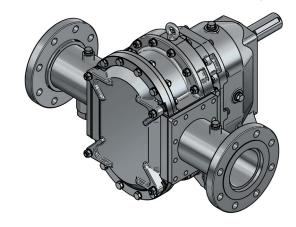


M50

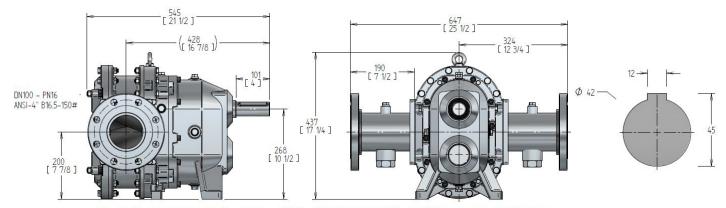
SPECIFICATIONS	US	Metric
Rated Capacity: Displacement (per 100 revolutions): Maximum Continuous Pressure: Starting Torque: Rated Speed: Shaft Diameter: Flange Connection Class: Flange Connection Size: Weight: Solids Handling: Spherical Compressible Spherical Hard* * Larger hard solids will pass through but n	0-300 gpm 50 gal (US) 125 psi 1,273 in lbf 0-600 RPM 1.65" ANSI 16.5-150# ANSI 4" 290 lbs 1.5" 1/8" nay cause damage.	0-68 m³/h 189 L 8.6 bar 144 N m 0-600 RPM 42 mm DN – PN 16 DN 100 132 kg 38 mm 3 mm



Positive Displacement Rotary Lobe Pumps

MODEL >	SM50	CM50	DM50
Service	Sludge, Mud and Slurries*	Chemical/Corrosive	Oil, Gas & Abrasives
WETTED PARTS			
Rotary Lobes			
Elastomer Lobe Profile	NBR Opt. HNBR, FKM, EPDM or Eng. Rec. Helix	FKM or HNBR Opt. NBR, EPDM or Eng. Rec. Helix	FKM or HNBR Opt. NBR, EPDM or Eng. Rec. Helix
Number of lobe wings Core	4 Carbon Steel	4 Carbon Steel	4 Carbon Steel
Sealing Elastomers	34,35,7 3,55	34.35.1 5.55.1	04.20.1 0.00.
O-rings Lip seals	FKM FKM or Engineer Recommendation	FKM or Engineer Recommendation FKM or Engineer Recommendation	FKM or Engineer Recommendation FKM or Engineer Recommendation
Mechanical Seals	, , , , , , , , , , , , , , , , , , ,	3	3
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)	Duplex Stainless Steel	Duplex Stainless Steel
Housing Segments	ASTM A48 Grey Iron rust primed	Stainless Steel Type 316 or Duplex	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
LIMITED EXPOSURE PARTS			
Quench /Seal Cooling Chamber	ASTM A48 Grey Iron rust primed	ASTM A48 Grev Iron	ASTM A48 Grev Iron
querion 700ai 000mig onamber	7.6 TM 7.10 Groy Horr tuot primod	with PTFE / Ceramic Teflon etched on face	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 Stee
NON-WETTED PARTS		•	
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
PAINTING REQUIREMENTS			•
Standard Painting	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint
	LobePro Blue	LobePro Silver	LobePro Silver

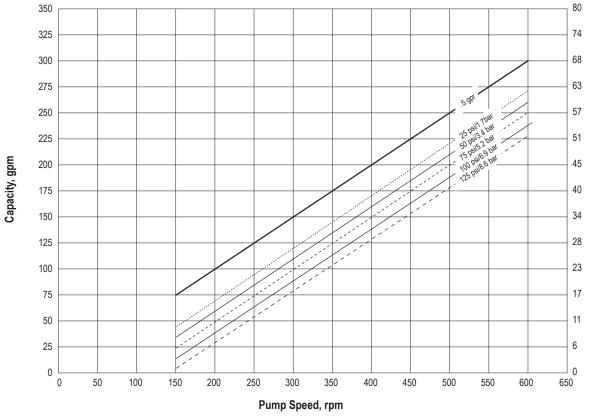
NOTE: Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. *Consult Factory for application temperature above 80°C (175°F).



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.



Capacity, m³/hr

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

