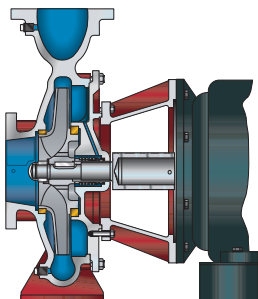




AMERICAN-MARSH PUMPS

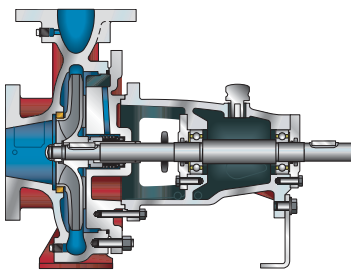
"DURABILITY BY DESIGN SINCE 1873"

Water Systems Group
Commercial/Industrial Products



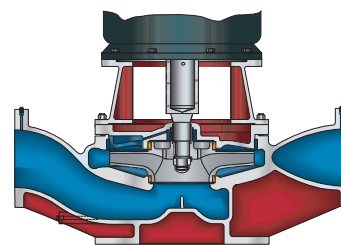
300 Series REC
General Purpose End Suction

Uses: Circulation, booster, irrigation, agricultural.	
Features: Close-coupled, enclosed impellers, centerline discharge, back pull-out.	
Discharge Size Range	1-1/4 - 12" 32 - 300 mm
Capacity	9,000 gpm (2,044 m ³ /hr)
Head	450 feet (137 meters)
Temperature	250° F (121° C)
Liquids Pumped	Water and Clear Liquids



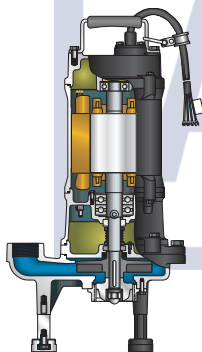
300 Series REF
General Purpose End Suction

Uses: Circulation, booster, irrigation, agricultural.	
Features: Flex-coupled, enclosed impellers, centerline discharge, back pull-out.	
Discharge Size Range	1-1/4 - 12" 32 - 300 mm
Capacity	9,000 gpm (2,044 m ³ /hr)
Head	450 feet (137 meters)
Temperature	250° F (121° C)
Liquids Pumped	Water and Clear Liquids



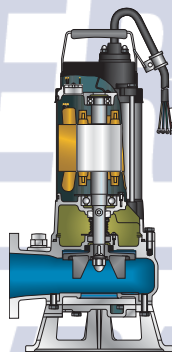
300 Series REI
General Purpose End Suction

Uses: Circulation, booster, irrigation, agricultural.	
Features: Close-coupled, enclosed impellers, vertical inline discharge, back pull-out.	
Discharge Size Range	2 - 14" 50 - 350 mm
Capacity	9,000 gpm (2,044 m ³ /hr)
Head	450 feet (137 meters)
Temperature	250° F (121° C)
Liquids Pumped	Water and Clear Liquids



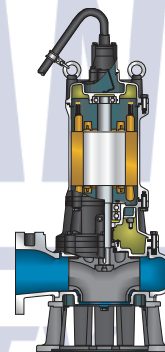
330 Series SGV
Submersible Grinder

Uses: Sewage, sump waste, residential.	
Features: Open impellers, hardened stainless steel Quadra-Cutter, guide rail system.	
Discharge Size Range	1-1/4 - 2" 32 - 50 mm
Capacity	80 gpm (18 m ³ /hr)
Head	120 feet (37 meters)
Temperature	100° F (38° C)
Liquids Pumped	Sewage



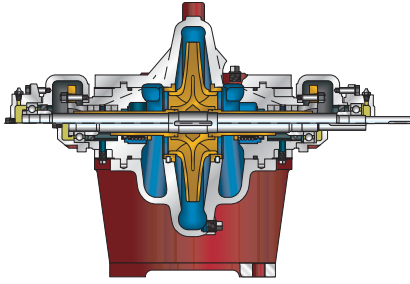
330 Series SSE
Submersible Sewage Ejector

Uses: Sewage, sump waste, residential.	
Features: Open impellers, single vane cutter impellers, guide rail system.	
Discharge Size Range	2 - 3" 50 - 80 mm
Capacity	240 gpm (55 m ³ /hr)
Head	60 feet (18 meters)
Temperature	100° F (38° C)
Liquids Pumped	Sewage



