

Nagle Pumps



Pump Selector

- Vertical Cantilever Pumps
- Vertical Submersible Pumps
- Heavy Duty Horizontal Pumps
- Accessories

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- Endurance Engineered Pumps For Maximum Service Life
- Specializing in Pumps For Abusive Applications



RUTHMAN
Engineering Pump Solutions™

www.RuthmanCompanies.com

The Nagle Line



The Nagle Model TWO:
Our Most In-Demand Pump

- **Vertical Cantilever Pumps**
- **Vertical Submersible Pumps**
- **Heavy Duty Horizontal Pumps**
- **Accessories**

For more than 70 years, Nagle Pumps have been the standard for excellence and reliability in Heavy-Duty Pumps for abrasive, corrosive and high temperature applications. A wide selection of designs, components and materials of construction (available in any abrasion, corrosion, or heat resistant material) allows Nagle to custom engineer each pump to meet your specific requirements. Nagle manufactures Vertical Cantilever, Wet and Dry Mounted, Submerged Bearing, Horizontal, and Submersible Pumps.

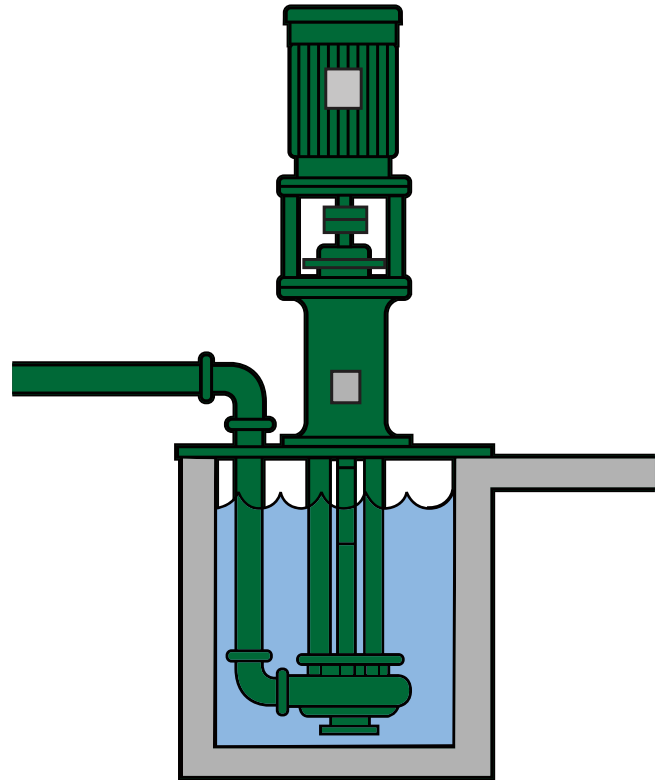
Endurance Engineered Features Include:

- Progressive casting wall thickness for maximum service life
- Single volute, single discharge to allow maximum solids passage which eliminates the need for hydraulic balancing, allowing dry running
- Cantilever Pump has no packing seals below the mounting plate
- All mated components register-fit to ensure concentricity and aid in reassembly of the pump
- Thru-bolt construction below the mounting plate provides easy maintenance
- Impeller wear adjustment is located above the sump cover on all vertical models and are easily accessible on horizontal models.
- On vertical pumps, open bypass design feature will tolerate pump shut-off
- Drive options include direct V-belt, right angle, and variable frequency

The TWO Vertical Cantilever

TWO Vertical Cantilever Shaft Wet Pit Pump

Nagle's most popular pump is designed for wet pit installation with bottom suction or optional top suction. The TWO uses four tubular supports for pump frame stability and allows for open-shaft design. The TWO is recommended for handling heavy slurries up to 70% solids, molten salts, and metals up to 1500°+ F, with sizes 1" through 16", capacities to over 10,000 gpm, and pressures to 130 psi.

