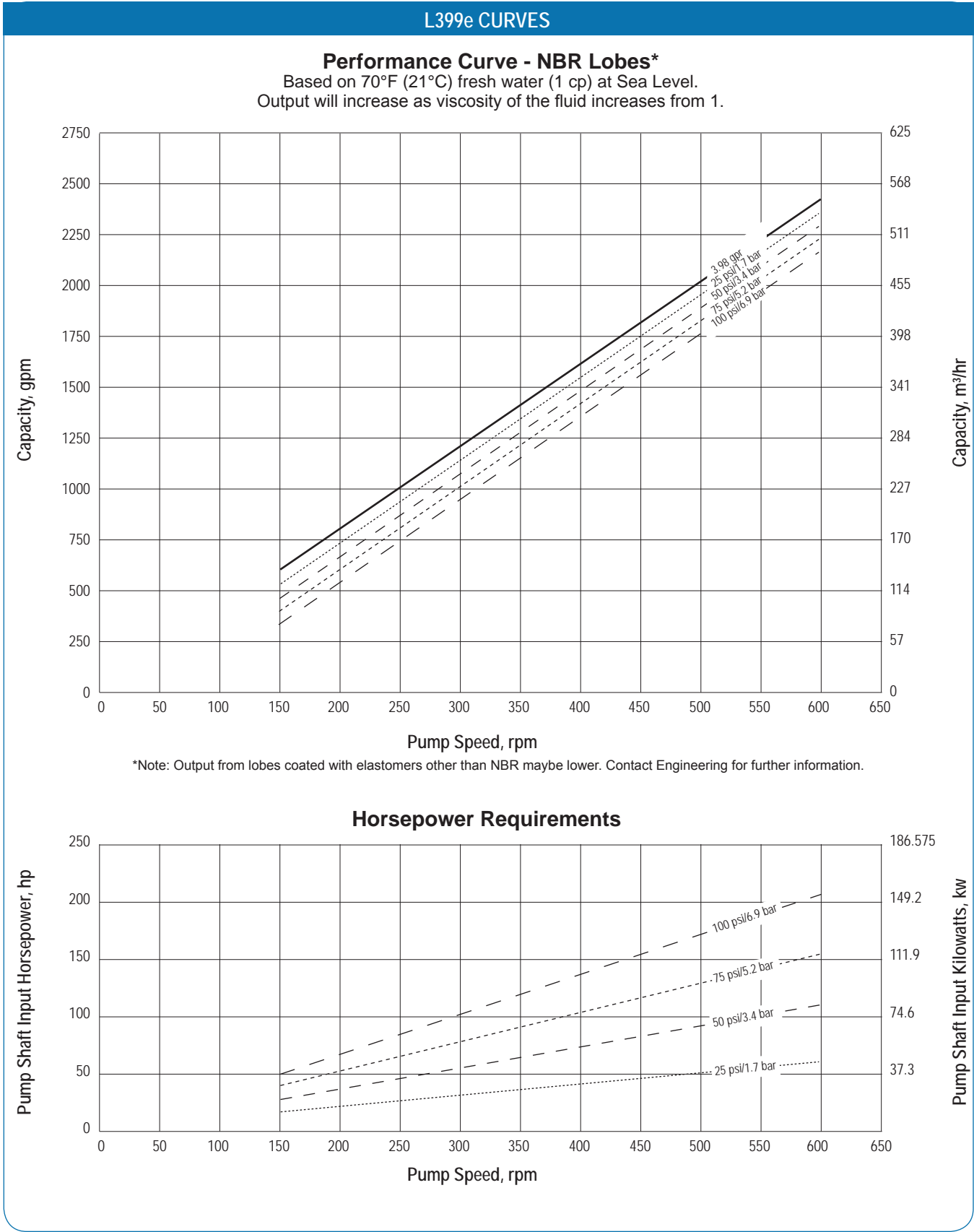
Rated Capacity:	0-1,995 gpm	0-453 m <sup>3</sup> /h
Displacement (per 100 revolutions):	399 gal (US)	1,504 L
Working Pressure:	85 psi	5.9 bar
Max. Pressure:	105 psi	7.2 bar
Starting Torque:	3,857 in lbf	436 N m
Rated Speed:	0-500 RPM	0-500 RPM
Shaft Diameter:	2.4"	60 mm
Flange Connection Class:	ANSI 16.5-150#	DN - PN 16
Flange Connection Size:	ANSI 10"	DN 200
Weight:	870 lbs	395 kg
Solids Handling		
Spherical Compressible	3"	76 mm
Spherical Hard*	1/8"	3 mm

\* Larger hard solids will pass through but may cause damage.

