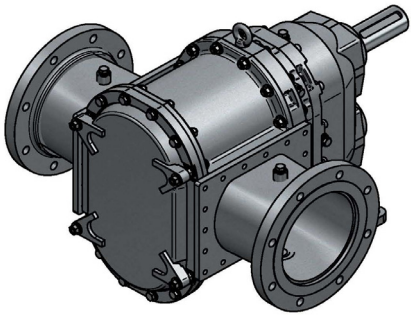
LOBEPRO ROTARY PUMPS

# API 676 Compliant Positive Displacement Rotary Lobe Pumps

# L266

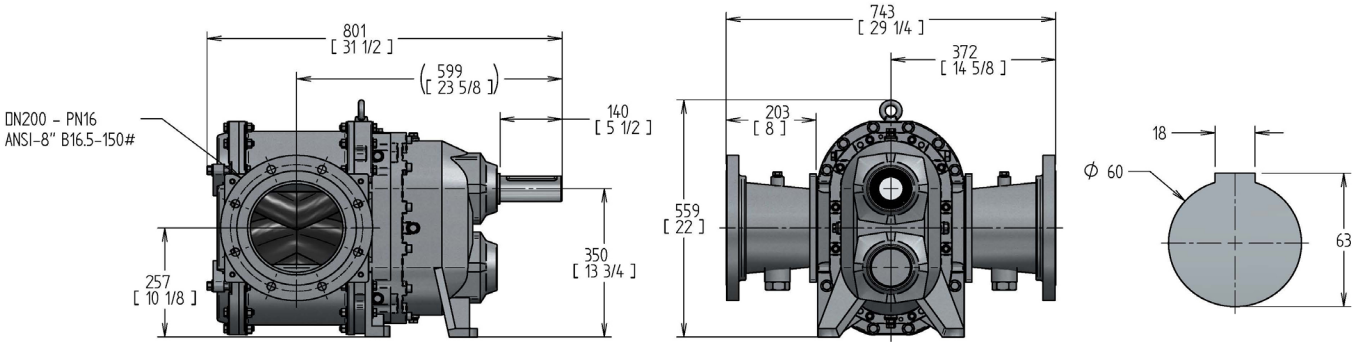
| SPECIFICATIONS | US | Metric |
|---|---|---|
| **Rated Capacity:** | 0-1,330 gpm | 0-302 m³/h |
| **Displacement (per 100 revolutions):** | 266 gal (US) | 1,003 L |
| **Maximum Continuous Pressure:** | 75 psi | 5.2 bar |
| **Starting Torque:** | 3,857 in lbf | 436 N m |
| **Rated Speed:** | 0-500 RPM | 0-500 RPM |
| **Shaft Diameter:** | 2.4" | 60 mm |
| **Flange Connection Class:** | ANSI 16.5-150# | DN – PN 10 |
| **Flange Connection Size:** | ANSI 8" | DN 200 |
| **Weight:** | 616 lbs | 280 kg |
| **Solids Handling** | | |
| **Spherical Compressible** | 3" | 76 mm |
| **Spherical Hard*** | 1/8" | 3 mm |

** Larger hard solids will pass through but may cause damage.*



| MODEL > | API-SL266 | API-CL266 | API-DL266 |
|---|---|---|---|
| **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 | 4 | 4 |
| Core | Carbon Steel | Carbon Steel | Carbon Steel |
| **Sealing Elastomers** | | | |
| 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*** | | | |
| 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 |
| **Quench/Seal Cooling Chamber** | 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** | | | |
| **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 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 |

**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.



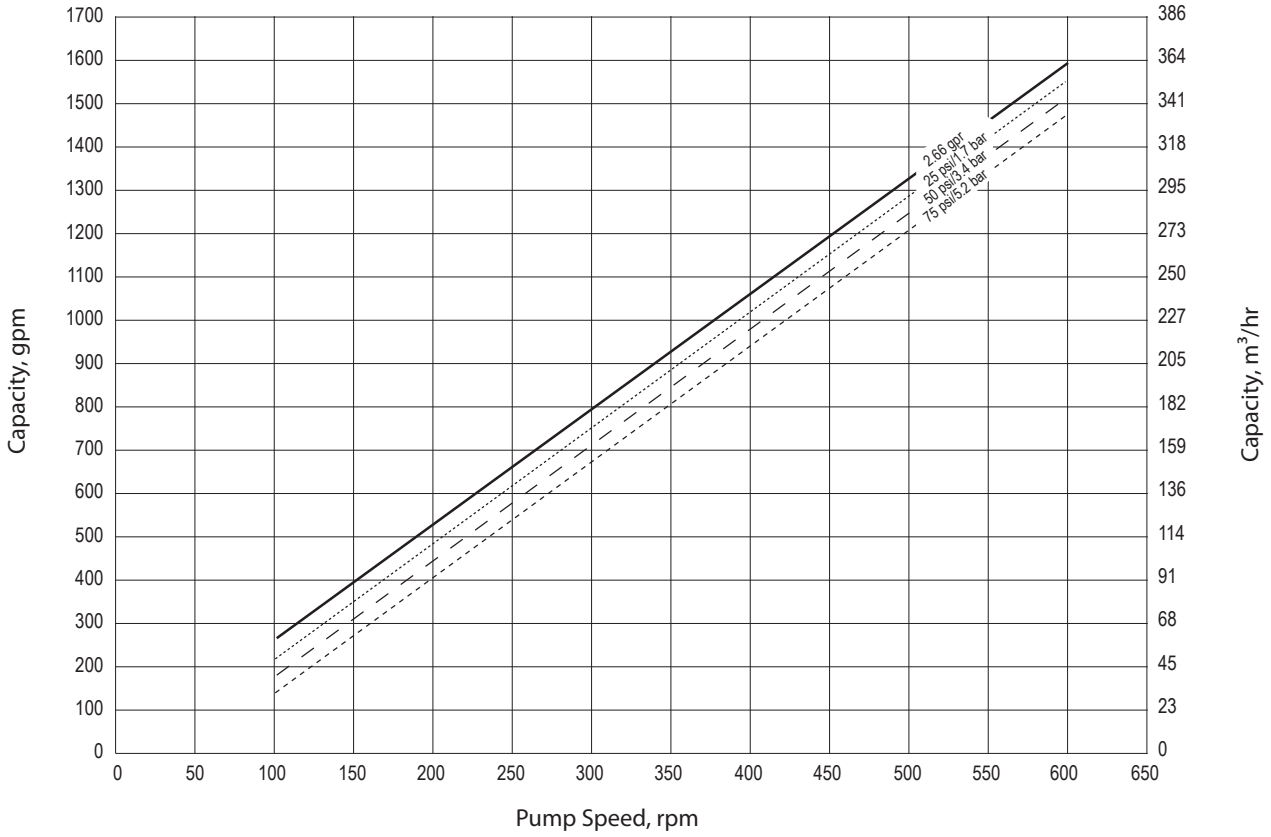
## MODEL > API-SL266, API-CL266, API-DL266

| Standard Tests | Test Description |
|---|---|
| **Hydrostatic Test** | Operates without leaking at 150% of MACP when hydro tested |
| **Run Test** | Tested to determine if the pump operates without excessive vibration or seal leaks throughout operating range. |
| **Performance Test** | Tested at duty point to confirm pump curve. |
| **Sound Test** | 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 |

## L266 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