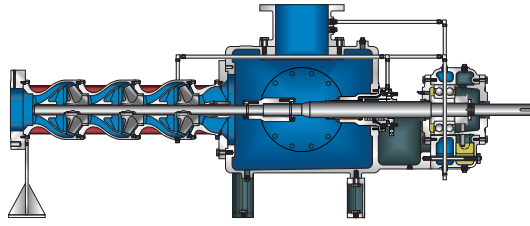
330 Series SNC
Submersible Non-Clog

Uses: Sewage, sump waste, residential.	
Features: Open impellers, single vane cutter impellers, guide rail system.	
Discharge Size Range	2 - 16" 50 - 400 mm
Capacity	6,400 gpm (1,454 m ³ /hr)
Head	140 feet (43 meters)
Temperature	100° F (38° C)
Liquids Pumped	Sewage and Heavy Solids



340 Series HD
Double Suction HSC

Uses: Circulation, booster, HVAC, transfer, cooling tower.	
Features: Double suction, completely removable rotor assembly, case wear rings, grease lube.	
Discharge Size Range	2 - 44" 50 - 1100 mm
Capacity	73,000 gpm (16,580 m ³ /hr)
Head	550 feet (168 meters)
Temperature	250° F (121° C)
Liquids Pumped	Water and Clear Liquids



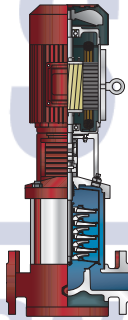
380 Series HT
Horizontal Turbine

Uses: Boiler feed, high pressure, chemical injection.	
Features: Close-coupled, enclosed impellers, modular design, high efficiency.	
Discharge Size Range	3 - 10" 80 - 250 mm
Capacity	2,500 gpm (567 m ³ /hr)
Head	2,500 feet (762 meters)
Temperature	400° F (204° C)
Liquids Pumped	Hot Condensate and Clear Liquids

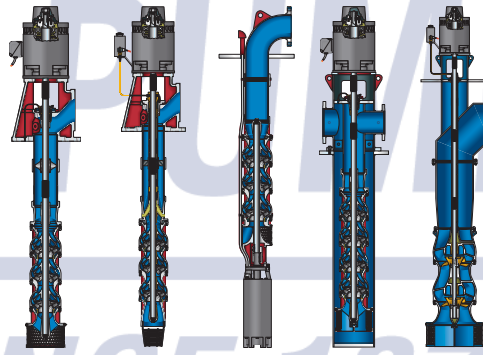


470 Series
6" - 10" SEI

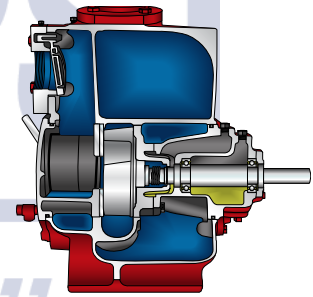
Uses: Municipal, residential, mine dewatering, irrigation, agricultural.	
Features: Stamped stainless steel, modular design and wide hydraulic range.	
Discharge Size Range	1 - 6" NPT 25 - 150 mm
Capacity	1,100 gpm (250 m ³ /hr)
Head	2,000 feet (610 meters)
Temperature	150° F (66° C)
Liquids Pumped	water



470 Series VM
Vertical Multistage



480 Series Vertical Turbine
Vertical Turbine



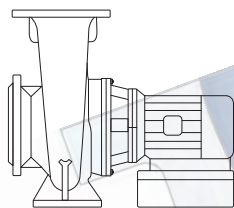
490 Series NOVO SST/AD/LS
Self-Primer Centrifugal

Uses: Boiler feed, liquid feed process, chemical injection.	
Features: Close-coupled, inline piping connection, removable stack, cartridge mechanical seal.	
Discharge Size Range	1-1/4 - 6" 30 - 150 mm
Capacity	630 gpm (143 m ³ /hr)
Head	995 feet (303 meters)
Temperature	350° F (177° C)
Liquids Pumped	Water and Clear Liquids