MODEL >	SL399e	CL399e	DL399e
Service	Sludge, Mud and Slurries*	Chemical/Corrosive	Oil, Gas & Abrasives
<b>WETTED PARTS</b>			
<b>Rotary Lobes</b>			
Elastomer	NBR Opt. HNBR, FKM, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.
Lobe Profile	Helix	Helix	Helix
Number of lobe wings	4	4	4
Core	Carbon Steel	Carbon Steel	Carbon Steel
<b>Sealing Elastomers</b>			
O-rings	FKM	FKM or Engineer Recommendation	FKM or Engineer Recommendation
Lip seals	FKM or Engineer Recommendation	FKM or Engineer Recommendation	FKM or Engineer Recommendation
<b>Mechanical Seals</b>			
Mechanical Seal	Duronit	Silicon Carbide	Silicon Carbide
Seal Holders	Opt. Tungsten Carbide, Silicon Carbide, or Eng. Rec.	Opt. Tungsten Carbide or Engineer Rec.	Opt. Tungsten Carbide or Engineer Rec.
Wear Plates	Carbon Steel with Corrosion resistant coating	Stainless Steel Type 316	Duplex Stainless Steel
Housing Segments	AR500 Steel (Brinell 500)	Stainless Steel Type 316	Duplex Stainless Steel
Flange Ring	ASTM A48 Grey Iron rust primed	Duplex Stainless Steel	Duplex Stainless Steel
Bolts	ASTM A36 Carbon Steel	Stainless Steel Type 316L	Duplex Stainless Steel
Pressure Disc	Carbon Steel ISO 898-I	Stainless Steel A2-A4	Duplex Stainless Steel
<b>LIMITED EXPOSURE PARTS</b>			
Quench /Seal Cooling Chamber	Stainless Steel Type 316L	Stainless Steel Type 316L	Duplex Stainless Steel
Pump Cover - DoorLe Assembly	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron	ASTM A48 Grey Iron
NON-WETTED PARTS	with PTFE / Ceramic Teflon etched on face	with PTFE / Ceramic Teflon etched on face	with PTFE / Ceramic Teflon etched on face
Gears	Carbon Steel Opt. Engineer Rec.	Carbon Steel Opt. Engineer Rec.	Carbon Steel Opt. Engineer Rec.
Gear Housing	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel
Shaft	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron	ASTM A48 Grey Iron
PAINTING REQUIREMENTS	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel
Standard Painting	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint
	LobePro Blue	LobePro Silver	LobePro Silver

NOTE: Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. \*Consult Factory for application temperature above 80°C (175°F).