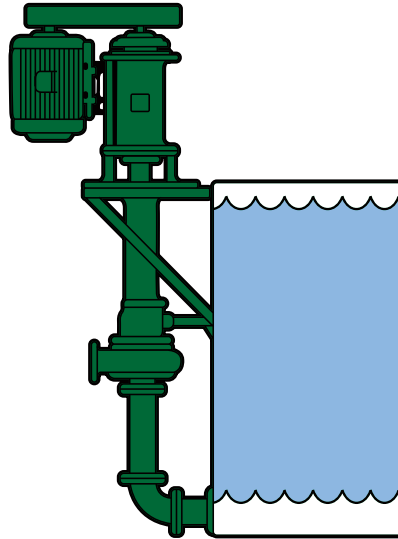


More Vertical Cantilevers

CDO

Dry-Mounted Cantilever Pump

The CDO employs a true cantilever shaft principal which has no submerged bearings, packing, or seals in contact with the pumpage. The CDO is available in both top and bottom suction. Sizes: 1.5" through 10", capacities to 4000 gpm, and heads from 5' to over 200'.



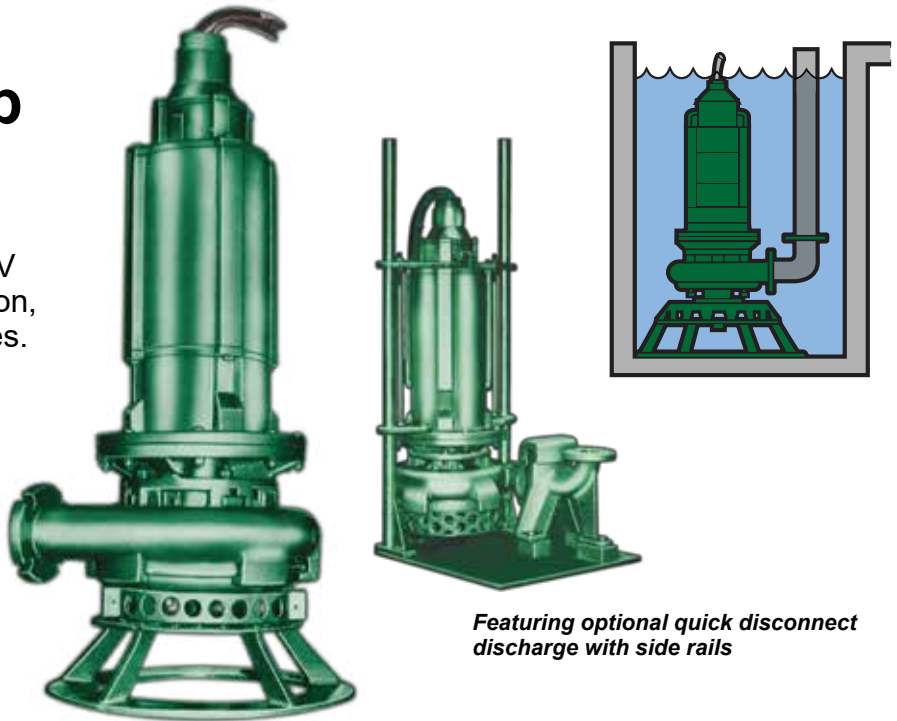
MWO Vertical Cantilever Shaft Pump

The MWO has no bearings, bushings, brushes, or rubbing parts below the mounting plate. The spacer area, which is located between the mounting plate and the motor, allows for minor overflow or washdown. Discharge sizes are 1" through 3", with shaft settings up to 3'. A suction extension to increase the overall pump length is available. The MWO pumps are also available in a dry pit design.