Uses: Municipal, water well, irrigation, agricultural.	
Features: Modular design, enameled bowls, cast iron and fabricated discharge heads.	
Discharge Size Range	4 - 30+" 100 - 760+ mm
Capacity	30,000+ gpm (6,815+ m ³ /hr)
Head	2,310 feet (704 meters)
Temperature	250° F (121° C)
Liquids Pumped	Water, Volatile Liquids, Chemicals

Uses: Lift station, sewage, storm water, mobile or stationary.	
Features: Self-primer, semi-open impeller, replaceable wear plate, back pull-out, clean-outs.	
Discharge Size Range	1-1/2 - 12" 40 - 300 mm
Capacity	6,400 gpm (1,454 m ³ /hr)
Head	260 feet (79 meters)
Temperature	180° F (82° C)
Liquids Pumped	Water, Volatile Liquids, Chemicals

Model REC Close-Coupled



Enclosed Impeller

Sizes: 1" to 12"
Flows: 9,000 GPM
Heads: 450 Feet
Temp: 250° F

Services:

-  Aerospace
-  Building Trades
-  Chemical
-  Construction
-  Food & Beverage
-  General Industry
-  Marine
-  Mining & Aggregate
-  OEM
-  Oil & Gas
-  Power Generation
-  Petro-Chemical
-  Pharmaceutical
-  Pulp & Paper
-  Semiconductor
-  Water & Wastewater

Motor

- Standard stock C-face motor
- Available in a variety of enclosures including ODP, TEFC, Corro Duty, Washdown Duty and Explosion Proof
- Easily removable without disassembly of entire pump

Shaft

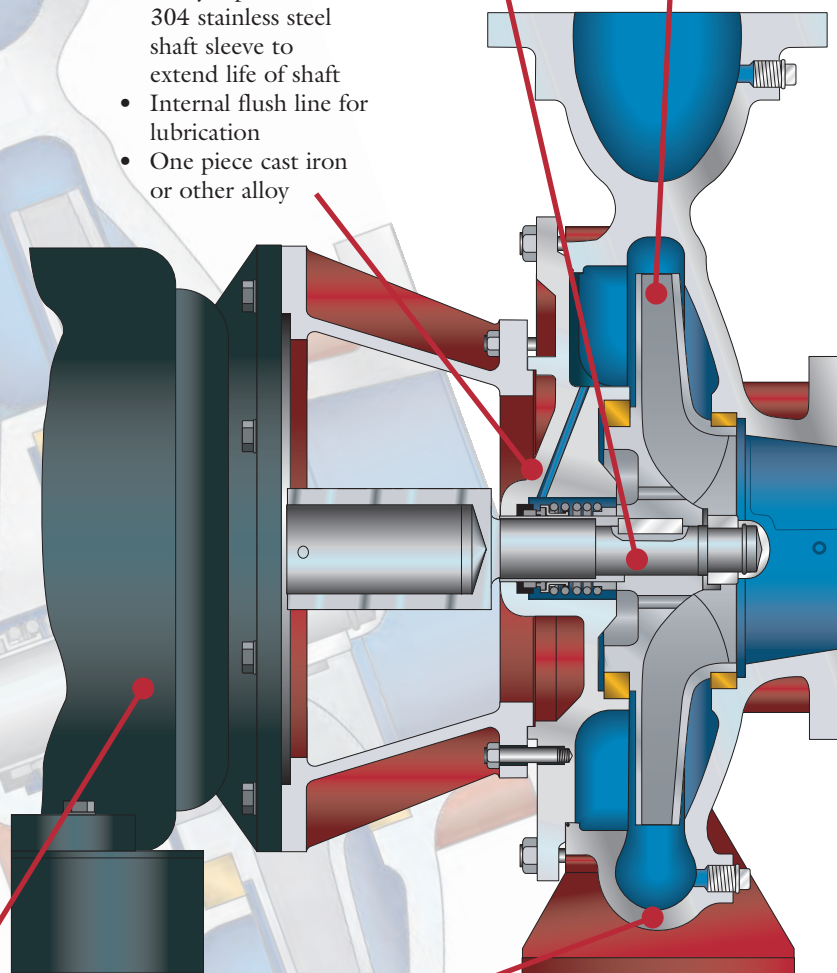
- 420 stainless steel alloy
- Rigid and sized to minimize deflection at seal area

Stuffing Box

- Standard American-Marsh Series 810 Carbon/Silicon Carbide/Viton mechanical seal
- Easily replaceable 304 stainless steel shaft sleeve to extend life of shaft
- Internal flush line for lubrication
- One piece cast iron or other alloy