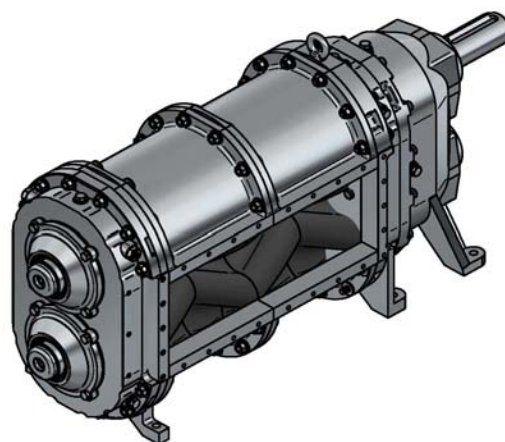








# L531d



## Positive Displacement Rotary Lobe Pumps

### SPECIFICATIONS

#### US

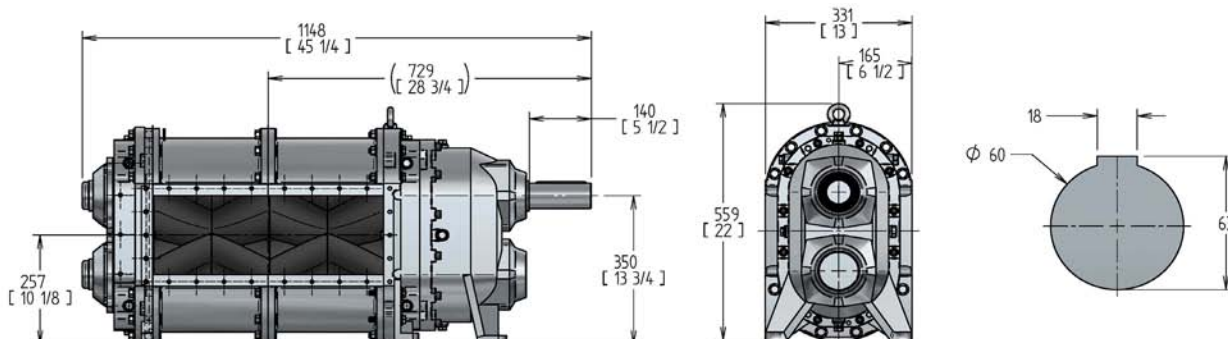
#### Metric

Rated Capacity:	0-2,655 gpm	0-603 m <sup>3</sup> /h
Displacement (per 100 revolutions):	531 gal (US)	2,002 L
Working Pressure:	70 psi	4.8 bar
Max. Pressure:	87 psi	6 bar
Starting Torque:	3,857 in lbf	436 N m
Rated Speed:	0-500 RPM	0-500 RPM
Shaft Diameter:	2.4"	60 mm
Flange Connection Class:	ANSI 16.5-150#	DN - PN 16
Flange Connection Size:	ANSI 10"	DN 200
Weight:	1,005 lbs	455 kg
Solids Handling		
Spherical Compressible	3"	76 mm
Spherical Hard*	1/8"	3 mm

\*Larger hard solids will pass through, but may cause damage.

MODEL >	SL531d	CL531d	DL531d
Service	Sludge, Mud and Slurries*	Chemical/Corrosive	Oil, Gas & Abrasives
<b>WETTED PARTS</b>			
<b>Rotary Lobes</b>			
Elastomer	NBR Opt. HNBR, FKM, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.
Lobe Profile	Helix	Helix	Helix
Number of lobe wings	4	4	4
Core	Carbon Steel	Carbon Steel	Carbon Steel
<b>Sealing Elastomers</b>			
O-rings	FKM	FKM or Engineer Recommendation	FKM or Engineer Recommendation
Lip seals	FKM or Engineer Recommendation	FKM or Engineer Recommendation	FKM or Engineer Recommendation
<b>Mechanical Seals</b>			
Mechanical Seal	Duronit Opt. Tungsten Carbide, Silicon Carbide, or Eng. Rec.	Silicon Carbide Opt. Tungsten Carbide or Engineer Rec.	Silicon Carbide Opt. Tungsten Carbide or Engineer Rec.
Seal Holders	Carbon Steel with Corrosion resistant coating	Stainless Steel Type 316	Duplex Stainless Steel
Wear Plates	AR500 Steel (Brinell 500)	Stainless Steel Type 316	Duplex Stainless Steel
Housing Segments	ASTM A48 Grey Iron rust primed	Duplex Stainless Steel	Duplex Stainless Steel
Flange Ring	ASTM A36 Carbon Steel	Stainless Steel Type 316L	Duplex Stainless Steel
Bolts	Carbon Steel ISO 898-I	Stainless Steel A2-A4	Duplex Stainless Steel
Pressure Disc	Stainless Steel Type 316L	Stainless Steel Type 316L	Duplex Stainless Steel
<b>LIMITED EXPOSURE PARTS</b>			
Quench /Seal Cooling Chamber	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron with PTFE / Ceramic Teflon etched on face	ASTM A48 Grey Iron with PTFE / Ceramic Teflon etched on face
Pump Cover - Door/Ld Assembly	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron Opt. Engineer Rec.	ASTM A48 Grey Iron Opt. Engineer Rec.
<b>NON-WETTED PARTS</b>			
Gears	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel
Gear Housing	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron	ASTM A48 Grey Iron
Shaft	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel
<b>PAINTING REQUIREMENTS</b>			
Standard Painting	SSPC/SP6 Sandblast Paint LobePro Blue	SSPC/SP6 Sandblast Paint LobePro Silver	SSPC/SP6 Sandblast Paint LobePro Silver

NOTE: Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. \*Consult Factory for application temperature above 80°C (175°F).



