

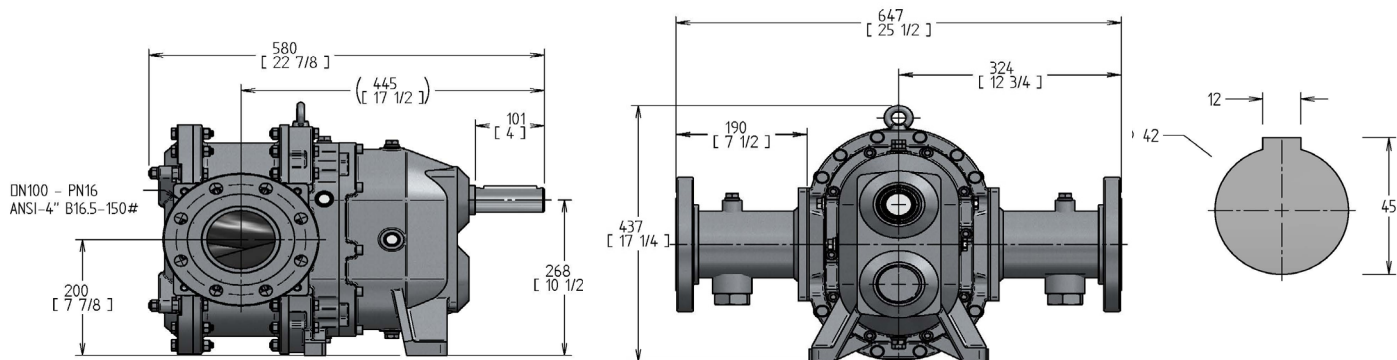
## Positive Displacement Rotary Lobe Pumps

SPECIFICATIONS	US	Metric
Rated Capacity:	0-408 gpm	0-93 m <sup>3</sup> /h
Displacement (per 100 revolutions):	68 gal (US)	256 L
Maximum Continuous Pressure:	100 psi	6.9 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:	311 lbs	140 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 or HNBR Opt. 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, Opt. Straight	Helix, Opt. Straight	Helix, Opt. Straight
Number of lobe wings	4, Opt. 2	4, Opt. 2	4, Opt. 2
Core	Carbon Steel or Eng. Rec.	Carbon Steel or Eng. Rec.	Carbon Steel or Eng. Rec.
<b>Sealing Elastomers</b>			
O-rings	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
<b>Mechanical Seals</b>			
Type	LARS, Opt. Tabbed LARS or CART	LARS, Opt. Tabbed LARS or CART	LARS, Opt. Tabbed LARS or CART
Mechanical Seal	Duronit	Silicon Carbide	Tungsten Carbide
Seal Holders	Opt. Tungsten Carbide, Silicon Carbide, or Eng. Rec. Carbon Steel w/ CR coating Opt. 316SS	Opt. Tungsten Carbide or Engineer Rec. Stainless Steel Type 316	Opt. Silicon Carbide or Engineer Rec. Duplex Stainless Steel
Wear Plates	AR500 Steel (Brinell 500)	Duplex Stainless Steel	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
Strain Bolts	Geomet Coated Steel	Stainless Steel A2-A4	Duplex Stainless Steel
Wear Plate Bolts	Stainless Steel A2-A4	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	CIT Coated ASTM Grey Iron	CIT Coated ASTM Grey Iron
Pump Cover	Opt. Steel or Duplex SS Adapter / A48 Non-wetted ASTM A48 Grey Iron rust primed	Opt. Duplex SS Adapter / A48 Non-wetted 316 Stainless Steel Opt. CIT coated Grey Iron	Opt. Duplex SS Adapter / A48 Non-wetted Duplex Stainless Steel Opt. CIT coated Grey Iron
<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 rust primed	ASTM A48 Grey Iron rust primed
Shaft	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel
Pump Assembly/External Bolts	Carbon Steel ISO 898-1	Stainless Steel A2-A4	Stainless Steel A2-A4
<b>PAINTING REQUIREMENTS</b>			
Standard Painting	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint
Color	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).



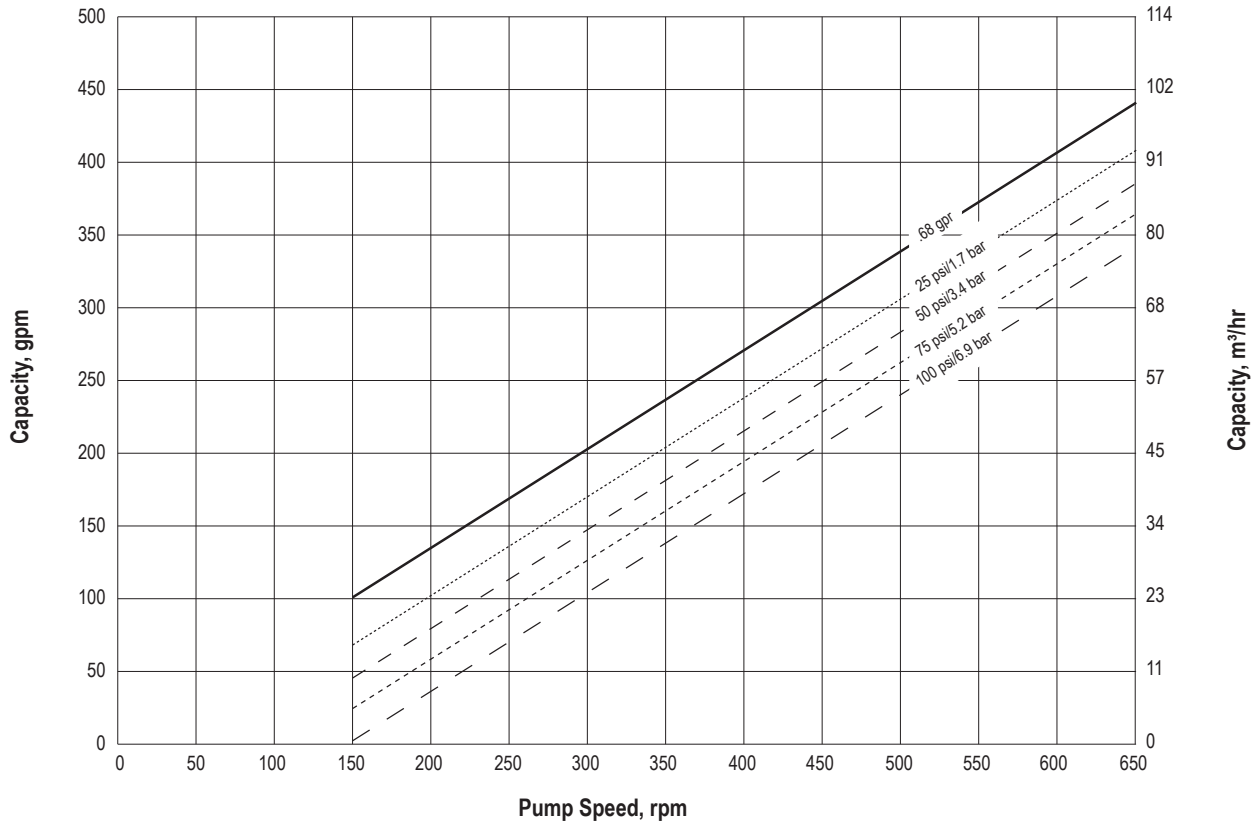
**Section 40-20**

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**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**

