

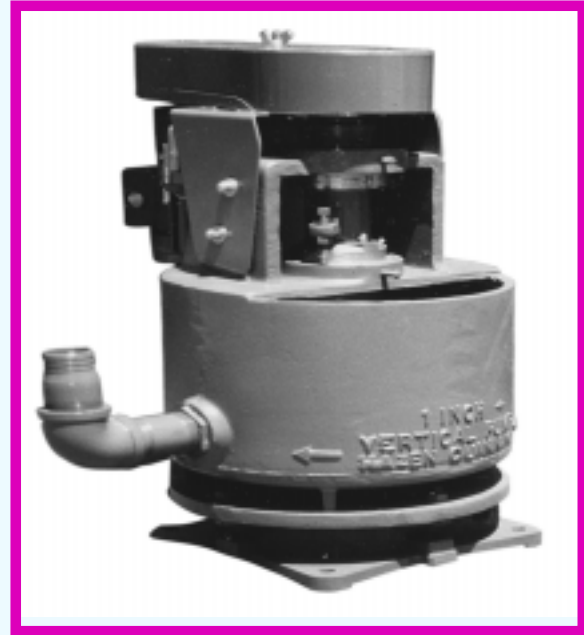


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VERTICAL CENTRIFUGAL SAND PUMP

The Vertical Centrifugal Sand Pumps are designed for pumping abrasive slurries. They handle intermittent or varying feed, are well suited for pilot plant applications for pumping slurries, since the feed to the pump may either be introduced into the top of the 4 gallon bowl, or alternatively, through a feed port inlet.

Capacities for the sand pumps are shown on the reverse side, for various head, rpm and motor horsepower conditions. The capacities vary from 7 GPM to 200 GPM. The sand pump has a riser overflow pipe, designed to overflow slurry and/or froth at a level that will protect the pumps lower seals and bearings from immersion. The riser may be rotated to the proper height to suit a specific installation.



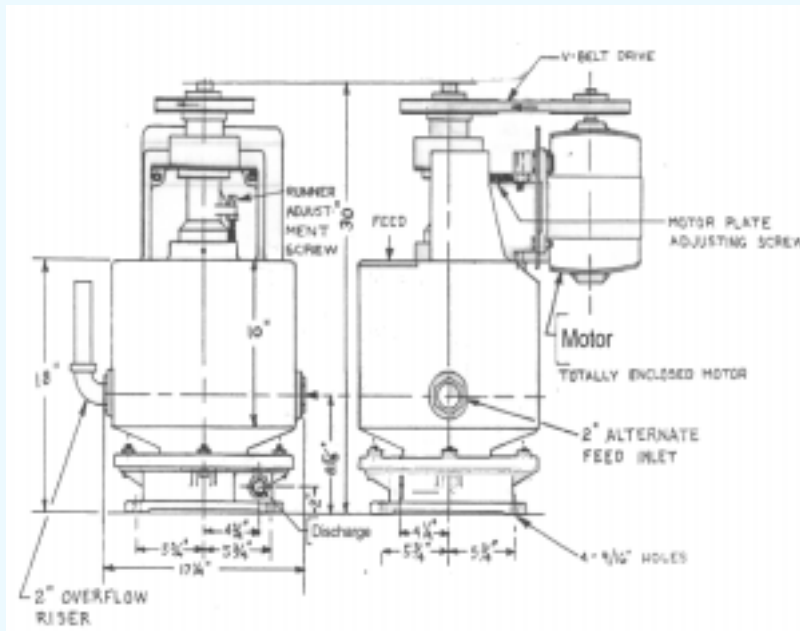
1" Deep Bowl Sand Pump

Some advantages of the sand pump are Ni-Hard constructed wear parts, with a hardness of 550 Brinell, rubber molded follower plate, runner adjustment is made through a screw device positioned in heavy lug cast integral with bearing housing, with the housing sliding in babbitted bearings cast in the pump bowl, lower bearing is positioned above the slurry level, pump design eliminates air locking, pump requires no packing gland or sealing water, pump has its own integral sump, gravity feed to pump is possible, pump may be operated dry without damage, all parts are readily accessible for easy maintenance. The 1 1/2" and the 2" Sand Pump's are constructed of carbon steel, with abrasion resistant alloy wear parts.

Catalog Number	Description	Capacity @ 40' TDH	Sump Volume	Motor HP	Ship Weight (Pounds)
030A-032	1" Sand Pump	10 GPM	4 Gal	1.5	400
030A-033	1" Sand Pump	20 GPM	4 Gal	2.0	400
030A-034	1" Sand Pump	40 GPM	4 Gal	3.0	400
030A-270	1.5" Sand Pump*	7 GPM	23 Gal	3.0	220
030A-275	2" Sand Pump*	200 GPM	68 Gal	10.0	820

* - Fabricated Steel Construction

SAND PUMP GENERAL LAYOUT AND DIMENSIONAL DATA



ESTIMATED CAPACITY FOR 1" VERTICAL DEEP BOWL SAND PUMP

Capacity 25% Solids	10' TDH		20' TDH		30' TDH		40' TDH		50' TDH		60' TDH	
	rpm	hp	rpm	hp	rpm	hp	rpm	hp	rpm	hp	rpm	hp
0 to 10 gpm	1160	1-1/2	1210	1-1/2	1300	2	1450	2	1650	2	1810	2
10 to 20 gpm	1200	1-1/2	1260	1-1/2	1325	2	1520	2	1720	2	1860	3
20 to 30 gpm	1250	1-1/2	1320	1-1/2	1400	2	1630	2	1800	3	1920	3
30 to 40 gpm	1315	1-1/2	1375	2	1510	2	1700	3	1860	3	1960	3

Note: Estimated capacity based on 2.75 specific gravity, solids at 25% slurry density.
Pumps will handle up to 60 gpm against 50' TDH of solution or dilute non-abrasive slurry.

Estimated capacity is based upon 2.75 SG solids at 25% solids density.
Pumps will handle up to 60 GPM @50 feet TDH of solution or non abrasive slurry.

Specifications, 1" Sand Pump

Runner case constructed of 550 Brinell Ni Hard
Bowl provided with 2" riser pipe
Bearings are anti friction self aligning type
Upper bearing is protected with dust cap
Lower bearing is protected with rotating slinger
and double grease seal

Motor is TEFC 3 Ph, 60 Hz, 230/460 V.
380 V/3 Ph/50 Hz available
Drive guard is OSHA type
Bowl and spindle housing are constructed
of high quality ductile iron
V-belt drive provides flexibility in pump speed

Specifications, 1 1/2" & 2" Sand Pump

All bearings above slurry level
No Sealing Water required
Wear parts easily changeable
1 1/2" dia. or 2" dia. Inlet and Outlet
Large sump volume for chemical addition, etc.

Motor is TEFC 3 Ph, 60 Hz, 230/460 V.
380 V/3 Ph/50 Hz available
Drive guard is OSHA type
Bowl and spindle housing are constructed
of high quality ductile iron
V-belt drive provides flexibility in pump speed