LaBour Taber Vertical

Taber Series Vertical Sump Pumps

Heavy construction and rugged advanced design techniques throughout insure high performance and long, trouble-free service life. Vertical pumps are self-priming and self-venting. Hazards of bottom tank openings are eliminated. Space is conserved. Fugitive emissions are effectively controlled with various options and accessories.

Applications
- Sulfuric Acid
- Molten Salts
- Heat Transfer Liquids
- Molten Sulfur
- Caustic
- Drainage Sumps
- Industrial Waste Systems

Markets
- Industrial
- Petroleum
- Power
- Utility
- Pulp & Paper
- Pharmaceutical
- OEM
- Agriculture
- Chemical Process
- Food & Beverage Process
- Primary Metals
- Pollution Control

LaBour - When pump failure is not an option.
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<tbody>
<tr>
<td>31</td>
<td>Impeller</td>
<td>316SS</td>
<td>316SS</td>
<td>316L</td>
<td>304SS</td>
<td>304L</td>
<td>Elecomet K</td>
<td>A-48</td>
<td>R-55</td>
<td>Ni</td>
<td>Y-17</td>
<td>Y-30</td>
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17 Intermediate & Head Brg. Sleeve

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<th>PIECE NO.</th>
<th>PART DISCRIPTION</th>
<th>MATERIAL DESIGNATION</th>
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<td>17</td>
<td>Intermediate &amp; Head Brg. Sleeve</td>
<td>Glass Filled Teflon²</td>
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**RP**

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**NOTES:**

1. LaBour proprietary material. Materials may change without notice. Custom material combinations to suit a special application are available.
2. Registered trademark of Haynes International.
3. Registered trademark of E.I. duPont de Nemours.
4. Registered trademark of Dixon Corporation.
LaBour LHLA/LPLA

The World’s Longest Lasting Pumps...
Bar None!

Design Features and Benefits

- **Rugged vertical design**: Rugged construction provides long MTBPM and long service life.
- **Pump thrust bearing**: Since pump thrust is not carried by the motor, standard P-base motors and flexible couplings can be used.
- **Impeller adjustment above support rate**: Allows for impeller adjustment with the pump installed, reducing maintenance and adjustment time.
- **Long sleeve bearings**: Offers better support of the shaft, less shaft deflection, and longer bearing life.
- **Registered fits**: Every part location is concentric to the shaft, offering longer MTBPM and simple maintenance.
- **Fabricated support columns**: Rigid support columns with registered fits provide precise alignment of shaft and sleeve bearings for easy assembly.
- **Oversized shaft diameters**: Large shaft diameter minimizes deflection, provides longer MTBPM and better shaft/bearing stability.
- **All metal construction**: Strength and durability of a wide range of alloys to handle a wide range of liquids.
- **Strainer**: Optional for waste sumps to keep trash out of the impeller and casting.
- **Heavy duty support plates**: Thicker support plates offer a longer service life due to more stiffness and vibration damping effect.

Material Selection

- **Cast Iron**
- **316SS**
- **316L**
- **304SS**
- **304L**
- **A-48 (CD4-MCu)**
- **Elcomet K (ASTM CN-7M)**
- **R-55 (Nickel based alloy)**
- **Y-17 (Similar to Hastelloy C)**
- **Y-30 (Similar to Hastelloy B)**
- **Nickel**

*Registered trademark of Haynes International.

Standard Option

Choice of **Series 1000, 2000, or 8000 Taber Vertical Pumps**.
Optional **Duplex Construction or Jacketed Construction**.
Duplex option used where flow requirements can vary or a standby pump is required. Jacketed option allows handling liquids that solidify or become highly viscous at ambient temperatures.

**Level Controls** option where liquid levels vary, requiring starting and stopping of the pump.

**Outside Mounting** is used where it is impractical to mount the pump inside a tank, as on toxic, ultra pure and flammable liquids, or in a glass lined tank. Where intermediate bearings are used, auxiliary flush lines from the pump discharge are used to cool and lubricate the bearings.

Service and Delivery

LaBour’s investment in inventory gives you the advantage of short lead times. We can schedule your order without material delays.

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**Taber Vertical Pump Designs**

**Design 10**
The most basic design for a Taber pump with maximum unsupported shaft length and no shaft sealing required.
- No Intermediate Bearings
- No Stuffing Box
- Limited Length

**Design 20**
This Taber design includes intermediate bearings for lengths exceeding those which allow unsupported shafting.
- With Intermediate Bearings
- No Stuffing Box
- Length to 36'

**Design 30**
This Taber design includes a stuffing box, which is normally used for industrial applications to contain non-toxic fumes.
- No Intermediate Bearings
- Stuffing Box Included
- Limited Length

**Design 40**
This construction is considered the “standard” for process industries. Size of process vessels and reactors dictate longer pump settings, and safety and environmental considerations typically require a stuffing box.
- With Intermediate Bearings
- Stuffing Box Included
- Length to 36'

**Design 50**
The cantilever design has no submerged bearings. Used where it is undesirable to have any bearings in contact with liquid being pumped. The shaft is supported by two sets of bearings above the support plate.
- No Intermediate or Head Bearings
- Stuffing Box Included
- Limited Length

**Options**

- **Duplex Construction**
The duplex pump arrangement is normally furnished with level controls and alternator. Typically, this option is used where flow requirements can vary or a standby pump is required. Individual pear shaped plates, mounted on a large support plate, allow minimum use of space and simplify removal of a single pump.

- **Jacketed Construction**
This option allows handling liquids that solidify or become highly viscous at ambient temperatures. Jacketing can be installed on the support column, discharge pipe, or any combination. Typical services include molten sulfur, lead, zinc, waxes, glue, rosin, etc.

- **Level Controls**
A float switch, rod and float are typically used in sump pump applications. This is a common option where liquid levels vary, requiring starting and stopping of the pump.

- **Outside Mounting**
Outside mounting (dry pit mounting) is used where it is impractical to mount the pump inside a tank, as on toxic, ultra pure and flammable liquids, or in a glass lined tank. Where intermediate bearings are used, auxiliary flush lines from the pump discharge are used to cool and lubricate the bearings.

**Additional Options / Accessories**
- Contained Double Stuffing Box (Gas or Liquid Purged)
- Duplex Thrust Bearing
- Low-Flow Design
- External Flushing Arrangements for Shaft Bearings
- Vapor-Proof Construction
- 300# Flanges
- Cladded Support Plates (Stainless Steel, nickel, etc.)
- Suction Strainer
- Customized Support Plate
- Mechanical Seal (Liquid and/or Gas Type)
- Suction Tailpipe
- (e.g. to fix existing piping and mounting configuration)