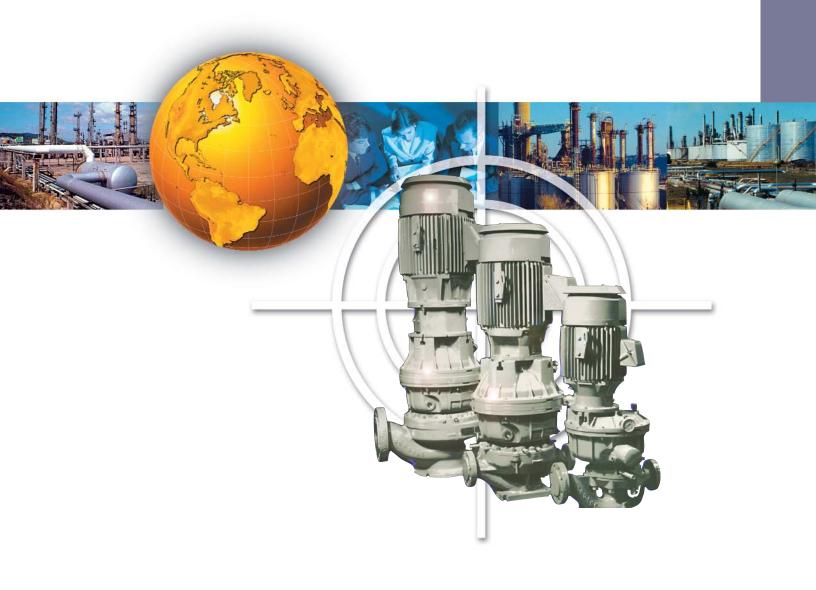
SUNDYNE®

Single Stage Integrally Geared API Pumps





Applications_

Petrochemicals and Petroleum Refining

Charging transfer • Reactor feed • Recycle • Make-up • Bottoming • Pipelines

Power Generation

Oil fired boilers in primary feed and constant differential services • Boiler feed, desuperheating and condensate services • Fuel feed pumps

Inorganic Chemicals

Inorganic acids • High pressure wash • Boiler feed, condensate

Paper Processing

Washdown and cleaning services • High pressure shower operations • Boiler feed and desuperheating services • Mechanical atomization of spent sulfite liquor

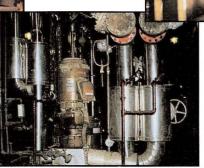
Food Processing, Mining, Steel, Spray, Drying Petroleum Production Seal water, boiler feed, condensate

High pressure systems

Vegetable oils • Reverse Osmosis • Cryogenic services • Steel mill descaling • Offshore platform services • Oil field well injection



LMV-311 on 1000 lb. suction pressure hydrocarbon service with auxiliary lube oil pump and air cooled heat exchanger



High temperature LMV-311 installation (temperatures to 650°F)



Full emission BMP-338 (500 gpm at 1000 feet) hydrocarbon bottoms pump

Sundyne Customer Support

Expedite Program
 Four day delivery on most standard units

Repair Kits
 Customized o-ring seal overhaul and seal replacement kits

Spare Parts
 Emergency spares available from the factory or authorized overhaul and repair

centers

Conversion Program Unit performance changes via unique part interchangeability

Gearbox Exchanges
 Full warranty rebuilt gearbox available in exchange for used one

Video Tape Training
 Video tapes are available for in-house training

Service Schools
 Free factory maintenance and operation training. On-site training also available

On-Site Service Professional service engineers available for start-up and consultations

Overhaul and Repair
 Full warranty units at a fraction of new cost

Innovators in Pump Technology

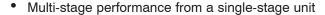


The Sundyne direct drive pumps feature a single-stage centrifugal design for reliable service in API-610 and general industrial applications. These pumps are computer optimized to fit your exact design requirements.

The Sundyne diffuser design allows for continuous duty at the design flow and at low flows, and permits full curve protection using minimum driver sizes. Open impeller design

eliminates efficiency degradation and frequent adjustments. Installation and maintenance is simple and straightforward. Standard 8-12 week deliveries can often be expedited to 4 or 5 days. Let us show you more!

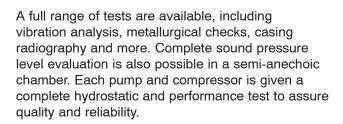




- Small footprint
- Simple design
- Standard or engineered options
- World-wide support

Sundyne Corporation, a subsidiary of Hamilton Sundstrand Corporation, is a leading high technology corporation having a reputation for excellence in both the aerospace and commercial industries.

Sundyne Corporation traces its origin to Sundstrand's Aviation Division, when this aerospace group was contracted by Boeing Aircraft to build a high pressure water injection pump to increase jet engine thrust during take-off. It was from this unique high speed, single-stage centrifugal pump that Sundstrand Fluid Handling (now Sundyne Corporation) got its start. In 1962, while working in cooperation with a major Gulf Coast Chemical Company, a derivative of this design was introduced to the hydrocarbon processing industry.

