**CUSTOMER INFORMATION**

**INQUIRY/P.O. NO.**: 

**QUOTE NO.**: 

**ITEM NO.**: 

**SALES OFFICE**: 

**DATE**: 

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**PRODUCT**

**PR21AB02**

**DESCRIPTION**

**LUBE OIL**

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**MATERIAL**

**LMV322**

**GEARBOX HX, API PLAN 21(TUBING), VENT & DRAIN**

**QTY**: 1

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**DIMENSIONS IN INCHES (mm)**

**WEIGHTS:**
- **PUMP**: 260 LBS/118 KG
- **GEARBOX**: 110 LBS/50 KG
- **MOTOR**: 100 LBS/ 45 KG

**TOTAL**

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**NOTE:** THIS PROPOSAL DWG IS INTENDED FOR USE OF EQUIPMENT AS SPECIFIED IN "TITLE BLOCK" ONLY. OTHER EQUIPMENT SUCH AS MOTOR, GAUGES AND MATERIAL WILL BE SPECIFIED AND DIMENSIONED AS REQUIRED ON THE CUSTOMER OUTLINE DRAWING.

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**FORCES = LBF**

**MOMENTS = FT-LBF**

<table>
<thead>
<tr>
<th>FLANGES</th>
<th>$F_x$</th>
<th>$F_y$</th>
<th>$F_z$</th>
<th>$M_x$</th>
<th>$M_y$</th>
<th>$M_z$</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUCTION 3&quot;</td>
<td>480</td>
<td>600</td>
<td>400</td>
<td>1400</td>
<td>700</td>
<td>1080</td>
</tr>
<tr>
<td>DISCHARGE 2&quot;</td>
<td>320</td>
<td>400</td>
<td>260</td>
<td>680</td>
<td>340</td>
<td>520</td>
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</tbody>
</table>

**FORCES = NEWTON**

**MOMENTS = NEWTON METER**

<table>
<thead>
<tr>
<th>FLANGES</th>
<th>$F_x$</th>
<th>$F_y$</th>
<th>$F_z$</th>
<th>$M_x$</th>
<th>$M_y$</th>
<th>$M_z$</th>
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</thead>
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<tr>
<td>SUCTION 3&quot;</td>
<td>2135</td>
<td>2689</td>
<td>1779</td>
<td>1088</td>
<td>949</td>
<td>1437</td>
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<tr>
<td>DISCHARGE 2&quot;</td>
<td>1423</td>
<td>1779</td>
<td>1157</td>
<td>922</td>
<td>461</td>
<td>705</td>
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</tbody>
</table>

**THESE VALUES DEVELOPED FROM FORCES AND MOMENTS LIMITS AS ESTABLISHED IN API 610, 8TH EDITION**

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**DESCRIPTION**

**1 ORIFICE, SINGLE STAGE**

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**SUCTION**: 3" 3135 2669 1779 1898 949 1437

**DISCHARGE**: 2" 1423 1779 1157 922 461 705

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**FLANGES**

**Fx**

**Fy**

**Fz**

**Mx**

**My**

**Mz**

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**PUMP MODELS LMV-311, 322, 331, 801, 802, 806; BMP-311, 331**

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**LIMITS AS ESTABLISHED IN API 610, 8TH EDITION**

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**REV**: 1

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**WEBSITE**: www.sundyne.com

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**ADDRESS**: 64TH AVENUE, ARVADA, COLORADO, 80007, U.S.A.
PORT LOCATIONS
(TOP VIEW)

PORT LOCATIONS
(BOTTOM VIEW)

CUSTOMER CONNECTIONS

A  PUMP SUCTION  2-600#RF FLANGE
B  PUMP DISCHARGE  2-600#RF FLANGE
C  PUMP CASE DRAIN  1-600#RF FLANGE
D  PUMP SEAL VENT  1/2"-600#RF FLANGE
E  HEAT EXCHANGER, GEARBOX COOLANT IN 1" NPT
F  HEAT EXCHANGER, GEARBOX COOLANT OUT 1" NPT
G  HEAT EXCHANGER API PLAN 21 COOLANT IN 3/4" NPT
H  HEAT EXCHANGER API PLAN 21 COOLANT OUT 3/4" NPT

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