

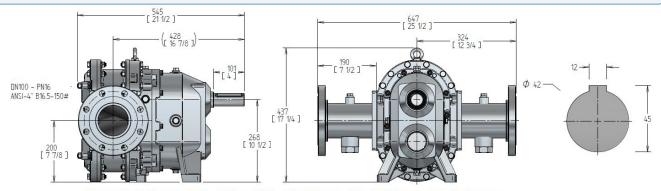
M50

API 676 Compliant Positive Displacement Rotary Lobe Pumps

SPECIFICATIONS	US	Metric	
Rated Capacity: Displacement (per 100 revolutions): Maximum Continuous Pressure: Starting Torque: Rated Speed: Shaft Diameter: Flange Connection Class:	0-300 gpm 50 gal (US) 125 psi 1,273 in lbf 0-600 RPM** 1.65" ANSI 16.5-150#	0-68 m³/h 189 L 8.6 bar 144 N m 0-600 RPM** 42 mm DN – PN 10	
Flange Connection Size: Weight: Solids Handling:	ANSI 4" 290 lbs	DN 100 132 kg	
Spherical Compressible Spherical Hard*	1.5" 1/8"	38 mm 3 mm	Contraction of Contraction
NPSH required:	3 ft.	1 m	

MODEL >	API-SM50	API-CM50	API-DM50
Service	Non-Corrosive Sludge & Slurries		Oil, Gas, Abrasive and Corrosiv
WETTED PARTS	Č.		
Rotary Lobes			
Elastomer Options	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, Option Straight	Helix, Option Straight	Helix, Option 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.
Sealing Elastomers	5	5	5
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
Shaft Seal / Mechanical Seals*	· · ···· •	· · · · · · · · · · · · · · · · · · ·	· · ··· - · -··g·····
Туре	LARS Single Mechanical, Opt. Tabbed or CART	LARS Single Mechanical, Opt. Tabbed or CART	LARS Single Mechanical, Opt. Tabbed or CART
Flushing	Internal Oil Cooled.	Internal Oil Cooled.	Internal Oil Cooled.
Seal Faces	Duronit, Opt. Silicon Carbide or Tungsten Carbide	Silicon Carbide, Opt. Tungsten Carbide	Tungsten Carbide, Opt. Silicon Carbide
Seal Holders	Carbon Steel with CR coating, Opt. 316SS	316 Stainless Steel	2205 Duplex
Seal Inspection & Removal	May be accomplished without removing driver	May be accomplished without removing driver	May be accomplished without removing driver
Wear Plates	AR500 Steel (Brinell 500)	Duplex Stainless Steel	Duplex Stainless Steel
Housing Segments	Duplex CD3Mn Stainless Steel or Eng. Rec.	Duplex CD3Mn Stainless Steel	Duplex CD3Mn Stainless Steel
Flange:	Carbon Steel	316 Stainless Steel	Duplex Stainless Steel
Bolts- Strain Bolt	Geomet Coated Steel	Stainless Steel A2-A4	Duplex Stainless Steel
Bolts - Wear Plate	Stainless Steel A2-A4	Stainless Steel A2-A4	Duplex Stainless Steel
Pressure Disc	Stainless Steel Type 316L	Stainless Steel Type 316L	Duplex Stainless Steel
LIMITED EXPOSURE PARTS			
Pump Cover	Carbon Steel or ASTM A48 Grey Iron	316L SS Cover or Eng. Recomm.	Duplex SS Cover or Eng. Recomm.
Quench /Seal Cooling Chamber	ASTM A48 Grey Iron rust primed	CIT Coated ASTM Grev Iron	CIT Coated ASTM Grev Iron
······································	Opt. Steel or Duplex SS Adapter / A48 Non-wetted	Opt. Duplex SS Adapter / A48 Non-wetted	Opt. Duplex SS Adapter / A48 Non-wetted
NON-WETTED PARTS			
Timing Gears	AGMA Class 9 SAE 1045 steel	AGMA Class 9 SAE 1045 steel	AGMA Class 9 SAE 1045 steel
Gear Housing	ASTM A48 Grev Iron rust primed	ASTM A48 Grev Iron	ASTM A48 Grev Iron
Shaft	AISI 4140 Allov Steel	AISI 4140 Allov Steel	AISI 4140 Allov Steel
Shaft Keyways	Fillet radii conforming to ASME B17.2	Fillet radii conforming to ASME B17.2	Fillet radii conforming to ASME B17.2
Bearings	K5 Fit; C3 internal Clearance per AGMA7	K5 Fit; C3 internal Clearance per AGMA7	K5 Fit; C3 internal Clearance per AGMA7
Pump Assembly/External Bolts	Carbon Steel ISO 898-I	Stainless Steel A2-A4	Stainless Steel A2-A4
OTHER INFORMATION			
Welding	Operators qualified under ASME BPVC Section IX	Operators qualified under ASME BPVC Section IX	Operators qualified under ASME BPVC Section IX
Draining and Venting	Partially Drain capable. External venting required	Partially Drain capable. External venting required	Partially Drain capable. External venting required
Flammable/Hazardous Service	ATEX II 3G/D T3	ATEX II 3G/D T3	ATEX II 3G/D T3
PAINTING REQUIREMENTS			
Standard Painting	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint	SSPC/SP6 Sandblast Paint
Color	LobePro Blue	LobePro Silver	LobePro Silver
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NOTE: Summary of the principal features of the LobePro API 676 compliant pump. There are many other provisions of API 676 which apply to the pump. Our API series pumps comply with all of these provisions. *: Our mechanical seals do not comply with API-682 due to the space and design parameters of the pump. However, our seal is not an exception and is considered an "Engineered Seal" under API 676 Revision 4. Flushing with pumped fluid (sludge/slury) not desirable. Optional Plan 99 Oil Flush System available.