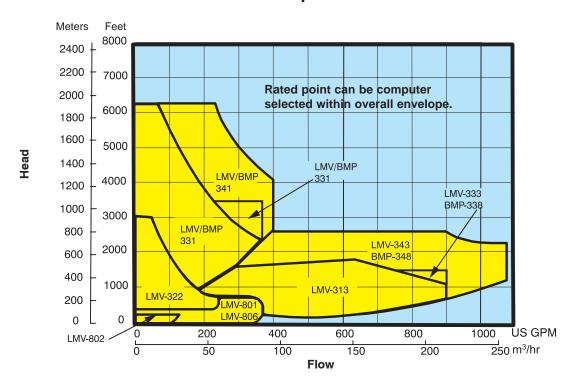


We remain committed to maintaining our technological leadership as a supplier of pumps and compressors. We are dedicated to providing reliable, economical units delivered on time, as well as after-service support to keep you on line.

Sundyne Technology Does Make A Difference!

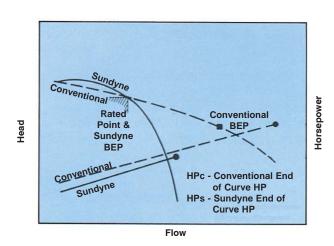


Performance Envelope LMV/BMP Series



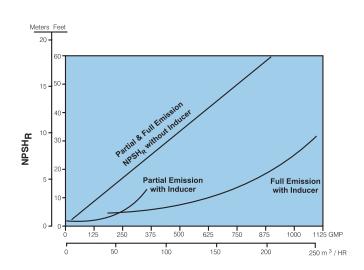
Based on Specific Gravity of 0.5

Computer Optimized Hydraulics Sundyne Custom Tailored Hydraulics



Unlike conventional multi-stage pumps, Sundyne computer tailored hydraulics puts the B.E.P. (best efficiency point) at the rated point, where you want it. This results in optimum efficiency, minimum recirculation and minimum vibration. An added benefit is reduced end-of-curve horsepower, allowing reduced driver sizing.

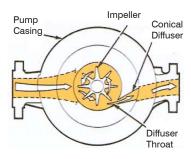
NPSH Characteristics



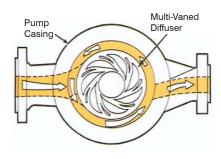
Demanding NPSH characteristics can result in the need for costly design requirements, such as elevated suction vessels and boost pump. Sundyne inducer option reduces considerably, and often eliminates these expenses.

Hydraulic Optimization

Sundyne's unique design offers the ability to optimize efficiency, curve shape, NPSH, runout horse-power and radial loading to provide economical, reliable operation for your conditions of service through various combinations of impeller, diffuser, and inducer geometry.



Partial Emission...delivers optimum efficiency at high head, low flow. For a given speed and diameter, the open radial vane impeller generates a higher head than a backward swept impeller. A single divergent conical diffuser is sized to control the maximum flow rate and efficiently recover velocity head developed by the impeller. Pump efficiency is not affected by impeller axial clearances.



Full Emission...Traditionally designed pump hydraulics combined with Sundyne's reliable high speed gearbox maintains single-stage simplicity beyond the region of partial emission. Hydraulics are optimized with a double volute diffuser. An end suction, top discharge flange orientation is available to meet customer API desires.



Diffuser Optimization

- Concentric bowl or single emission for low flow high head
- Double log spiral for balanced radial loads at higher horsepower
- Full volute single emission for higher efficiency at higher specific speeds (N_S)
- Dual volute, full emission for higher flows and minimum radial loads



Tailored Inducers

- Cylindrical for low suction specific speeds
- Tapered for higher suction specific speeds



Impeller Configurations

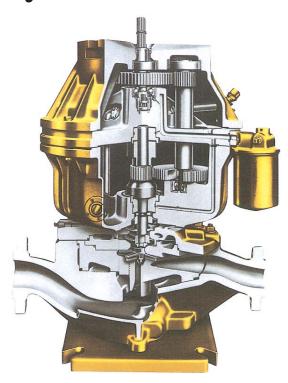
- 8 bladed open radial impeller for low specific speed (N_S)
- 24 blade high solidity impeller for rising to shut off curves
- Closed impeller for optimum efficiency at higher flow rates



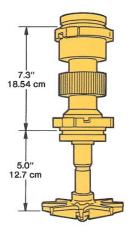
Full Emission Sealing Ring

- Axial sealing of closed impellers via a patented axial sealing ring, rather than conventional wear rings
- Pump does not suffer performance change due to "wear ring" wear because no parts are in contact with each other
- Small axial clearances are set at assembly
- Large radial clearances are machined in the impeller and inducer housing

Sundyne LMV-Series Pump Advantages.