Impeller

- Hydraulically balanced
- Back pump out vanes prohibit material from building up behind impeller
- One piece 304 stainless steel or other alloy
- Expertly machined to customer specifications
- Fully balanced prior to assembly



Casing

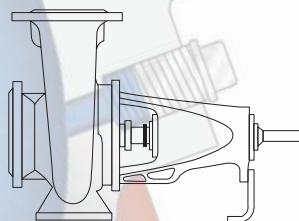
- Heavy duty ASTM A48 cast iron or other alloy
- Fully cast integral feet for support
- Centerline discharge transmits residual pipe strain to feet of casing and eliminates the need for left- or right-handed casings and impellers
- Standard, heavy duty case wear ring
- Heavy wall thickness to provide generous corrosion allowance
- Centerline discharge is self-venting
- Integral vortex suppressor on suction
- Back pull-out for quick removal of impeller assembly
- Pressure taps on suction and discharge to verify pump performance
- Optional 300# suction and discharge flanges
- Standard 250 lb case working pressure

Model REF Flex-Coupled

Sizes: 1-1/4" to 12"
Flows: 9,000 GPM
Heads: 450 Feet
Temp: 250° F

Services:

-  Aerospace
-  Building Trades
-  Chemical
-  Construction
-  Food & Beverage
-  General Industry
-  Marine
-  Mining & Aggregate
-  OEM
-  Oil & Gas
-  Power Generation
-  Petro-Chemical
-  Pharmaceutical
-  Pulp & Paper
-  Semiconductor
-  Water & Wastewater



Enclosed Impeller

Casing

- Standard ASTM A48 Class 30 cast iron
- Heavy wall thickness to provide for generous corrosion allowance
- Integral vortex suppressor on suction
- Fully cast integral feet for support when utilizing "back pull-out" feature
- Centerline discharge transmits residual pipe strain to feet of casing and eliminates the need for left- or right-handed casings and impellers
- Pressure taps on suction and discharge to verify pump performance
- Optional 300# suction and discharge flanges
- Centerline discharge is self-venting
- Standard 250 lb case working pressure

Stuffing Box

- Standard American-Marsh Series 810 Carbon/Silicon Carbide/Viton mechanical seal
- One piece cast iron or other alloy
- Heavy duty with integral flush line for packing lubrication

Bearing Pedestal

- Heavy duty ASTM A48 cast iron
- Single row inboard and outboard bearings
- Oil lubricated power frame with integral sight glass
- Lip seals on each bearing housing cap to keep out contaminants

Case Wear Ring

- Standard bronze or other alloy
- Can be easily removed and replaced when worn
- For additional support, larger models have a front and back case wear ring

Impeller

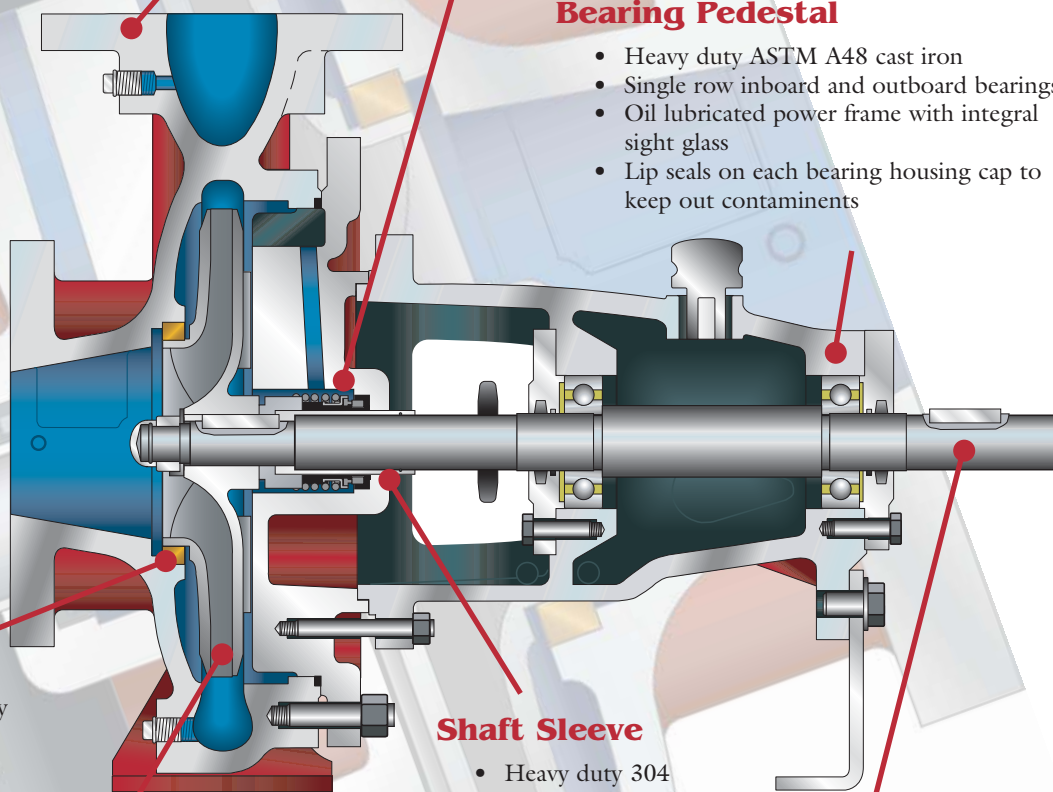
- Hydraulically balanced
- One piece 304 stainless steel or other alloy
- Expertly machined to customer specifications
- Fully balanced prior to assembly
- Back pump out vanes prohibit material from building up behind impeller