Vertical Submersible Pumps

SML/SMR/SMV Submersible Pump

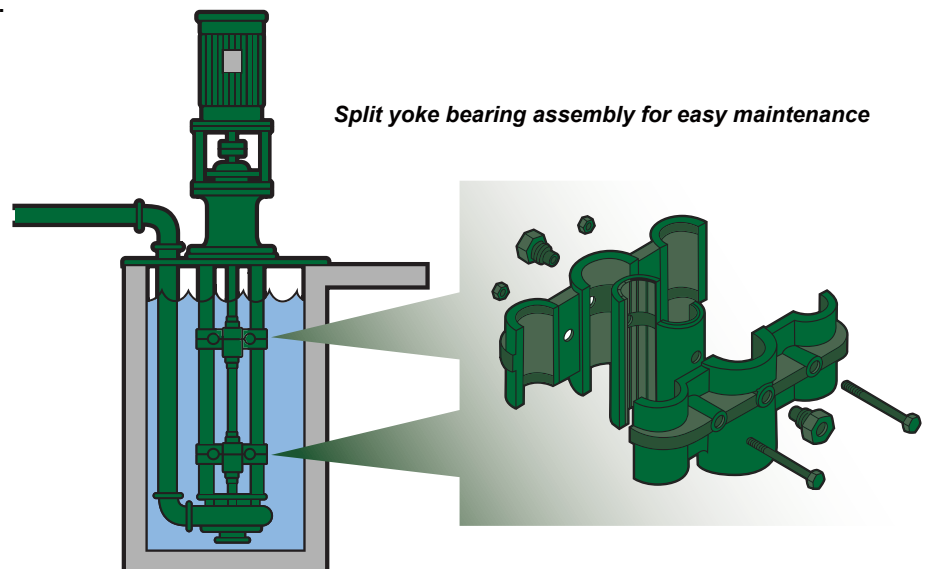
These pumps feature a combination strainer and pump stand with a slurry type water end. Although designed to operate submerged, the SML/SMR/SMV models are also available in air operation, with shaft seal remaining wet at all times. The motor can be explosion-proof or standard enclosure, and is equipped with moisture sensing probes and full thermal protection in windings. SML/SMR sizes: 1" through 10", with capacities to 4,000 gpm. SMV sizes: 2" through 6", with capacities up to 2000 gpm.



Featuring optional quick disconnect discharge with side rails

YWS Vertical Submerged Bearing Pump

The YWS has easy maintenance features, including split yoke bearing assemblies (see inset), and lubrication of the lower bearing(s) from above the floor plate. Several types of lubrication are available. Tailpipes can be added to the bottom suction of this unit, permitting the use of a shorter setting. Sizes: 1" through 16", with capacities to over 10,000 gpm, and pressures up to 130 psi.



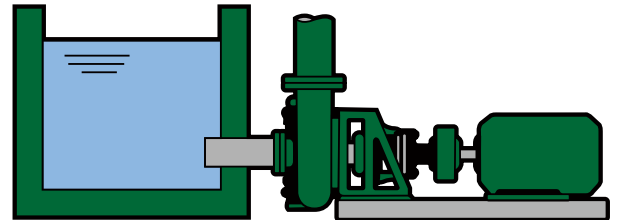
Split yoke bearing assembly for easy maintenance

Heavy Duty Horizontal Pumps

Model FCH Horizontal Pump



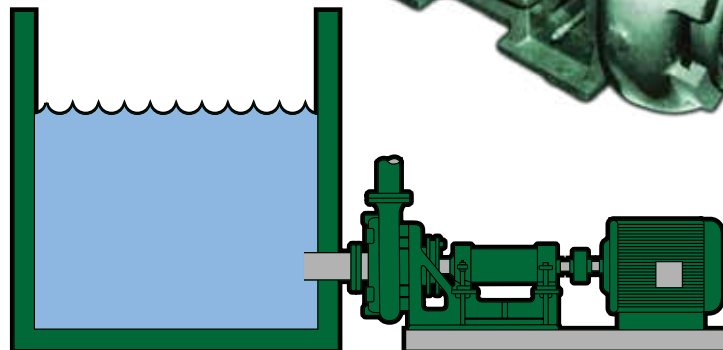
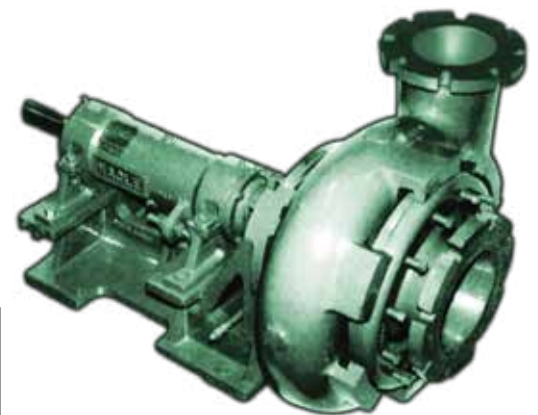
Model FDV-H Dry Pit



These models have a rugged heavy-duty design with only three wearing parts: casing, suction plate and impeller. They can be used above or below the liquid level as a second stage booster unit (see Priming Inductor, page 7). The enclosed shaft/cartridge bearing assembly protects bearings from contamination or pumpage blow-by. The Nagle FCH Horizontal has several options, including a dynamic seal assembly and optional vertical mounting (see model FDV-H above). Sizes: 1" through 16", with capacities to over 10,000 gpm, and pressures up to 150 psi.