High-speed shaft assembly is designed for minimum bearing span to overhang ratio for reduced radial loading and low vibration.





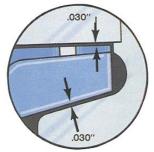
Optional inducer added at the impeller eye reduces NPSH requirements up to 70%.

Mechanical seals standard. Seal housing machined to accept all seal configurations and auxiliary seal systems.

Casing available in all machinable alloys. Separate diffuser insert allows maximum interchangeability.

Advanced design high-speed thrust bearings capable of suction pressures to 1000 psig.

Gearbox features internal pressurized lubrication system.



Generous Clearances

Gearbox

Feature

- 1. Reliable proven gearbox
- 2. Excellence in design, manufacturing, and quality
- 3. Output shaft supported by plain or tilt pad journal bearings
- 4. High speed shaft assembly designed for minimum bearing span to overhang ratio (L/D)
- 5. Self-contained lube system

6. Gearbox Exchange Program

Benefit

- 1. Over 15,000 units installed since 1962 with outstanding service
- 2. AGMA Class 11 Gears
 - Wide range of ratios enabling impeller speed to be matched to process requirements
- 3. Stable rotordynamics
- 4. Reduced radial loading
 - · Low vibration
- 5. Reliable, trouble-free operation is obtained from the integral lubrication system which provides controlled pressurized oil flow to the bearings and gears. The lubrication system includes a wet sump, internal positive displacement pump, which is driven by the low speed shaft and an integral oil filter. Additional items such as auxiliary pre-lube oil pump (required on some configurations), heat exchanger (water or air), pressure/temperature switches, vibration detection system, etc. are also available.
- 6. Simplifies maintenance
 - · Minimizes downtime
 - Allows purchasing and maintenance to be used more productively

Pump

	FEATURE	BENEFIT					
1.	Single Stage	1. • Multi-stage performance with single-stage simplicity• Compact size• Easily maintained					
2.	Custom Hydraulics	 2. • Computer optimized hardware to fit the exact design requirements • Lower end of curve horsepower requirements • Maximizes efficiency • Minimizes radial loading 					
3.	Fewer Wetted Parts	3. • Minimizes costly special metallurgy					
4.	Simple Seal Housing	 4. • One seal housing accepts single, double, or tandem seal arrangements • Easily converted in the field 					
5.	Generous Clearances	 5. • 0.030" (0.76mm) nominal clearances eliminates need for impeller casing wear rings • Fewer wearing parts • No performance degradation, maintains as-built efficiency • Dry running capability, can handle process upsets with double seals • No mechanical adjustment required 					
6.	Stable Performance	6. • Z-series hardware provides rising curve to shut-off• Minimum flows to 35% of B.E.P.					
7.	State of Art Inducers	 7. • Superior NPSH_R Performance • Suction tuned design for cavitation free operation • High suction specific speed capability 					
8.	Replaceable Diffusers (Except LMV-322)	8. • Allows simple field conversions for process changes					
9.	Heavy Duty Casing	9. • 600# flanges standard (900# flanges available on LMV-311 and 331)• Suction pressures to 1000 psig					
10	Axial Seal (LMV-313/333 and BMP-338 only)	 10. • Patented non-contact axial seal minimizes leakage while providing large radial clearances • Withstands temporary loss of suction without seizing 					
11.	Internal Centrifugal Separator	 11. • Available on most models • Integral to pump case for simplicity • Eliminates external piping • Provides clean flush to process seal for longer life 					
12.	Installation Economy	12. • Most models available either vertical or horizontal mounted to fit plant construction requirements					