Shaft Sleeve

- Heavy duty 304 stainless steel or other alloy
- Protects the shaft from wear
- Can be easily removed and replaced when worn

Shaft

- Designed and sized especially for the pump and its applications
- High strength 420 stainless steel material standard
- Efficiently designed to minimize shaft deflection at the stuffing box

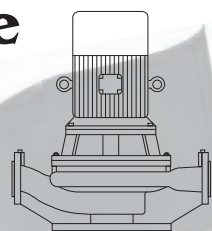


Model REI Vertical Inline

Sizes: 2" to 14"
Flows: 9,000 GPM
Heads: 450 Feet
Temp: 250° F

Services:

-  Aerospace
-  Building Trades
-  Chemical
-  Construction
-  Food & Beverage
-  General Industry
-  Marine
-  Mining & Aggregate
-  OEM
-  Oil & Gas
-  Power Generation
-  Petro-Chemical
-  Pharmaceutical
-  Pulp & Paper
-  Semiconductor
-  Water & Wastewater



Enclosed Impeller

Motor

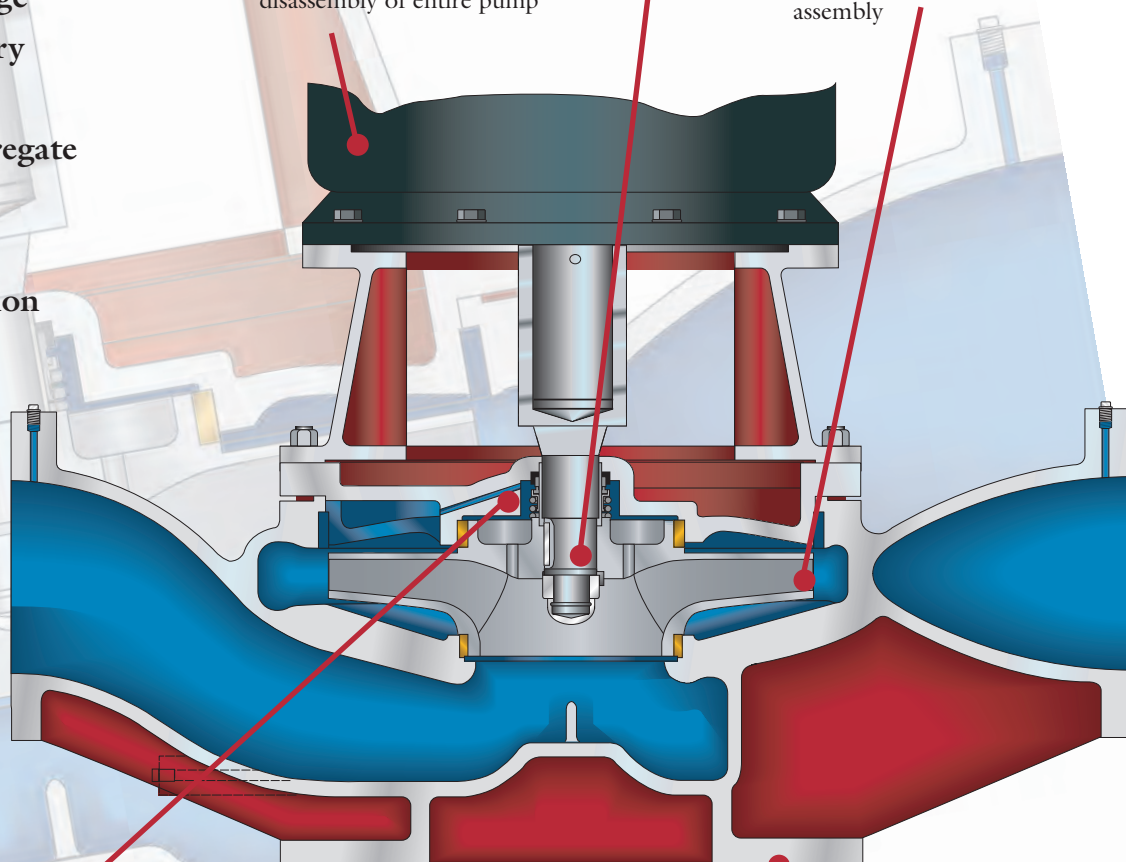
- Standard stock C-face motor
- Available in a variety of enclosures including ODP, TEFC, Corro Duty, Washdown Duty and Explosion Proof
- Easily removable without disassembly of entire pump

