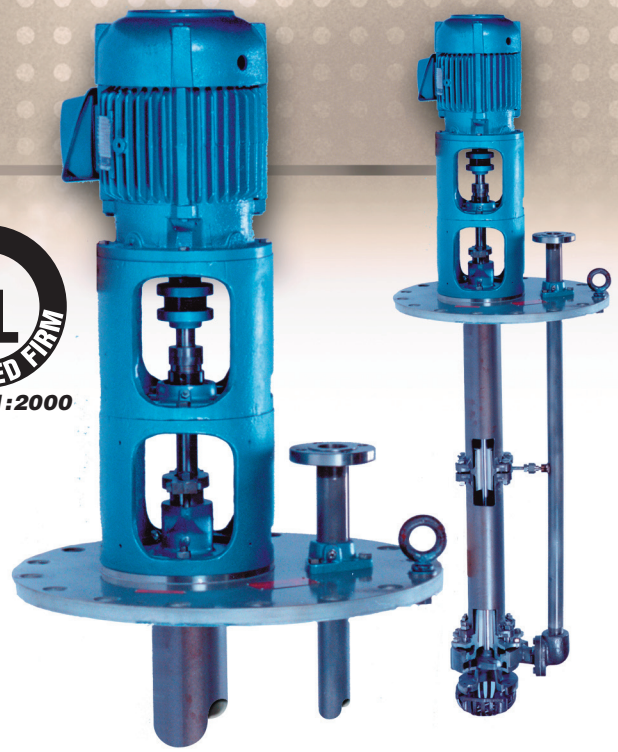
LaBour Taber

PUMPS THAT EXPERTS SELECT.

UL REGISTERED FIRM

ISO 9001:2000



LaBour Taber Vertical

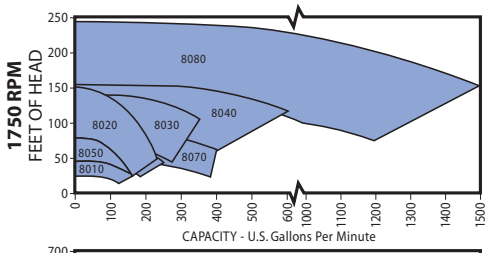
Taber Series Vertical Sump Pumps

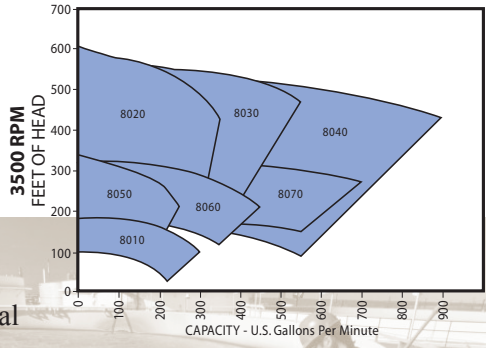
Heavy construction and rugged advanced design techniques throughout insure high performance and long, trouble-free service life. Vertical pumps are self-priming and self-venting. Hazards of bottom tank openings are eliminated. Space is conserved. Fugitive emissions are effectively controlled with various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

Taber 1000 Series

Temperature:
Up to 400º F

Suction Lift:
Up to 25 FT





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.