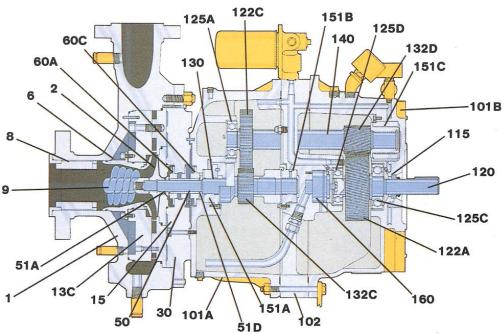
Materials of Construction *

Item No.	Part	All Carbon Steel (CS) (S-5)**	Carbon Steel 316 SS Fitted ¹ (S-6+)**	All 316 Stainless (A-8)**	Titanium or Sunmet C ²	410SS LMV-322 Only (C-6)**
1	Pump Casing	CS	CS	316 SS	T/Sun C	410 SS
2	Impeller	316 SS	316 SS	316 SS	T/Sun C	316 SS
3	Impeller Bolt	316 SS	316 SS	316 SS	T/Sun C	316 SS
5	Impeller Tab Washer	316 SS	316 SS	316 SS	T/Sun C	316 SS
6	Inducer Housing ³	CS	316 SS	316 SS	T/Sun C	N/A
8	Back Flow Control (Optional) ⁶	CS	CS	316 SS	T/Sun C	N/A
9	Inducer	316 SS	316 SS	316 SS	T/Sun C	316 SS
13A	Diffuser (Partial Emission)	CS	316 SS	316 SS	T/Sun C	N/A
13B	Diffuser (Double Volute)	CS	316 SS	316 SS	T/Sun C	N/A
15	Diffuser Cover	CS	316 SS	316 SS	T/Sun C	N/A
19A	Seal Retainer Spacer	CS	N/A	316 SS	T/Sun C	410 SS
	· ·		•		•	
21B	Throttle Bushing	316/Teflon ⁴	316/Teflon ⁴	316/Teflon ⁴	T/Sun C	316/Teflon ⁴
30	Seal Housing	CS	CS	316 SS	T/Sun C	410 SS
50	Shaft Sleeve	316 SS	316 SS	316 SS	T/Sun C	316 SS
51A	Seal Rotating Face (Pump)	Tungsten Carbide 7	Tungsten Carbide 7	Tungsten Carbide 7	Tungsten Carbide 7	Tungsten Carbide ⁷
51D	Seal Rotating Face (Gearbox)	Tungsten Carbide ⁷	Tungsten Carbide ⁷	Tungsten Carbide ⁷	Tungsten Carbide ⁷	Tungsten Carbide ⁷
52	Seal Spacer ⁵	CS	N/A	316 SS	T/Sun C	410 SS
60A	Mechanical Seal (Pump)	Carbon	Carbon	Carbon	Carbon	Carbon
60C	Mechanical Seal (Gearbox)	Carbon	Carbon	Carbon	Carbon	Carbon
90	Separator Orifice	316 SS	316 SS	316 SS	T/Sun C	316 SS
91	Separator Fitting	316 SS	316 SS	316 SS	T/Sun C	316 SS
101A	Gearbox Housing (Output)	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
101B	Gearbox Housing (Input)	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
102	Bearing Plate	Aluminum	Aluminum	Aluminum	Aluminum	N/A
110	Interconnecting Shaft	AISI 4140	AISI 4140	AISI 4140	AISI 4140	AISI 4140
115	Shaft Seal	Nitrile	Nitrile	Nitrile	Nitrile	Nitrile
120	Low Speed Shaft	AISI 4140	AISI 4140	AISI 4140	AISI 4140	AISI 4140
122A/C	Spur Gear ⁸	Carburized Steel	Carburized Steel	Carburized Steel	Carburized Steel	Carburized Steel
125A/B	Idler Shaft Ball Bearing ⁹	Deep Groove/	Deep Groove/	Deep Groove/	Deep Groove/	Deep Groove/
125C/D	Input Shaft Ball Bearing	Angular Contact	Angular Contact	Angular Contact	Angular Contact	Angular Contact
130	High Speed Shaft	AISI 4140	AISI 4140	AISI 4140	AISI 4140	AISI 4140
132C/D	Pinion Gear ⁸	Carburized Steel	Carburized Steel	Carburized Steel	Carburized Steel	Carburized Steel
140	Idler Shaft	AISI 4140	AISI 4140	AISI 4140	AISI 4140	AISI 4140
151A	Journal & Thrust Bearings	Solid or Tilt Pad	Solid or Tilt Pad	Solid or Tilt Pad	Solid or Tilt Pad	Solid or Tilt Pad
151B	Journal Bearings	Solid	Solid	Solid	Solid	Solid
151C	Journal Bearings	Solid	Solid	Solid	Solid	Solid
160	Internal Lube Pump	Gear Pump	Gear Pump	Gear Pump	Gear Pump	Gear Pump

