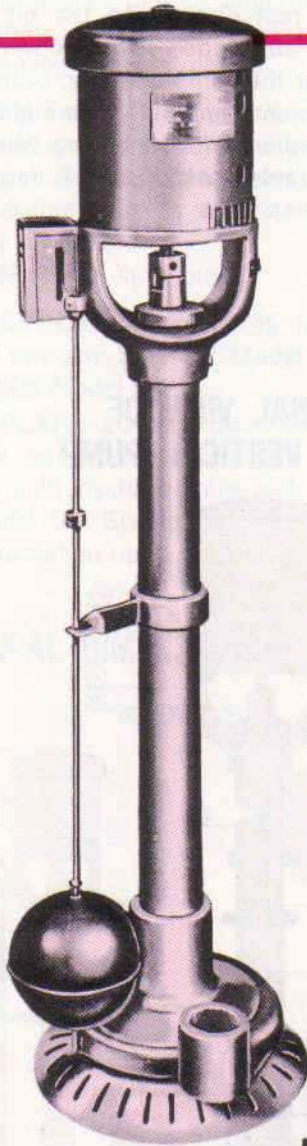


# LOBEE VERTICAL SUMP PUMP



Model S  
for floor mounting



Model SA  
suspended from cover

A heavy duty, moderately priced unit for general industrial applications up to 95 G.P.M., these Lobe Sump Pumps provide dependable protection against flooding in basements, boiler, scale and elevator pits or any below sewer level areas ■ They

are easy to install, provide non-clog service and require a minimum of maintenance ■ Models may be equipped to meet any special service conditions.

**LOBEE PUMP & MACHINERY COMPANY / GASPORT, NEW YORK 14067 / Phone 716-772-2651**

**Noted for Highest Quality Pumps Since 1899**



# LOBEE Vertical Sump Pumps are designed for reliable operation over a wide range of installation conditions

Dependable performance is what you expect and get when you install a Lobee sump pump.

The overall design as well as each individual part has been engineered, tested and proven for trouble-free service and long life.

The strainer eliminates the possibility of pump stoppage from trashy material often present in drainage or flood waters. Extra strength pump casing and motor mount castings plus heavy duty bearings reduce vibration and wear even in pumps with extra long columns for deep sumps.

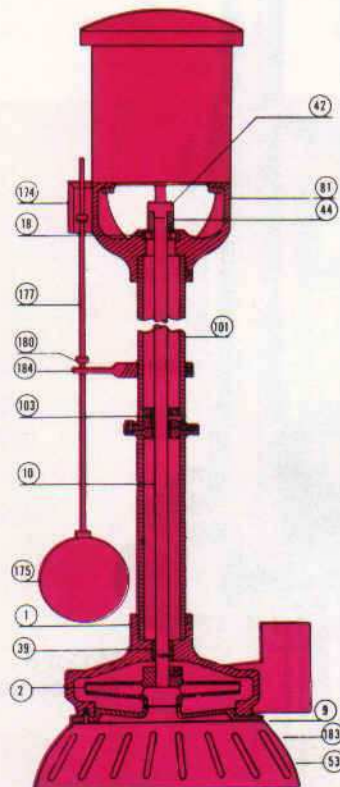
Model S pump for open pits has a pedestal base permitting unit to rest directly on the pit floor.

Model SA pump is suspended from a cover plate which is placed over the sump opening. Both units may be had with column lengths up to eight feet. Cover plates are available for mounting two units together when a duplex installation is required.

## PARTS LIST

- 1 Casing
- 2 Impeller
- 9 Suction Cover (SA Model only)
- 10 Shaft
- 18 Thrust Bearing
- 39 Bearing Bushing
- 42 Coupling (Motor Half)
- 44 Coupling (Pump Half)
- 53 Base (S Model only)
- 81 Driver Pedestal
- 101 Column Pipe
- 103 Intermediate Oilite Bearing
- 174 Float Switch
- 175 Float
- 177 Float Rod
- 180 Stops
- 183 Strainer (SA Model only)
- 184 Float Rod Guide

