

**M68** 

# API 676 Compliant Positive Displacement Rotary Lobe Pumps

Rated Capacity: Displacement (per 100 revolutions): Maximum Continuous Pressure: Starting Torque: Rated Speed: Shaft Diameter: Flange Connection Class: Flange Connection Size: Weight: Solide Handling:	0-408 gpm 68 gal (US) 100 psi 1,417 in lbf 0-600 RPM** 1.65" ANSI 16.5-150# ANSI 16.5-150# 260 lbs	0-93 m <sup>3</sup> /h 256 L 6.9 bar 160 N m 0-600 RPM 42 mm DN – PN 10 DN 100 118 kg
Spherical Compressible Spherical Hard* NPSH required:	1.5" 1/8" 3.ft	38 mm 3 mm 1 m



MODEL >	API-SM68	API-CM68	API-DM68	
Service	Non-Corrosive Sludge & Slurries	Chemical/Corrosive	Oil. Gas. Abrasive and Corrosive	
WETTED PARTS			,,	
Rotary Lobes				
Elastomer Options	NBR, Opt. FKM, HNBR, EPDM or Eng. Rec.	HNBR, Opt. FKM, NBR, EPDM or Eng. Rec.	HNBR, Opt. FKM, NBR, EPDM or Eng. Rec.	
Lobe Profile	Helix	Helix	Helix	
Number of lobe wings	4 Carbon Stool	4 Carbon Stool	4 Carbon Stool	
	Carbon Steel	Carbon Steel	Carbon Steel	
	EKM	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 Seal	e*		i i i i i i i i i i i i i i i i i i i	
Type	Single Mechanical Cartridge	Single Mechanical Cartridge	Single Mechanical Cartridge	
Flushing	Internal Oil Cooled.	Internal Oil Cooled.	Internal Oil Cooled.	
Seal Faces	Duronit, Opt. Silicon Carbide or Tungsten Carbide	Silicon Carbide, Opt. Tungsten Carbide	Silicon Carbide, Opt. Tungsten Carbide	
Seal Holders	Carbon Steel with Corrosion resistant coating	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	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	
		SSPC-SP6 Sandblast/Paint Opt. 316L SS Cover	SSPC-SP6 Sandblast/Paint Opt. Duplex SS Cover	
Quench/Seal Cooling Chamber	r ASTM Grey Iron Rust Primed.	ASTM Grey Iron SSPC-SP6 Sandblast/Paint	ASTM Grey IronSSPC-SP6 Sandblast/Paint	
		with PIFE / Ceramic letion etched on face	with PIFE / Ceramic letion etched on face	
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 Grey Iron rust primed	ASTM A48 Grey 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 gualified under ASME BPVC Section IX	Operators gualified 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	
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.				

NOTE: Summary of the principal features of the Lober to 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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#### Section 35-20

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MODEL >

## API-SM68, API-CM68, API-DM68Standard Te

#### **Test Description**

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

### M68 CURVES





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