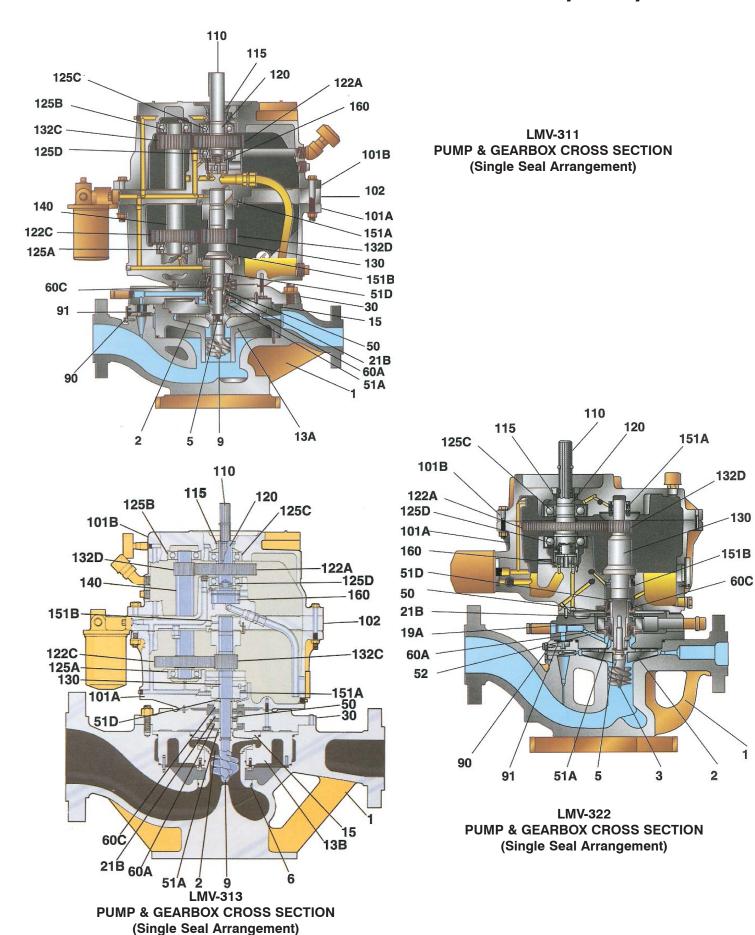
- 1. Not available with LMV-322
- 2. ASTM A494 Grade CW7M and is equivalent to Hastelloy C
- 3. Full emission only
- 4. Registered Trademark of E. I. de Pont de Nemours
- 5. LMV-322 only

- 6. BMP-338 only
- 7. Other options available
- 8. Helical upper mesh on 400 hp box
- 9. Journal upper bearings on 400 hp box
- Special Metallurgies: All Machineable
- alloys are available API equivalent
- + 316 SS vs 12% chrome

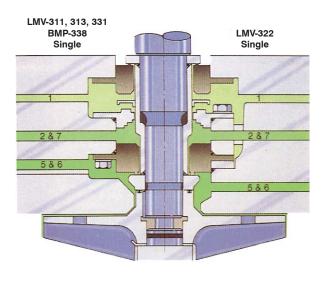
BMP-338.

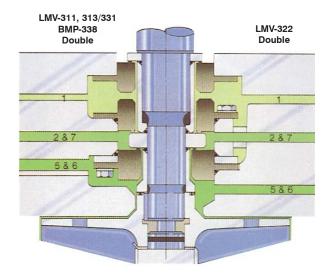


Pump & Gearbox Cross Section (Single Seal Arrangement)



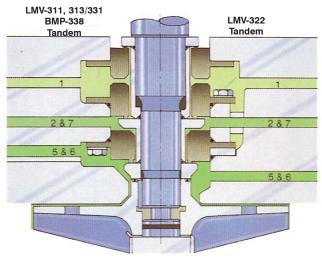
Mechanical Seals.





SINGLE SEAL

Standard seal used in most applications - for non-abrasive or non-hazardous liquid. Bellows seals are also available for higher temperatures and abrasive liquids



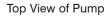
DOUBLE SEAL

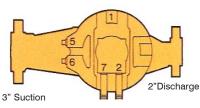
Recommended when the pumped liquid contains abrasives, leakage could be hazardous, or when the pump is likely to run dry.

TANDEM SEAL

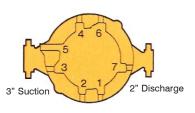
Used to accommodate quenching, automatic shutdown systems, and high pressure services. With no requirement for a buffer liquid, a film-riding gas seal may be placed in the upper position, thereby providing a secondary seal backup in event of main seal failure.

Mechanical Seals.





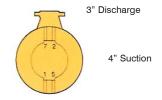
LMV-322



LMV-311/331



LMV-313/333



BMP-338

Port Description

- Seal Drain, Gearbox Oil and Process Fluid; Always Open to Atmosphere
- Seal Drain (Single Seal) or Buffer Fluid in (Double or Tandem Seal)
- 5 Seal Flush or Case Vent
- 6 Seal Flush or Case Vent
- Seal Drain (Single Seal) or Buffer Fluid
 Out (Double or Tandem Seal)

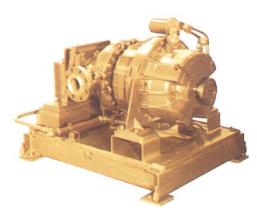
Port Description

- Seal Drain (open to atmosphere)
- Seal Drain (Single Seal) or Buffer
 Fluid Out (Double or Tandem Seal)
- 3 Cooling In (Normally Plugged)
- Cooling Out (Normally Plugged)
 Seal Flush and/or Vent
- 6 Seal Flush and/or Vent
- Seal Drain (Single Seal) or Buffer Fluid In (Double or Tandem Seal)

Port Description

- 1 Seal Drain (open to atmosphere)
- Seal Drain (Single Seal) or Buffer Fluid Out (Double or Tandem Seal)
- 5 Seal Flush and/or Vent
- 7 Seal Drain (Single Seal) or Buffer Fluid in (Double or Tandem Seal)

Optional Features



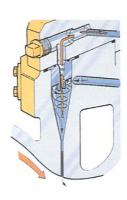
Horizontal Mount (Available on 311/331 and 338 models)



Vertical Motor Stand (Required above 3500 lb. motor weight)



API 610 & 682 specified Plan 52/53 buffer pots are readily available to support double and tandem seal configurations.