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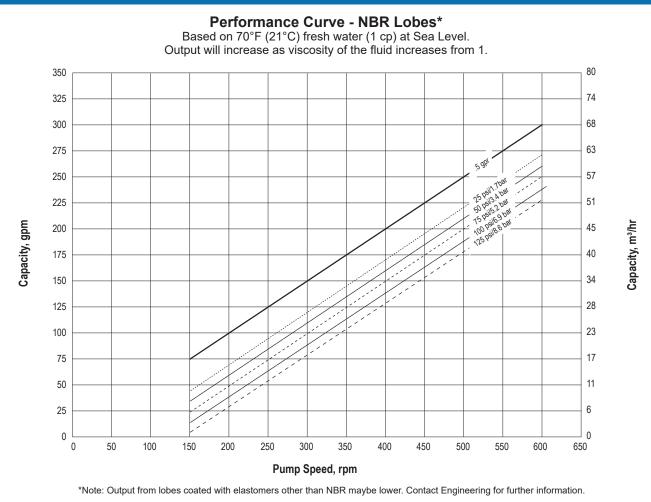
API-SM50, API-CM50, API-DM50 s Test Description

Standard Tests Test Des

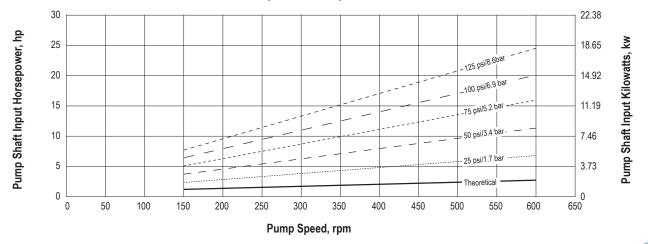
Hydrostatic Test Run Test Performance Test Sound Test Documentation Included Operates without leaking at 150% of MACP when hydro tested Tested to determine if the pump operates without excessive vibration or seal leaks throughout operating range. Tested at duty point to confirm pump curve. Shall be under 85 db's at a distance of 3 ft. (1 meter).

IOM section with material certifications, test data and results, record of heat treatments, results of quality control tests, and other data as agreed with Purchaser

M50 CURVES



Horsepower Requirements



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