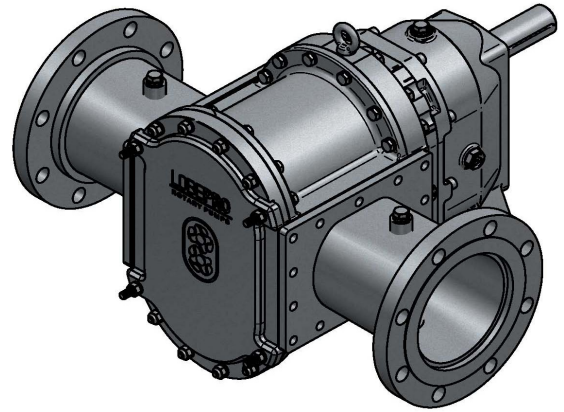




# M100



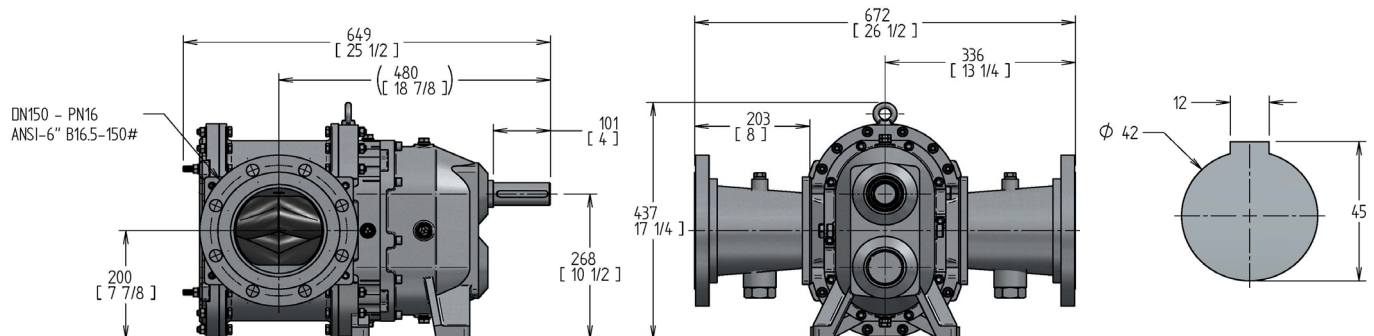
| SPECIFICATIONS                      | US             | Metric                  |
|-------------------------------------|----------------|-------------------------|
| Rated Capacity:                     | 0-600gpm       | 0-136 m <sup>3</sup> /h |
| Displacement (per 100 revolutions): | 100 gal (US)   | 377 L                   |
| Maximum Continuous Pressure:        | 50 psi         | 3.4 bar                 |
| Starting Torque:                    | 1,685 in lbf   | 190 N m                 |
| Rated Speed:                        | 0-600 RPM      | 0-600 RPM               |
| Shaft Diameter:                     | 1.65"          | 42 mm                   |
| Flange Connection Class:            | ANSI 16.5-150# | DN - PN 16              |
| Flange Connection Size:             | ANSI 6"        | DN 150                  |
| Weight:                             | 390 lbs        | 175 kg                  |
| Solids Handling:                    |                |                         |
| Spherical Compressible              | 1.5"           | 38 mm                   |
| Spherical Hard*                     | 1/8"           | 3 mm                    |

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

## Positive Displacement Rotary Lobe Pumps

| MODEL >                             | SM100  | CM100   | DM100   |
|-------------------------------------|--|---|---|
| <b>Service</b>                      | Sludge, Mud and Slurries*  | Chemical/Corrosive  | Oil, Gas & Abrasives  |
| <b>WETTED PARTS</b>                 |  |   |   |
| <b>Rotary Lobes</b>                 |  |   |   |
| Elastomer                           | NBR Opt. HNBR, 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  | Helix   | Helix   |
| Number of lobe wings                | 4  | 4   | 4   |
| Core                                | Carbon Steel   | Carbon Steel  | Carbon Steel  |
| <b>Sealing Elastomers</b>           |  |   |   |
| 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                                |
| <b>Mechanical Seals</b>             |  |   |   |
| Mechanical Seal                     | Duronit  | Silicon Carbide   | Silicon Carbide   |
| Seal Holders                        | Opt. Tungsten Carbide, Silicon Carbide, or Eng. Rec. Carbon Steel with Corrosion resistant coating | Opt. Tungsten Carbide or Engineer Rec. Stainless Steel Type 316 | Opt. Tungsten Carbide or Engineer Rec. Duplex Stainless Steel |
| <b>Wear Plates</b>                  | AR500 Steel (Brinell 500)  | Duplex Stainless Steel  | Duplex Stainless Steel  |
| <b>Housing Segments</b>             | ASTM A48 Grey Iron rust primed   | Stainless Steel Type 316 or Duplex                              | Duplex Stainless Steel  |
| <b>Flange Ring</b>                  | ASTM A36 Carbon Steel  | Stainless Steel Type 316L                                       | Duplex Stainless Steel  |
| <b>Bolts</b>                        | Carbon Steel ISO 898-I   | Stainless Steel A2-A4   | Duplex Stainless Steel  |
| <b>Pressure Disc</b>                | Stainless Steel Type 316L  | Stainless Steel Type 316L                                       | Duplex Stainless Steel  |
| <b>LIMITED EXPOSURE PARTS</b>       |  |   |   |
| <b>Quench /Seal Cooling Chamber</b> | ASTM A48 Grey Iron rust primed   | ASTM A48 Grey Iron with PTFE / Ceramic Teflon etched on face    | ASTM A48 Grey Iron with PTFE / Ceramic Teflon etched on face  |
| <b>Pump Cover</b>                   | ASTM A48 Grey Iron rust primed   | ASTM A48 Grey Iron Opt. 316 Stainless Steel                     | ASTM A48 Grey Iron Opt. Duplex Stainless Steel                |
| <b>NON-WETTED PARTS</b>             |  |   |   |
| <b>Gears</b>                        | GMA Class 9 AISI 1045 steel  | GMA Class 9 AISI 1045 steel                                     | GMA Class 9 AISI 1045 steel                                   |
| <b>Gear Housing</b>                 | ASTM A48 Grey Iron rust primed   | ASTM A48 Grey Iron rust primed                                  | ASTM A48 Grey Iron rust primed                                |
| <b>Shaft</b>                        | AISI 4140 Alloy Steel  | AISI 4140 Alloy Steel   | AISI 4140 Alloy Steel   |
| <b>PAINTING REQUIREMENTS</b>        |  |   |   |
| <b>Standard Painting</b>            | SSPC/SP6 Sandblast Paint<br>LobePro Blue   | SSPC/SP6 Sandblast Paint<br>LobePro Silver                      | SSPC/SP6 Sandblast Paint<br>LobePro Silver                    |