Integral Centrifugal Separator (Not available on 313/333/338)



Gearbox Heat Exchanger (Required above 9000 rpm, and/or 350°F process temperature and all full emission models)



Auxiliary Lube Oil Pump (Required on LMV-331, all full emission units, all horizontal units, or units with gearbox inline heater, air cooled heat exchanger or tilt pad bearings)

Specifications ____

PUMP	LMV-322		LMV/BMI	LMV/BMP-311/331		LMV-313/333		BMP-338	
	English	Metric	English	Metric	English	Metric	English	Metric	
Maximum Working Pressure	1440 psig	101.3 kg/cm ²	2160 psig	150 kg/cm ²	1440 psig	101.3 kg/cm ²	1440 psig	101.3 kg/cm ²	
Temperature Range	-200° to 650°F	-130° to 340°C	-200° to 650°F	-130° to 340°C	-200° to 650°F	-130° to 340°C	-200° to 650°F	-130° to 340°C	
Hydro Test Pressure		1.5 Times Maximum Working Pressure							
Minimum Casing Thickness	0.625"	15.9 mm	0.625"	15.9 mm	0.75"	19.0 mm	0.75"	19.0 mm	
Corrosion Allowance	0.125"	3.2 mm	0.125"	3.2 mm	0.125"	3.2 mm	0.125"	3.2 mm	
Impeller Clearance	0.030" to	0.76 mm to	0.030" to	0.76 mm to	0.030" to	0.76 mm to	0.030" to	0.76 mm to	
	0.040"	1.02 mm	0.040"	1.02 mm	0.040"	1.02 mm	0.040"	1.02mm	
Shaft Diameter at Impeller	1"	25.4 mm	1"	25.4mm	1"	25.4 mm	1"	25.4 mm	
Mechanical Seal Sizes:									
Lower Seal	1.25"	31.8 mm	1.25"	31.8 mm	1.50"	38.1 mm	1.50"	38.1 mm	
Upper Seal (Optional)	1.50"	38.1 mm	1.50"	38.1 mm	1.50"	38.1 mm	1.50"	38.1 mm	
Mounting	Vertical	Vertical	Vert./Horz.	Vert./Horz.	Vertical	Vertical	Horizontal	Horizontal	
Flanges**	600# ANSI RF	600# ANSI RF	600# ANSI RF	600# ANSI RF	600# ANSI RF	600# ANSI RF	600# ANSI RF	600# ANSI RF	
Suction	3"	76.2 mm	3"	76.2 mm	6"	152.4 mm	4"	101.6 mm	
Discharge	2"	50.8 mm	2"	50.8 mm	4"	101.6 mm	3"	76.2 mm	
GEARBOX	50 hp	37 kw	200/400 hp	148/296 kw	200/400 hp	148/296 kw	400 hp	296 kw	
Temperature:	•			·	•		•		
Minimum Starting	0°F	-18° C	0°F	-18°C	0°F	-18°C	0°F	-18°C	
Operating	140° to 180°F	60° to 82°C	140° to 180°F	60° to 82°C	140° to 180°F	60° to 82°C	140° to 180°F	60° to 82°C	
Lubricant		ISO VG 32 Turbine Oil							
Sump Capacity	4.5 quarts	4.3 liters	7 quarts	6.6 liters	7 quarts	6.6 liters	7 quarts	6.6 liters	
Lube System	Pressurized	Pressurized	Pressurized	Pressurized	Pressurized	Pressurized	Pressurized	Pressurized	
Gearbox Seal Size	1.5"	38.1 mm	1.5"	38.1 mm	1.5"	38.1 mm	1.5"	38.1 mm	
Bearings:*	Ball		Ball		Ball		Ball		
Input Idler Shaft			311 - Ball	331 - Sleeve	313 - Ball	333 - Sleeve	Sleeve		
Output Shaft*	Journal	Journal	Journal	Journal	Journal	Journal	Journal	Journal	
Gears		Hardene	d & Precision Gro	und, Spur on LM\	/-322/311/313				
Helical and Spur on LMV-313/333/& BMP-338									
Coupling			Spline or Star	ndard Flexible			Spacer	Spacer	

- Tilting Pad Thrust and Radial Bearings available as required except for LMV-322.
- 900# ANSI RTJ optional on LMV/BMP 311/331 only.
- Lower starting temperatures are possible with optional Lube Oil Heater

API PLANS - Sundyne can provide most API-610 piping plans.

