

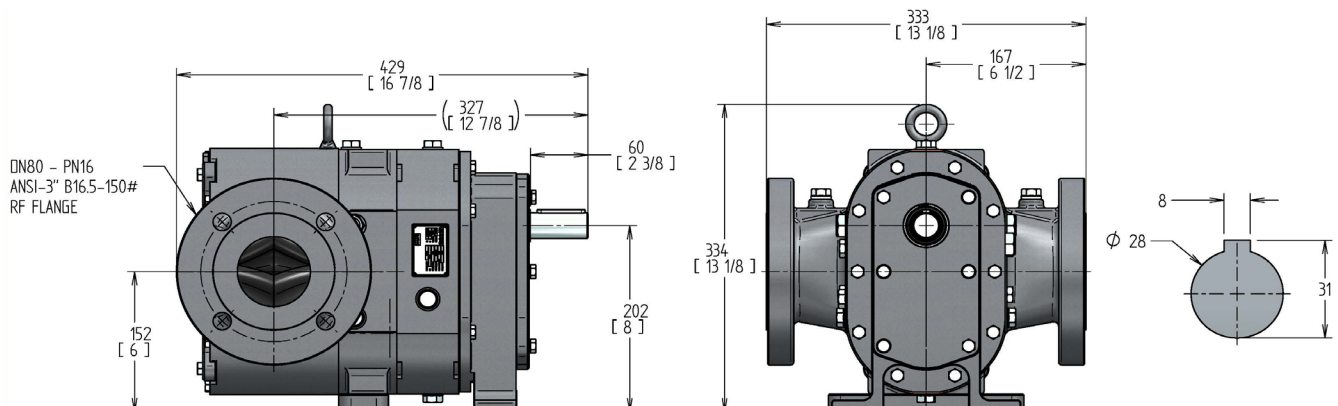
Positive Displacement Rotary Lobe Pumps

| SPECIFICATIONS | US | Metric |
|-------------------------------------|----------------|-------------------------|
| Rated Capacity: | 0-140 gpm | 0-32 M ³ /hr |
| Displacement (per 100 revolutions): | 16 gal (US) | 60 L |
| Working Pressure (continuous): | 150 psi | 10.3 Bar |
| Max. Pressure (intermittent): | 175 psi | 12.1 Bar |
| Rated Speed: | 0-900 RPM | 0-900 RPM |
| Flange Connection Class: | ANSI 16.5-150# | DN – PN 16 |
| Flange Connection Size: | ANSI 3" | DN 80 |
| Weight: | 175 lbs | 80 Kg |
| Solids Handling: | | |
| Spherical Compressible | 0.75" | 19 mm |
| Spherical Hard* | 1/8" | 3 mm |