Standard Materials of Construction

PIECE NO.	PART DISCRIPTION	MATERIAL DESIGNATION										
		D.I./ 316SS	316SS	316L	304SS	304L	Elcomet K*	A-48*	R-55*	Ni	Y-17*	Y-30*
29	Suction Strainer	C.I.	316SS	316L	304SS	304L	Elecomet K	A-48	R-55	Ni	Y-17	Y-30
22	Casing	D.I.	316SS	316L	304SS	304L	Elecomet K	A-48	R-55	Ni	Y-17	Y-30
23	Head	D.I.	316SS	316L	304SS	304L	Elecomet K	A-48	R-55	Ni	Y-17	Y-30
31	Impeller	316SS		316L	304SS	304L	Elecomet K	A-48	R-55	Ni	Y-17	Y-30
17	Intermediate & Head Brg. Sleeve	Glass Filled Teflon[2]						Fluted Rubber	Rulon 123[3]			
RP	Retaining Pin	316SS			304SS		20SS	316SS	Hastelloy C[1]	Ni	Hastelloy C	Hastelloy B
–	Gasket - Casing	Non-Asbestos							Teflon			
–	Hardware (Wetted)	Steel	316SS		304SS		20SS	316SS	Hastelloy C	Ni	Hastelloy C	Hastelloy B
75	Support Column	Steel	316SS	316L	304SS	304L	20SS	Steel	Hastelloy C	Ni	Hastelloy C	Hastelloy B
46	Support Plate	Steel										
94A/94	Tripod - Motor/Thrust	Cast Iron										
–	Tripod Guards	30 Gauge Steel										
–	Coupling	Flexible Non-Spacer										
–	Hardware (Non-Wetted)	Steel										
112	Discharge Elbow	D.I.	316SS	316L	304SS	304L	Elcomet K	A-48	R-55	Ni	Y-17	Y-30
93	Discharge Pipe	Steel	316SS	316L	304SS	304L	20SS	Duplex Stainless	Hastelloy C	Ni	Hastelloy C	Hastelloy B
–	Discharge Flange	Steel	316SS		304SS		20SS	A-48	Hastelloy C	Ni	Hastelloy C	Hastelloy B
61	Clamp	Ductile Iron										
X	Packing - Discharge Pipe Clamp	TFE/Graphite										
33	Shaft	C.R.S.	316SS	316L	304SS	304L	20SS	Duplex Stainless	Hastelloy C22	Ni	Hastelloy C22	Hastelloy B
69	Impeller Nut	316SS			304SS		20SS	Duplex Stainless	Hastelloy C22	Ni	Hastelloy C	Hastelloy B
CP	Impeller Pin (Cotter Pin)	316SS			304SS		20SS	Duplex Stainless	Hastelloy C22	Ni	Hastelloy C	Hastelloy B
62	Impeller Key	316SS			304SS		20SS	316SS	Hastelloy C22	Ni	Hastelloy C	Hastelloy B
88	Impeller Washer	316SS			304SS		20SS	Duplex Stainless	Hastelloy C22	Ni	Hastelloy C	Hastelloy B
–	Coupling Key	Steel										
71	Thrust Bearing	Ball Bearing in Flanged Cast iron Housing (grease Lube)										
63	Stuffing Box	D.I.	316SS	316L	304SS	304L	Elcomet K	D.I.	R-55	Ni	Y-17	Y-30
21	Split Gland (2 Piece)	D.I.	316SS		304SS		Elcomet K	D.I.	R-55	Ni	Y-17	Y-30
18	Stuffing Box Sleeve	Glass Filled Teflon or Carbon Graphite										
XX	Packing - Stuffing Box	TFE/Graphite or Die Formed Graphite Rings										
–	Gasket - Stuffing Box	Non-Asbestos							Teflon			

NOTES: *LaBour proprietary material.
Materials may change without notice.
Custom material combinations to suit a special application are available.

[1] Registered trademark of Haynes International.
[2] Registered trademark of E.I duPont de Nemours.
[3] Registered trademark of Dixon Corporation.

LaBour Taber

Peerless Pump / LaBour Taber - 901 Ravenwood Drive, Selma, Alabama 36701
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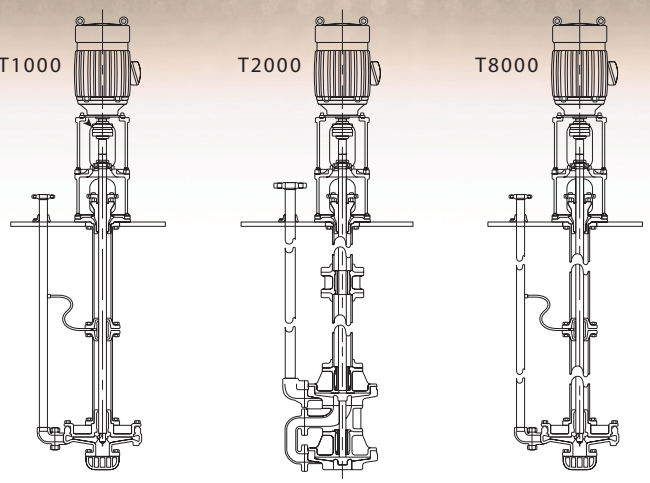
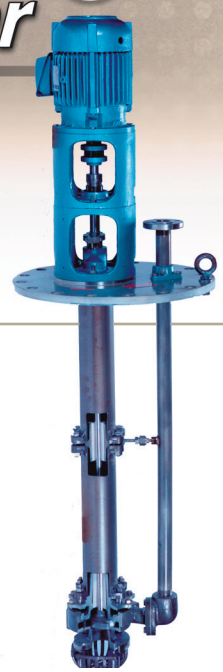
LaBour LHLA/LPLA

LaBour Taber



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 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 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
Other Alloys Available