Plan 11, 12, 21, & 23
 Plan 52, 53, & 54

• Plan 13

• Plan 61 & 62

Plan 31, 32, and 41

• Plan J

METALLURGIES - All machineable alloys are available, for example:

- Carbon Steel
- · Sunmet B*
- 316SS
- Sunmet C**
- 410 SS (LMV-322 only) Monel
- Alloy 20
- Titanium
- * Sunmet B ASTM A494, Grade N-7M and is equivalent to Hastelloy B
- ** Sunmet C ASTMA 494, Grade CW2M and is equivalent to Hastelloy C

HYDRAULIC HARDWARE -

- · Z series, 24 blade high solidity impeller for rising curves (LMV-322, 311, 331)
- · Concentric Bowl, 8 blade open radial impeller for low specific speed (NS).
- · Closed impeller for optimum efficiency at higher flow rates (LMV-313, 333, & BMP-338 only)

INDUCER - Reduces NPSHR required, thereby eliminating cavitation.

900 LB. RF OR RJ FLANGES - For heavy duty service requirements.

TESTING - Sundyne can perform many special tests to meet your needs, for example:

- Performance Test standard
- · Pump Case Hydrostatic Test standard
- · NPSH Suppression Test optional
- · Radiography Inspection optional
- · Liquid Penetrant Inspection optional
- · Mill Test Reports or Material Certificates optional
- · Magnetic Particle Inspection optional
- · Hardness Testing optional

STATIC SEALS - Available in a wide variety of compounds, for example:

• Buna

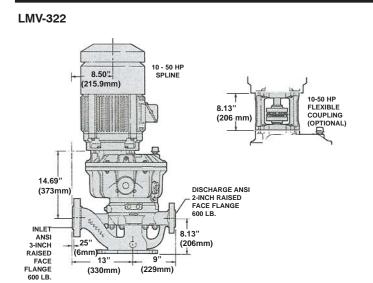
- · Carbon Graphite
- Fluorocarbon
- Kalrez[®]
- Ethylene Propylene
- · Silicone

SEAL ARRANGEMENTS - Three configurations to meet your needs.

- Single
- Double
- Tandem

Engineered seals are also available.

Dimensions



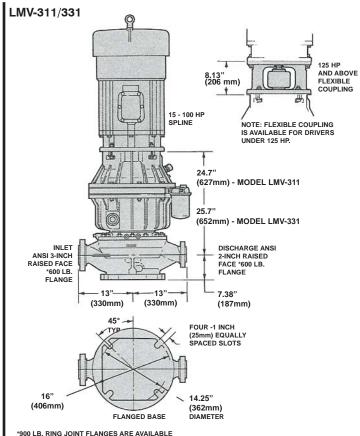
FLANGED BASE 45° FOUR -1 INCH (25 mm) EQUALLY SPACED SLOTS

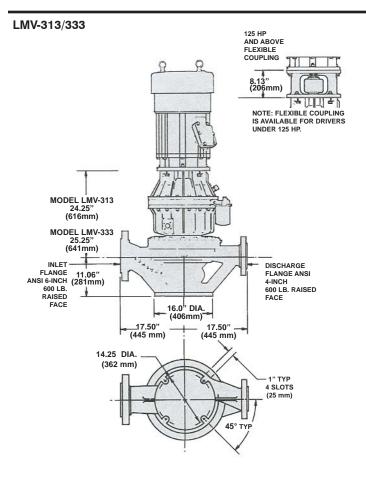
16"

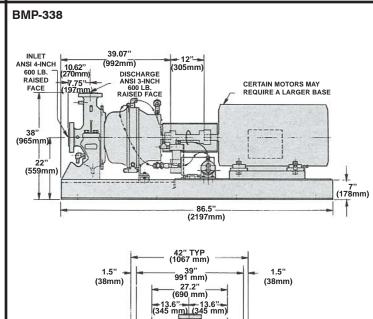
(406mm)

14.25"

(362mm) DIAMETER

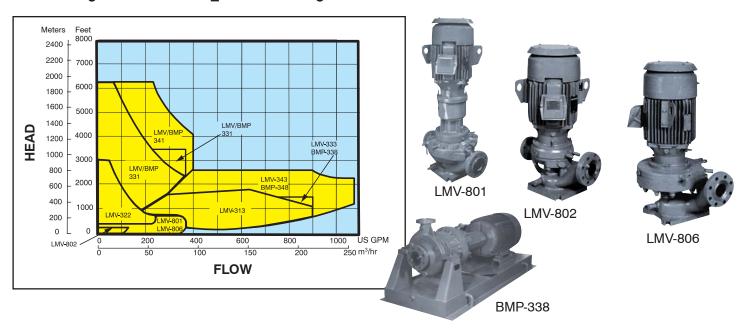






21" – (533 mm)