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

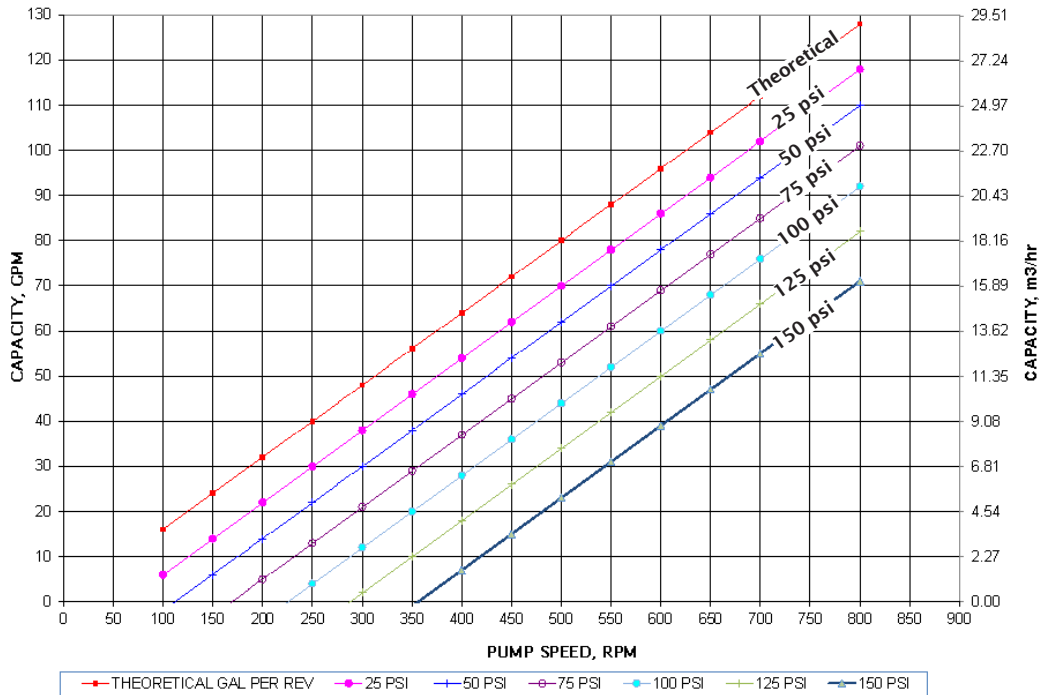
| MODEL > | SS16p | CS16p | DS16p | HS16p |
|--|--|--|--|--|
| Service | Sludge, Mud & Slurries | Chemical/Corrosive | Oil, Gas & Abrasives | Highly Corrosive, H2S |
| WETTED PARTS | | | | |
| Rotary Lobes | | | | |
| Elastomer | NBR Opt. HNBR, FKM, EPDM, Eng. Rec. | FKM or HNBR; Opt. NBR, EPDM, Eng. Rec. | FKM or HNBR Opt. NBR, EPDM, Eng. Rec. | FKM or HNBR Opt. NBR, EPDM, Eng. Rec. |
| Lobe Profile | Helix | Helix | Helix | Helix |
| Number of lobe wings | 6 | 6 | 6 | 6 |
| Core | Carbon Steel | Carbon Steel | Carbon Steel | Carbon Steel |
| Sealing Elastomers | | | | |
| O-rings | FKM | FKM or Engineer Recommendation | FKM or Engineer Recommendation | FKM or Engineer Recommendation |
| Lip seals | FKM or Engineer Recommendation | FKM or Engineer Recommendation | FKM or Engineer Recommendation | FKM or Engineer Recommendation |
| Mechanical Seals | | | | |
| Mechanical Seal | Duronit Opt. Tungsten Carbide or Silicon Carbide Carbon Steel with Corrosion resistant coating | Silicon Carbide Opt. Tungsten Carbide or Eng. Rec. Stainless Steel Type 316 | Silicon Carbide Opt. Tungsten Carbide or Eng. Rec. Duplex Stainless Steel | Silicon Carbide Opt. Tungsten Carbide or Eng. Rec. Duplex Stainless Steel |
| Seal Holders | | | | |
| Wear Plates | AR500 Steel (Brinell 500) | Stainless Steel Type 316 | Duplex Stainless Steel | Duplex Stainless Steel |
| Pump Wetend Housing | | | | |
| Proform design** | Class 30 Grey Iron | Duplex CD3Mn Stainless Steel | Duplex CD3Mn Stainless Steel | Hastelloy™ CW-2M |
| Incorporates Housing Segment, Flange Ring, Barrier Plate and Integral Suction and Discharge Flange Fittings in one piece | | | | |
| Bolts | Steel ASTM F568/ISO 898/1 | Stainless Steel A2-A4 | Duplex Stainless Steel A2-A4 | Duplex Stainless Steel A2-A4 |
| Bolts- Strain Bolt | ASTM A574M-12.9 Geomet Plus Coated | Stainless Steel Type 316 | Duplex Stainless Steel | Duplex Stainless Steel |
| Pressure Disc | Stainless Steel Type 316L | Stainless Steel Type 316L | Duplex Stainless Steel | Duplex Stainless Steel |
| LIMITED EXPOSURE PARTS | | | | |
| Pump Cover | Carbon Steel Opt. Engineering Rec. | Carbon Steel - SSPC-SP6 Sandblast/Paint Opt. Eng. Rec. | Carbon Steel - SSPC-SP6 Sandblast/Paint Opt. Eng. Rec. | Carbon Steel - SSPC-SP6 Sandblast/Paint Opt. Eng. Rec. |
| NON-WETTED PARTS | | | | |
| Quench /Seal Cooling Chamber | Carbon Steel or ASTM A48 Grey Iron rust primed | Carbon Steel or ASTM A48 Grey Iron SSPC-SP6 Sandblast/Paint with PTFE/Ceramic Teflon etched on face | Carbon Steel or ASTM A48 Grey Iron SSPC-SP6 Sandblast/Paint with PTFE/Ceramic Teflon etched on face | Carbon Steel or ASTM A48 Grey Iron SSPC-SP6 Sandblast/Paint with PTFE/Ceramic Teflon etched on face |
| Gears | AGMA Class 9 SAE 1045 steel | AGMA Class 9 SAE 1045 steel | AGMA Class 9 SAE 1045 steel | AGMA Class 9 SAE 1045 steel |
| Quench /Seal Cooling Chamber | Carbon Steel or ASTM A48 Grey Iron rust primed | Carbon Steel or ASTM A48 Grey Iron SSPC-SP6 Sandblast/Paint | Carbon Steel or ASTM A48 Grey Iron SSPC-SP6 Sandblast/Paint | Carbon Steel or ASTM A48 Grey Iron SSPC-SP6 Sandblast/Paint |
| Shaft | AISI 4140 Alloy Steel | AISI 4140 Alloy Steel | AISI 4140 Alloy Steel | AISI 4140 Alloy Steel |

NOTE: A wide range of optional materials are available for each model. Above specs are for standard builds. Consult LobePro for further information.
*Consult Factory for application temperature above 80°C (175°F); **Component Design available.



S16 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