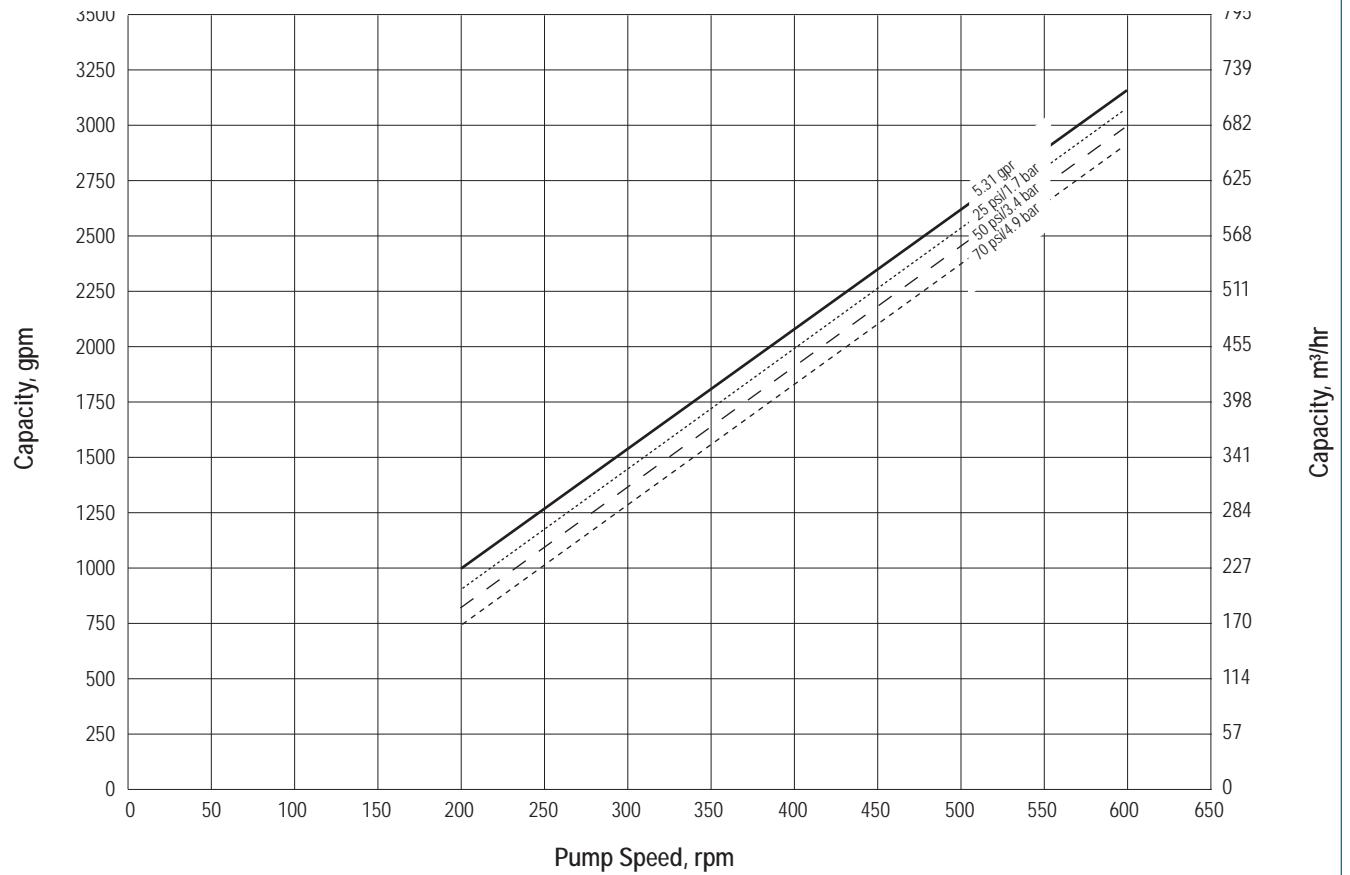
## Section 40-70

5 March 2017

### L531d CURVES

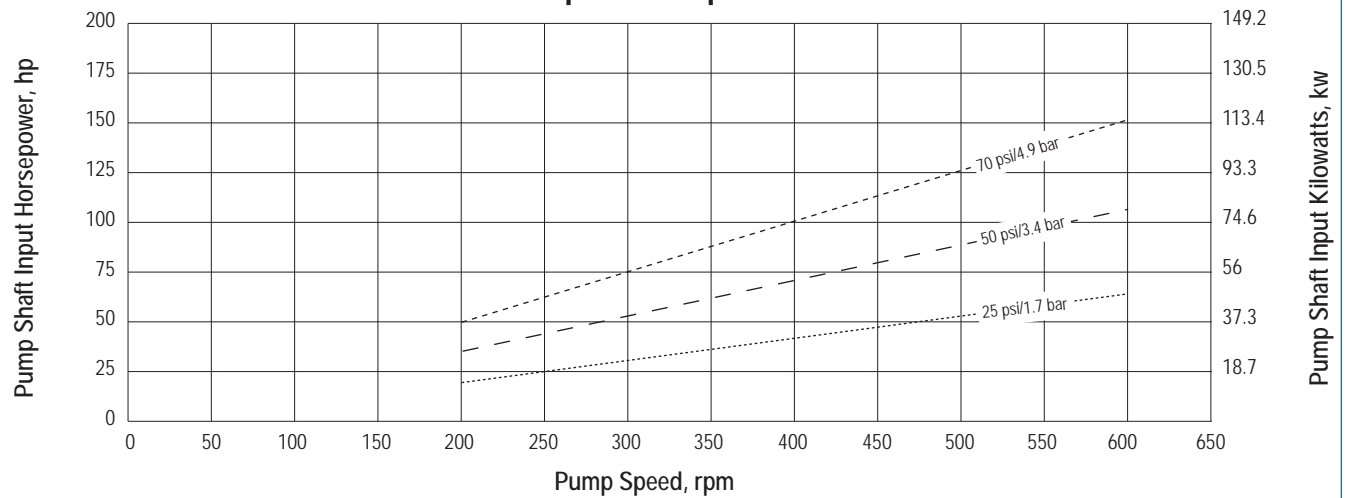
#### Performance Curve - NBR Lobes\*

Based on 70°F (21°C) fresh water (1 cp) at Sea Level.  
Output will increase as viscosity of the fluid increases from 1.