## SECTIONAL VIEW OF LOBEE VERTICAL PUMP



## PERFORMANCE TABLE

Model	HP	1750 RPM—60 CYCLE								
		Gallons Per Minute								
		10	20	30	40	50	60	70	80	90
S3-SA3	1/3	22'	20'	19'	17'	15'	12'			
S5-SA5	1/2	31'	30'	28'	26'	24'	22'	18'	10'	
S7-SA7	3/4	38'	37'	35'	33'	31'	28'	24'	20'	10'



## GENERAL SPECIFICATIONS

**MOTOR:** Dependable electric motor, developing  $\frac{1}{3}$ ,  $\frac{1}{2}$  or  $\frac{3}{4}$  hp is vertically mounted. The 110/220-volt single phase motor operates at a wear-saving 1750 rpm. Motor bracket is carefully machined to assure perfect alignment of pump and motor shaft. Built-in overload protection is provided on single phase motors.

**CONTROL:** Two pole heavy duty, snap action float switch with guided float rod, adjustable stops and copper ball float. Displacement weight type with non-breakable weights and stainless steel cable available on request.

**COLUMN:** 2-inch steel pipe.

**STRAINER:** Cast iron with  $\frac{3}{8}$  inch perforations. Vertical circular type for Model S, horizontal or flat type for Model SA.

**COVER PLATE:** 20 inch diameter aluminum split cover or suspension plate with float rod guide and  $1\frac{1}{2}$  inch discharge pipe with  $45^\circ$  ell furnished with model SA. Special size covers of steel plate can be furnished upon request.

**CASING:** Close grained cast iron, streamline volute.

**IMPELLER:** Model S and SA Sump Pumps are equipped with a 4 vane, enclosed-type cast iron impeller designed for handling industrial wastes. The perforated cast iron strainer prevents larger materials from entering the pump. These pumps easily handle all wastes encountered in normal industrial service.

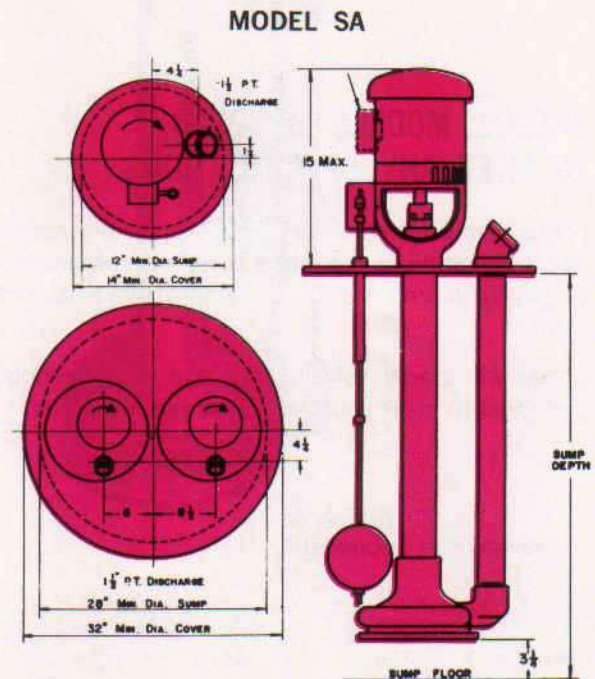
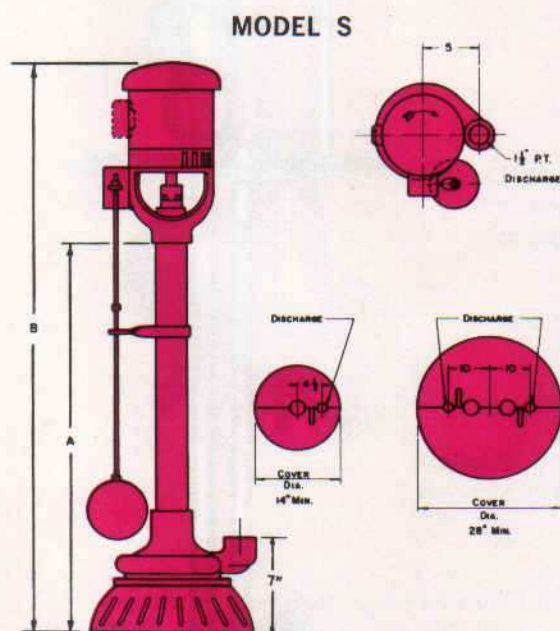
**SHAFT:**  $\frac{3}{4}$ " Type 416 stainless steel pump shaft is ground and polished over-all for smooth rotating action. Heavy-duty, ball-type thrust bearing supports impeller shaft assembly and takes all thrust loads. For pumps with longer settings, shaft gets additional alignment support from intermediate Oilite bearing.