**NOTE:** Listed above are standard pump assemblies; lobe styles and materials subject to recommendation by LobePro Engineering. A wide range of optional materials are available for each model. Consult LobePro for further information. \*Consult Factory for application temperature above 80°C (175°F).



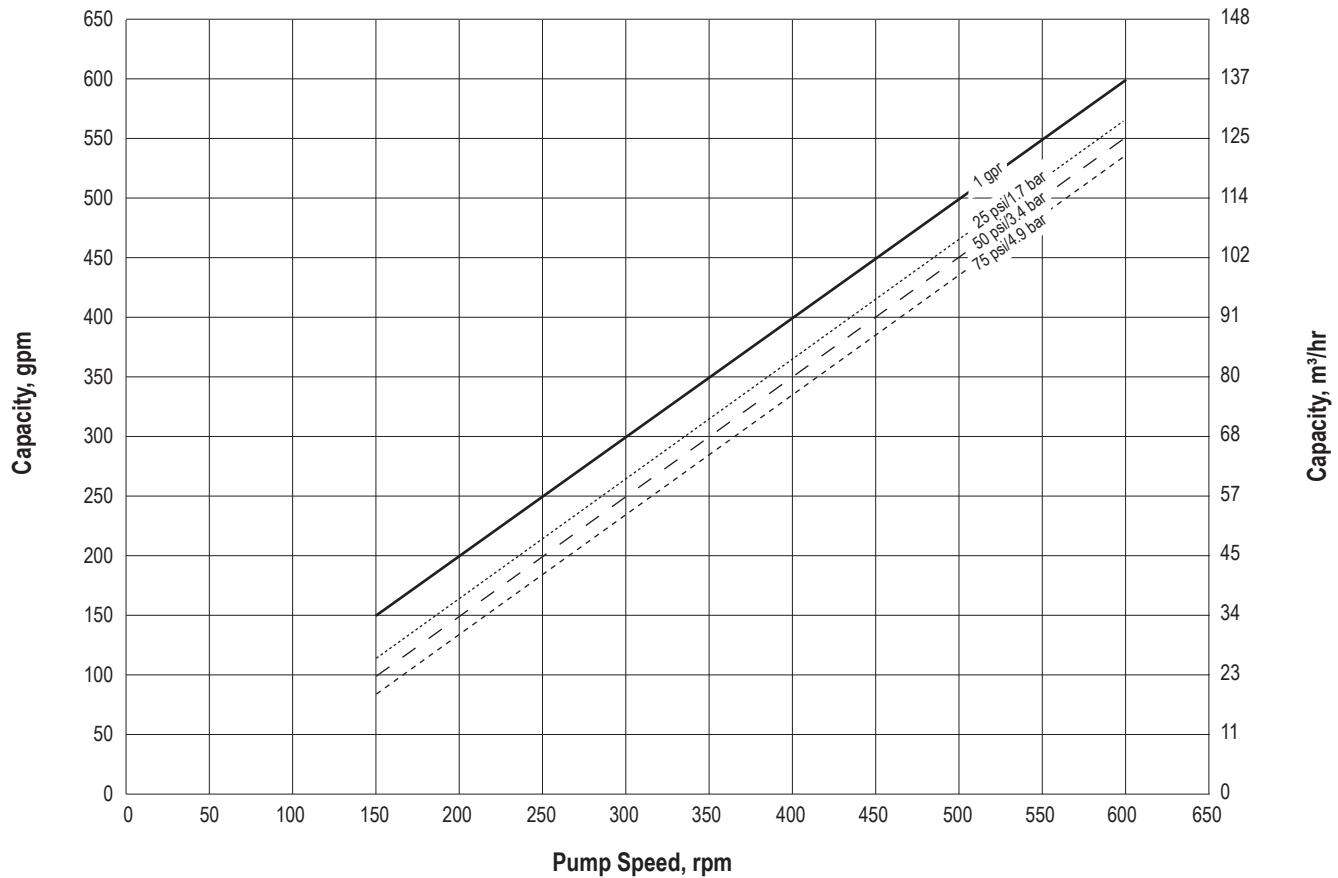
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**M100 CURVES**

**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**