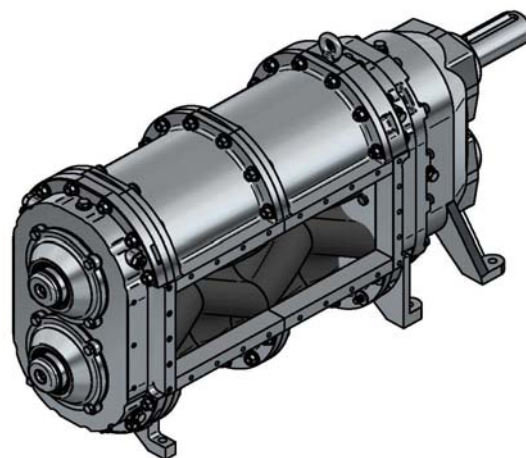
\*Note: Output from lobes coated with elastomers other than NBR maybe lower. Contact Engineering for further information.

#### Horsepower Requirements





# L531e



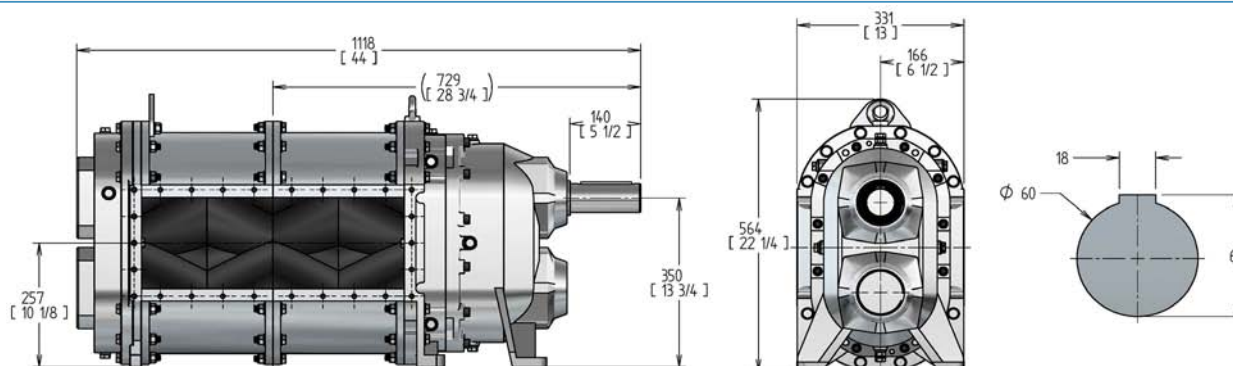
## Positive Displacement Rotary Lobe Pumps

