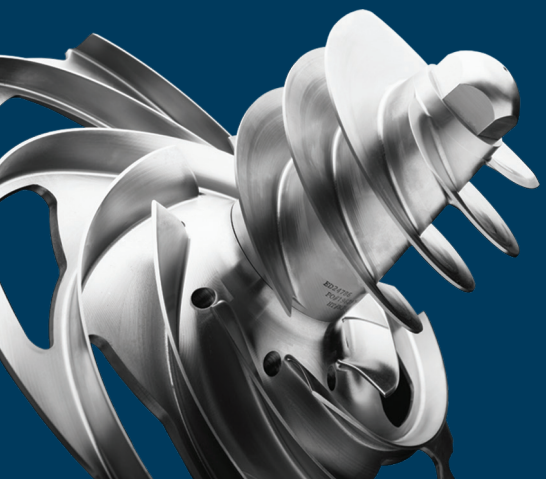
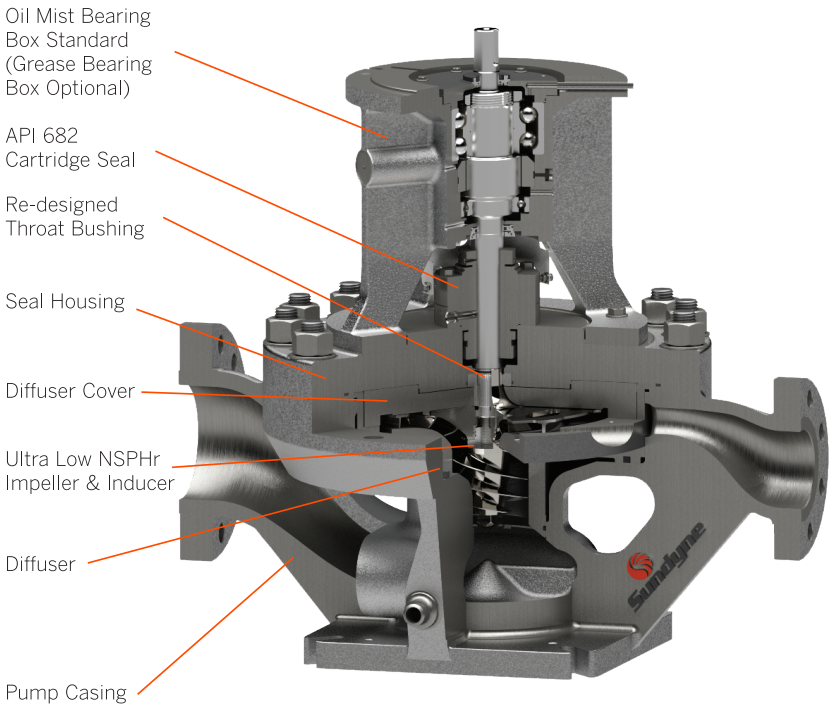
API 610 Type OH3 Direct-Drive Vertical Inline Centrifugal Pump

Ultra-low NPSHr <3m (10 ft) up-and-down the Curve Without the Risk of Cavitation

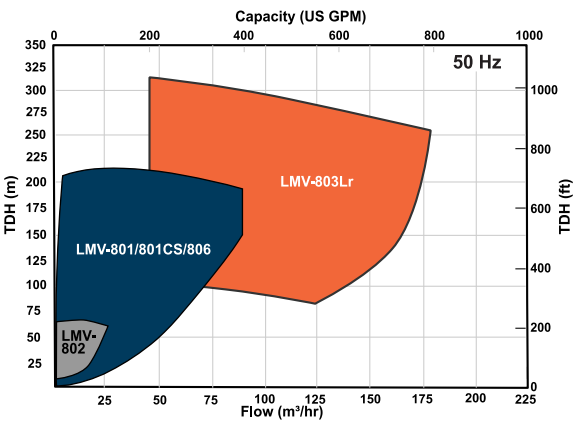
The API 610 type OH3 LMV 803Lr is a direct-drive, heavy-duty, vertical inline centrifugal pump. It combines Sundyne's proven inducer technology and backswept impeller designs to reach unparalleled NPSHr <3m (10 ft) up-and-down the curve.



Sundyne LMV 803Lr, API 610 OH3



LMV 803Lr



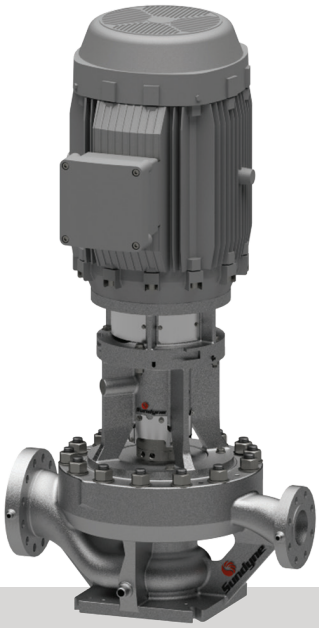
Recent upgrades, specifically designed for the Hydrocarbon Processing Industry include:

- Enhanced throat bushing improving seal performance in light hydrocarbon services
- An Oil Mist Bearing Box with robust loading capabilities and maximum motor options is standard. Grease Bearing Box is also available.
- Updated cryogenic design for NGL recovery, ethane, LNG production, and storage
- Expanded hydraulic range with ultra-low NPSHr meeting a wider range of process parameters while delivering ultra-low NPSHr up-and-down the curve

The LMV 803Lr is ideally suited for low NPSHr processes that require booster pumps, LNG applications or downstream refining applications. The LMV 803Lr is also perfect for "anes and enes" hydrocarbon applications.

Minimal Installation & Maintenance Costs

Sundyne's most rugged LMV variant to date, the LMV 803Lr brings a compact footprint, uptime reliability and optimized efficiency to high flow, low NPSHa applications. The footprint of the LMV 803Lr is just 25-percent as large as competitive horizontal pumps.



Pump Runs at Grade Level

In many instances, a crane is not required to install and maintain the pump because the LMV 803Lr can be installed at grade level, eliminating the need for a sump pit or elevated tower skirt. The ability to attain NPSHr without lift vessels reduces installation costs by tens-of-thousands-of-dollars, while greatly minimizing and simplifying maintenance over the life of the pump.

Typical Applications

- Transfer
- Recycle
- Bottoms
- Pipeline boost
- Boiler Feed Water
- Condensate
- Fuel Feed
- Seal Water
- Inorganic Acids
- High Pressure Wash
- Cryogenic Services
- Offshore Platform Services
- Charge / Reactor Feed

50 Hz Specifications

Heads to	314m
Flows to	182 m^3/hr
Standards	API 610 OH3, ISO 13079, ASME
Maximum Motor Power	298 kW
Temperature Range	-129 to 204°C
Maximum Allowable Working Pressure	70 kg/cm^2
Maximum Suction Pressure	28 kg/cm^2
Maximum Viscosity	750 cp
Solids Range	0.381mm, 400 microns
Mounting Configuration	Vertical
Seal Configurations	Single, Double, Tandem, API 682 Cartridge
Available Inducer	Standard
Available Flanges	6" 600# Inlet, 4" 600# Discharge
Suction and Discharge Size	6" x 4"
API Plan	11, 13, 14, 31, 52, 53, 54
Number of Stages	1
Speed Range	1780 rpm/3550 rpm/<3900rpm (VSD)
Materials of Construction	Stainless Steel
Bearing Type	Ball Bearings
Hydrotest Pressure	105 kg/cm^2
Pump Case Corrosion Allowance	3.175mm

Questions?
Call us today at
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Sundyne

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