Model KCR Horizontal Pump

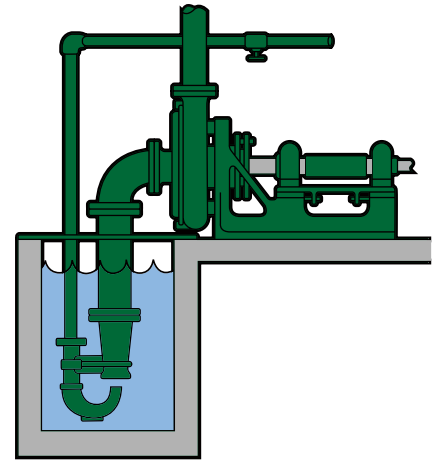
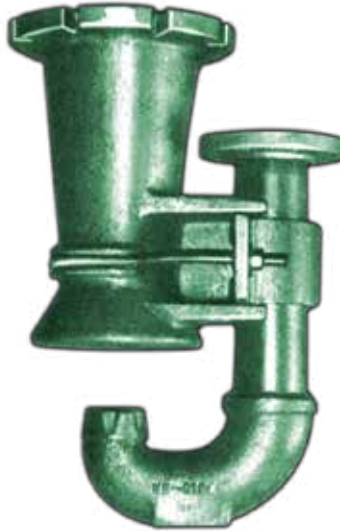
The KCR's rugged heavy-duty design also has only three wearing parts: casing, suction plate, and impeller. The KCR can also be used above or below the liquid level as a second stage booster unit (see Priming Inductor, page 7). An enclosed shaft/cartridge bearing assembly protects bearings from contamination or pumpage blow-by. The Nagle KCR Horizontal has several options, including a dynamic seal assembly on some sizes, and a suction inducer to handle heavy media. Sizes: 1" through 16", with capacities to over 10,000 gpm, and pressures up to 150 psi.



Accessories

Priming Inductor

This device primes pumping systems where the pump is stationed above liquid level. If left on, the inductor functions mainly as a booster pump, increasing the head developed by the pump, and the capacity of the system. Operation is possible even when the entrance pipe is well covered over with solids. A wide selection of materials of construction allows Nagle to meet your requirements. Sizes: 1.5" through 12".



Agitator

This accessory provides excellent sump agitation to keep the suction from clogging. This option will insure proper operation when exposed to heavy concentrations of solids. The agitator can be used on Nagle's vertical cantilever, submerged bearing, and submersible units. The material of construction is selected specifically for the Nagle customer's particular application.

Discharge Elbow

With long and standard radius types with smooth flow lines, Discharge Elbows are endurance engineered to minimize wear and tear, or need for replacement. A wide selection of materials are available to accommodate the Nagle customer's specific requirements. Sizes: 1" through 16".



Applications

Custom Engineering For Cost Efficient Pumping Solutions

Nagle Pumps has thousands of installations in Power, Chemical, Petrochemical, Steel, Water Treatment, Foundry, Ceramic, Metalworking, and other Process Industries. All these attest to the Nagle philosophy of "Endurance Engineering"...a Commitment to the design and manufacture of pumps which provide the longest service life with minimum maintenance.

Nagle Pumps Typical Applications

Power

- Ash Removal
- Ash Sluice
- Coal Handling
- Coal Pile Runoff
- Pond Return Water
- Scrubber Water

Petroleum

- Coke Breeze
- Separator Pumps
- Filter Feed

Chemical

- Corrosive Pumping
- Molten Salts
- Ammonium Nitrate
- Waste Disposal
- Metal Process

Mining

- Heavy Media
- Crusher Wash
- Tailings Removal
- Dredging
- Dewatering

Steel

- Scale Removal
- Slag Quench
- Coal or Coke Slurry

Sand / Gravel

- Dredging
- Dewatering
- Wash/Prep Pumps

High Temperature

- Molten Salts
- Ammonium Nitrate
- Molten Sulphur
- Molten Lead

Other Industries

- Sewage
- Ceramic
- Paper
- Sugar
- Phosphate



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Contact Nagle:

3565 Dixie Hwy, Dry Ridge, KY 41035
Phone: 859.428.5416
Sales@NaglePumps.com
www.NaglePumps.com