**BEARINGS:** Heavy duty, ball type thrust bearing, bronze sleeve type bottom Oilite bearing.

**INTERMEDIATE BEARING:** Cast iron housing with Oilite bearing furnished when sump depth exceeds 4 feet and for each additional 4 feet or fraction. This bearing interchangeable with bottom Oilite bearing.

**COUPLING:** Flexible type.

## PRINCIPAL DIMENSIONS



MODEL	MODEL	MODEL	A	B
S3-2	S5-2	S7-2	24 $\frac{1}{2}$	39
S3-3	S5-3	S7-3	36 $\frac{1}{2}$	51
S3-4	S5-4	S7-4	48 $\frac{1}{2}$	63
S3-5	S5-5	S7-5	60 $\frac{1}{2}$	75
S3-6	S5-6	S7-6	72 $\frac{1}{2}$	87
S3-7	S5-7	S7-7	84 $\frac{1}{2}$	99
S3-8	S5-8	S7-8	96 $\frac{1}{2}$	111

MODEL	MODEL	MODEL	SUMP DEPTH
SA3-2	SA5-2	SA7-2	24
SA3-3	SA5-3	SA7-3	36
SA3-4	SA5-4	SA7-4	48
SA3-5	SA5-5	SA7-5	60
SA3-6	SA5-6	SA7-6	72
SA3-7	SA5-7	SA7-7	84
SA3-8	SA5-8	SA7-8	96



## ARCHITECTS OR ENGINEERS SPECIFICATION FORM

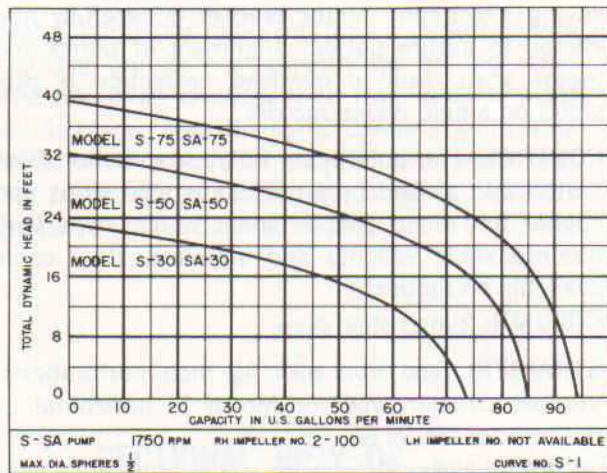
SUMP or BILGE PUMP—Furnish and install where shown on plans, a LOBEE standard fitted, automatic electric sump or bilge pump:

Model S, floor mounted, \_\_\_\_ in. diameter steel split cover if required.

Model SA, suspended, \_\_\_\_ in. diameter solid steel sump cover having 1½" discharge pipe extended through cover with 45° ell.

for \_\_\_\_ sump depth, with cast iron motor pedestal, thrust bearing and flexible coupling for direct connection to a \_\_\_\_ HP, 1750 RPM, \_\_\_\_ volt, \_\_\_\_ phase, 60 cycle, vertical, solid shaft, ball bearing, drip-proof motor and two-pole, heavy duty, snap action float switch with copper float, aluminum float rod with adjustable float stops and guide. Each pump to have a capacity of \_\_\_\_ GPM against a total dynamic head of \_\_\_\_ ft. when operating at 1750 RPM.

## PERFORMANCE CURVE FOR LOBEE MODEL S AND SA PUMPS



## SPECIAL MODELS EQUIPPED TO MEET ANY SPECIFICATIONS

Lobee Sump Pump units can be specially constructed to meet any installation or operating condition. Model with special vapor or gas tight construction and water tight float switch is shown at right.

Lobee will gladly solve your sump pump problems with a unit designed to meet your particular requirements.



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