*** 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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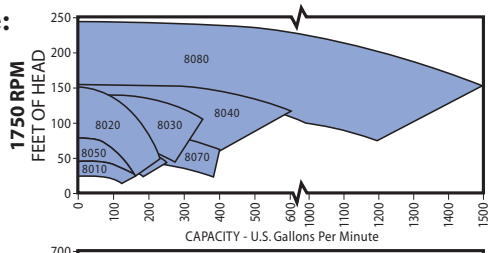

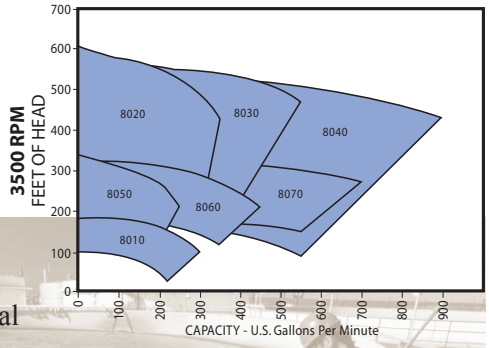

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- Molten Salts
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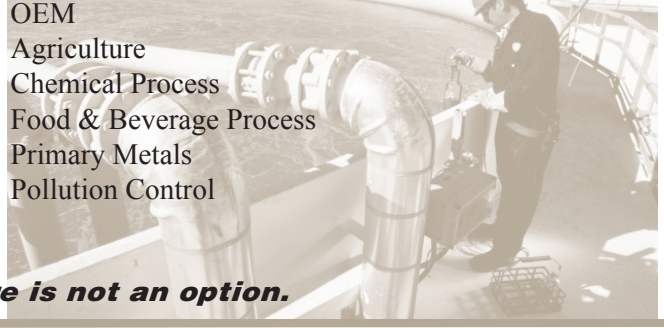
- Caustic
- Drainage Sumps
- Industrial Waste Systems

Markets

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



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Taber Vertical Pump Designs

SERIES 1000 — 2000 — 8000

SERIES 9000 / CANTILEVER

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. (A double stuffing box design is recommended for use on toxic, corrosive or noxious liquids.)

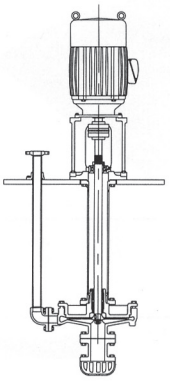
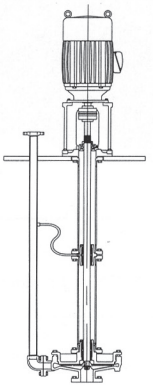
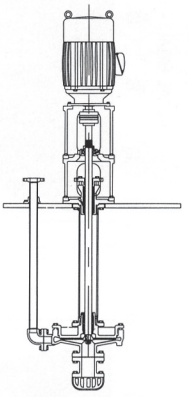
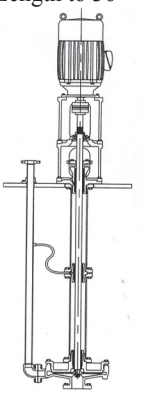
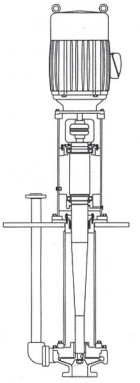
- No Intermediate Bearings
- Stuffing Box Included
- Limited Length

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.

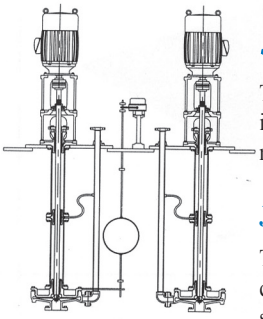
- With Intermediate Bearings
- Stuffing Box Included
- Length to 36’

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

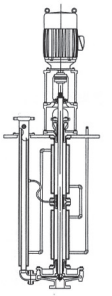






Options



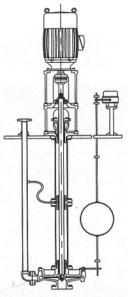
Duplex Construction

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.



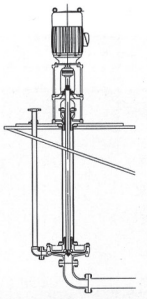
Jacketed Construction

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)
External Flushing Arrangements for Shaft Bearings
Cladded Support Plates (Stainless Steel, nichel, etc.)
Mechanical Seal (Liquid and/or Gas Type)

Duplex Thrust Bearing
Vapor-Proof Construction
Suction Strainer
Suction Tailpipe

Low-Flow Design
300# Flanges
Customized Support Plate
(e.g. to fix existing piping and mounting configuration)