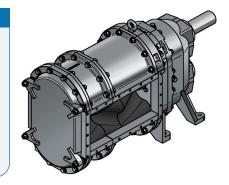


API 676 Compliant Positive Displacement Rotary Lobe Pumps

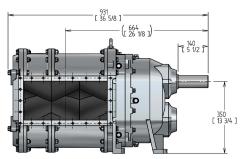
L399

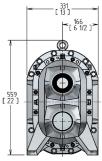
SPECIFICATIONS	US	Metric
Rated Capacity:	0-1,995 gpm	0-453 m³/h
Displacement (per 100 revolutions):	399 gal (ÜS)	1.504 L
Maximum Continuous Pressure:	40 psi	2.8 bar
Starting Torque:	3,857 in lbf	436 N m
Rated Speed:	0-500 RPM**	0-500 RPM
Shaft Diameter:	2.4"	60 mm
Flange Connection Class:	ANSI 16.5-150#	DN - PN 10
Flange Connection Size:	ANSI 10"	DN 200
Weight:	737 lbs	335 kg
Solids Handling		· ·
Spherical Compressible	3"	76 mm
Spherical Hard*	1/8"	3 mm
NPSH required:	3 ft.	1 m
* Larger hard solids will pass through but may	cause damage.	

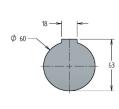


MODEL >	API-SL399	API-CL399	API-DL399
Service	Non-Corrosive Sludge & Slurries	Chemical/Corrosive	Oil, Gas, Abrasive and Corrosive
WETTED PARTS	,		, , , , , , , , , , , , , , , , , , , ,
Rotary Lobes			
Elastomer Options Lobe Profile	NBR, Opt. FKM, HNBR, EPDM or Eng. Rec. Helix	HNBR, Opt. FKM, NBR, EPDM or Eng. Rec. Helix	HNBR, Opt. FKM, NBR, EPDM or Eng. Rec. Helix
Number of lobe wings Core	4 Carbon Steel	4 Carbon Steel	4 Carbon Steel
Sealing Elastomers	Odiboli Steel	Carbon Steel	Carbon Steel
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
Shaft Seal / Mechanical Seals	s*		
Type Flushing Seal Faces Seal Holders	Single Mechanical Cartridge Internal Oil Cooled. Duronit, Opt. Silicon Carbide or Tungsten Carbide Carbon Steel with Corrosion resistant coating	Single Mechanical Cartridge Internal Oil Cooled. Silicon Carbide, Opt. Tungsten Carbide 316 Stainless Steel	Single Mechanical Cartridge Internal Oil Cooled. Silicon Carbide, Opt. Tungsten Carbide 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	Duplex CD3Mn Stainless Steel	Duplex CD3Mn Stainless Steel
Flange:	Carbon Steel	316 Stainless Steel	Duplex Stainless Steel
Bolts	316 SS Hex Head DIN 933	316 SS Hex Head DIN 933	Duplex SS Hex Head DIN 933
Bolts- Strain Bolt	Alloy Steel Socket Head DIN 912/ISO 4762	316 SS Socket Head DIN 912/ISO 4762, A2-A4	Duplex SS Socket Head DIN 912/ISO 4762
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	Carbon Steel or ASTM A48 Grey Iron	Carbon Steel or ASTM A48 Grey Iron
Quench/Seal Cooling Chamber	r ASTM Grey Iron Rust Primed.	SSPC-SP6 Sandblast/Paint Opt. 316L SS Cover ASTM Grey Iron SSPC-SP6 Sandblast/Paint with PTFE / Ceramic Teflon etched on face	SSPC-SP6 Sandblast/Paint Opt. Duplex SS Cover ASTM Grey IronSSPC-SP6 Sandblast/Paint with PTFE / Ceramic Teflon etched on face
NON-WETTED PARTS		Will The Focialitie Tellott clotted of Tade	with the footame renormationed of face
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 SSPC-SP6 Sandblast/Paint	ASTM A48 Grey Iron SSPC-SP6 Sandblast/Paint
Shaft	AISI 4140 Alloy Steel	AISI 4140 Alloy Steel	AISI 4140 Alloy 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
OTHER INFORMATION			
Welding		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

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/slurry) not desirable. Optional Plan 99 Oil Flush System available.







16 April 2018

MODEL > API-SL399, API-CL399, API-DL399

Standard Tests

Test Description

Capacity, m³/hr

Pump Shaft Input Kilowatts, kw

Hydrostatic Test Run Test Performance Test Sound Test 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).

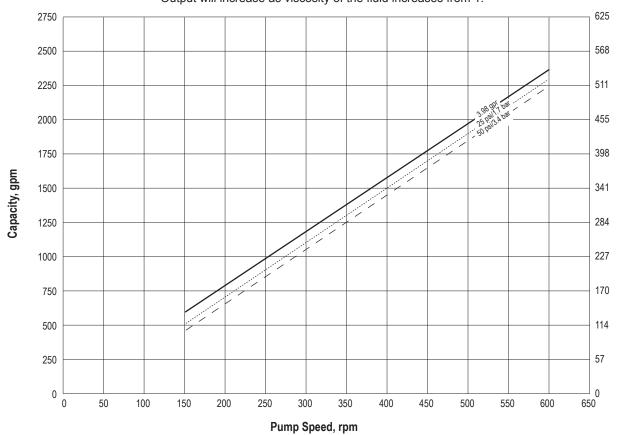
Documentation Included IOM section with material certifications, test data and results, record of heat treatments, results of quality control tests, and

other data as agreed with Purchaser

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.