SPECIFICATIONS	US	Metric
Rated Capacity:	0-2,655 gpm	0-603 m <sup>3</sup> /h
Displacement (per 100 revolutions):	531 gal (US)	2,002 L
Working Pressure:	70 psi	4.8 bar
Max. Pressure:	87 psi	6 bar
Starting Torque:	3,857 in lbf	436 N m
Rated Speed:	0-500 RPM	0-500 RPM
Shaft Diameter:	2.4"	60 mm
Flange Connection Class:	ANSI 16.5-150#	DN - PN 16
Flange Connection Size:	ANSI 10"	DN 200
Weight:	995 lbs	450 kg
Solids Handling		
Spherical Compressible	3"	76 mm
Spherical Hard*	1/8"	3 mm

\*Larger hard solids will pass through, but may cause damage.

MODEL >	SL531e	CL531e	DL531e
Service	Sludge, Mud and Slurries*	Chemical/Corrosive	Oil, Gas & Abrasives
<b>WETTED PARTS</b>			
<b>Rotary Lobes</b>			
Elastomer	NBR Opt. HNBR, FKM, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.	FKM or HNBR Opt. NBR, EPDM or Eng. Rec.
Lobe Profile	Helix	Helix	Helix
Number of lobe wings	4	4	4
Core	Carbon Steel	Carbon Steel	Carbon Steel
<b>Sealing Elastomers</b>			
O-rings	FKM	FKM or Engineer Recommendation	FKM or Engineer Recommendation
Lip seals	FKM or Engineer Recommendation	FKM or Engineer Recommendation	FKM or Engineer Recommendation
<b>Mechanical Seals</b>			
Mechanical Seal	Duronit	Silicon Carbide	Silicon Carbide
	Opt. Tungsten Carbide, Silicon Carbide, or Eng. Rec.	Opt. Tungsten Carbide or Engineer Rec.	Opt. Tungsten Carbide or Engineer Rec.
Seal Holders	Carbon Steel with Corrosion resistant coating	Stainless Steel Type 316	Duplex Stainless Steel
<b>Wear Plates</b>	AR500 Steel (Brinell 500)	Stainless Steel Type 316	Duplex Stainless Steel
<b>Housing Segments</b>	ASTM A48 Grey Iron rust primed	Duplex Stainless Steel	Duplex Stainless Steel
<b>Flange Ring</b>	ASTM A36 Carbon Steel	Stainless Steel Type 316L	Duplex Stainless Steel
<b>Bolts</b>	Carbon Steel ISO 898-I	Stainless Steel A2-A4	Duplex Stainless Steel
<b>Pressure Disc</b>	Stainless Steel Type 316L	Stainless Steel Type 316L	Duplex Stainless Steel
<b>LIMITED EXPOSURE PARTS</b>			
<b>Quench /Seal Cooling Chamber</b>	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron with PTFE / Ceramic Teflon etched on face	ASTM A48 Grey Iron with PTFE / Ceramic Teflon etched on face
<b>Pump Cover - DoorLe Assembly</b>	Carbon Steel	Carbon Steel Opt. Engineer Rec.	Carbon Steel Opt. Engineer Rec.
<b>NON-WETTED PARTS</b>			
<b>Gears</b>	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel	GMA Class 9 AISI 1045 steel
<b>Gear Housing</b>	ASTM A48 Grey Iron rust primed	ASTM A48 Grey Iron	ASTM A48 Grey Iron
<b>Shaft</b>	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel
<b>PAINTING REQUIREMENTS</b>			
<b>Standard Painting</b>	SSPC/SP6 Sandblast Paint LobePro Blue	SSPC/SP6 Sandblast Paint LobePro Silver	SSPC/SP6 Sandblast Paint LobePro Silver