Sundyne Pump Family_



Pump					Max. Motor	Max. Case Working	Max. Suction	Temperature
Series	HZ	Flows To	Heads To	RPM	Power	Pressure	Pressure	Range
LMV-802	60	150 gpm	210 feet	1750 and 3550	50 hp	1440 psig	600 psig	-200° to 650°F
	50	34 m ³ /hr	64 meters	1450 and 2960	37 kW	101 barg	42 barg	-130° to 340°C
LMV-806	60	380 gpm	760 feet	1750 and 3550	75 hp	710 psig	557 psig	-40° to 350°F
	50	86 m ³ /hr	232 meters	1450 and 2960	55 kW	50 barg	39 barg	-40° to 175°C
LMV-801	60	380 gpm	720 feet	1750 and 3550	75 hp	2160 psig	1000 psig	-200° to 650°F
	50	86 m ³ /hr	219 meters	1450 and 2960	55 kW	152 barg	70 barg	-130° to 340°C
LMV-322	60	230 gpm	3000 feet	6000 to 17,100	50 hp	1440 psig	450 psig	-200° to 650°F
	50	52 m ³ /hr	915 meters	5000 to 14,200	37 kW	101 barg	32 barg	-130° to 340°C
LMV/BMP-311	60	400 gpm	6300 feet	5800 to 24,700	200hp	2160 psig	1000 psig	-200° to 650°F
	50	91 m ³ /hr	1921 meters	4800 to 23,700	150 kW	152 barg	70 barg	-130° to 340°C
LMV/BMP-331	60	400 gpm	6300 feet	10,100 to 24,900	350 hp	2160 psig	1000 psig	-200° to 650°F
	50	91 m ³ /hr	1921 meters	9400 to 23,800	250 kW	152 barg	70 barg	-130° to 340°C
LMV/BMP-341	60	400 gpm	6300 feet	9916 to 24,700	400 hp	2160 psig	1000 psig	-200° to 650°F
	50	91m ³ /hr	1921 meters	9853 to 25,000	315 kW	152 barg	70 barg	-130° to 340°C
LMV/313	60	1040 gpm	1790 feet	5800 to 12,200	200 hp	1440 psig	500 psig	-200° to 650°F
	50	236 m ³ /hr	546 meters	4800 to 12,800	150 kW	101 barg	35 barg	-130° to 340°C
LMV-333	60	1000 gpm	3000 feet	9500 to 14,700	350 hp	1440 psig	500 psig	-200° to 650°F
	50	227 m ³ /hr	915 meters	8800 to 12,900	250 kW	101 barg	35 barg	-130° to 340°C
LMV-343	60	1000 gpm	3000 feet	8445 to 16,450	400 hp	1440 psig	500 psig	-200° to 650°F
	50	227 m ³ /hr	915 meters	8347 to 16,236	315 kW	101 barg	35 barg	-130° to 340°C
BMP-338	60	1100 gpm	2800 feet	9500 to 14,700	350 hp	1440 psig	500 psig	-200° to 650°F
	50	250 m ³ /hr	854 meters	8800 to 12,900	250 kW	101 barg	35 barg	-130° to 340°C
BMP-348	60	1100 gpm	2800 feet	8445 to 16,450	400 hp	1440 psig	500 psig	-200° to 650°F
	50	250 m ³ /hr	854 meters	8347 to 16,236	315 kW	101 barg	35 barg	-130° to 340°C

Other Products

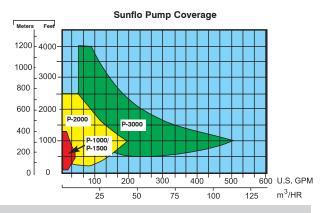
Sunflo

High pressure medium duty pumps



P-1000, P-1500, P-2000, P-3000

Non-API high performance, single stage pumps



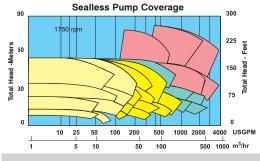
Sealless

The world's most comprehensive sealless pump range

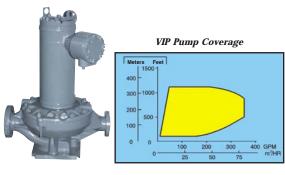


Sundyne Canned Motor Pump (SCMP)









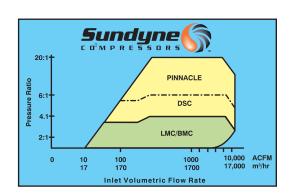
VIP-801 API 610/685 Canned Motor Pump

Compressors

The low flow centrifugal compressor



Sundyne Compressors



Sanitary-Duty

An innovative line of sanitary positive displacement pumps

MASO/Sine Pump



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Sundyne Corporation • Arvada, Colorado, USA • +1-303-425-0800 • FAX: +1-303-425-0896 • www.sundyne.com Sundyne Europe • Longvic Cedex, France • +33-380-383300 • FAX: +33-380-383371 • e-mail: european-sales@sundyne.com