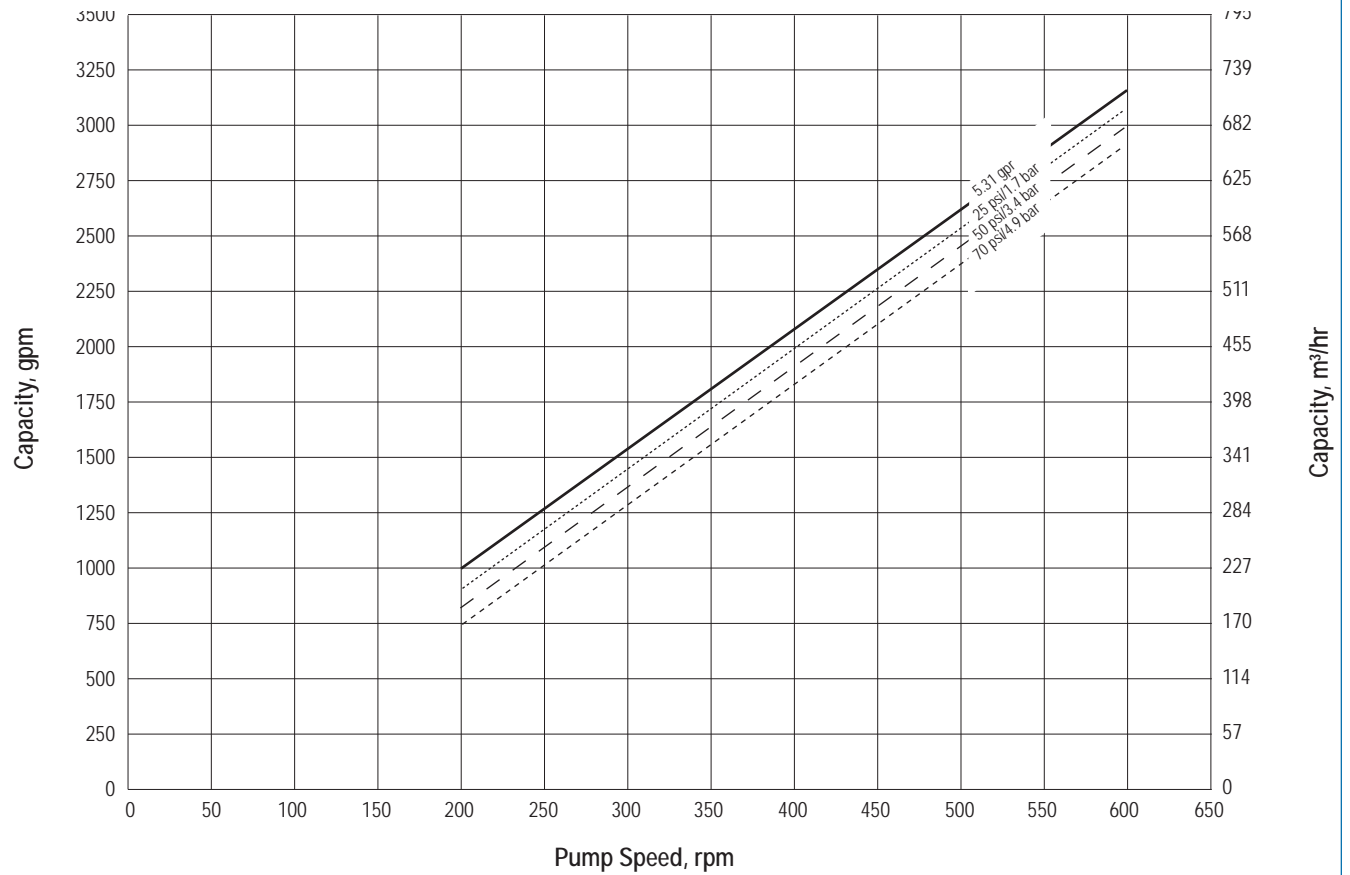
NOTE: Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. \*Consult Factory for application temperature above 80°C (175°F).



## L531e CURVES

**Performance Curve - NBR Lobes\***

Based on 70°F (21°C) fresh water (1 cp) at Sea Level.  
Output will increase as viscosity of the fluid increases from 1.



\*Note: Output from lobes coated with elastomers other than NBR maybe lower. Contact Engineering for further information.

**Horsepower Requirements**