Shaft

- 420 stainless steel alloy
- Rigid and sized to minimize deflection at seal area

Impeller

- Hydraulically balanced
- Back pump out vanes prohibit material from building up behind impeller
- One piece 304 stainless steel or other alloy
- Expertly machined to customer specifications
- Fully balanced prior to assembly



Stuffing Box

- Standard American-Marsh Series 810 Carbon/Silicon Carbide/Viton mechanical seal
- Easily replaceable 304 stainless steel shaft sleeve to extend life of shaft
- Internal flush line for lubrication
- One piece cast iron or other alloy

Casing

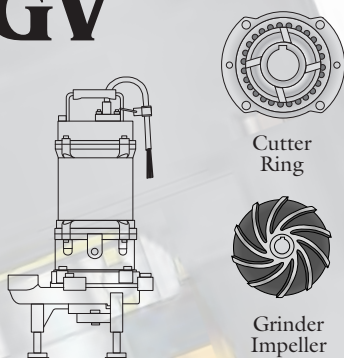
- Heavy duty ASTM A48 cast iron or other alloy
- Cast integral square base
- Inline suction and discharge
- Integral vortex suppressor on suction
- Standard, heavy duty case wear ring
- Heavy wall thickness to provide generous corrosion allowance
- Back pull-out for quick removal of impeller assembly
- Pressure taps on suction and discharge to verify pump performance
- Optional 300# suction and discharge flanges
- Standard 250 lb case working pressure

Model SGV Grinder

Sizes: 1-1/4" to 2"
Flows: 80 GPM
Heads: 120 Feet
Temp: 140° F

Services:

-  **Building Trades**
-  **Chemical**
-  **Construction**
-  **Food & Beverage**
-  **General Industry**
-  **Marine**
-  **Mining & Aggregate**
-  **Oil & Gas**
-  **Power Generation**
-  **Petro-Chemical**
-  **Pharmaceutical**
-  **Pulp & Paper**
-  **Water & Wastewater**



Cable Base

- Integral compression fitting creating a secure mount to the motor frame
- Epoxy sealed to resist moisture from entering the motor
- Stripped back leads to prevent wicking of moisture into the motor

Motor Windings

- Air filled motor design for maximum life and lower operating temperatures
- Heavier duty class F insulation
- Motors available in single or three phase, 50 or 60 cycle and a variety of voltages
- Integral "Auto-Cut" overload protection that protects the motor from high amperage draw, locked impeller and/or high motor temperatures
- Single row outboard and double row inboard bearing for minimal shaft deflection and maximum mechanical seal life
- Optional moisture sensor in winding cavity for ultimate protection

Seal Chamber

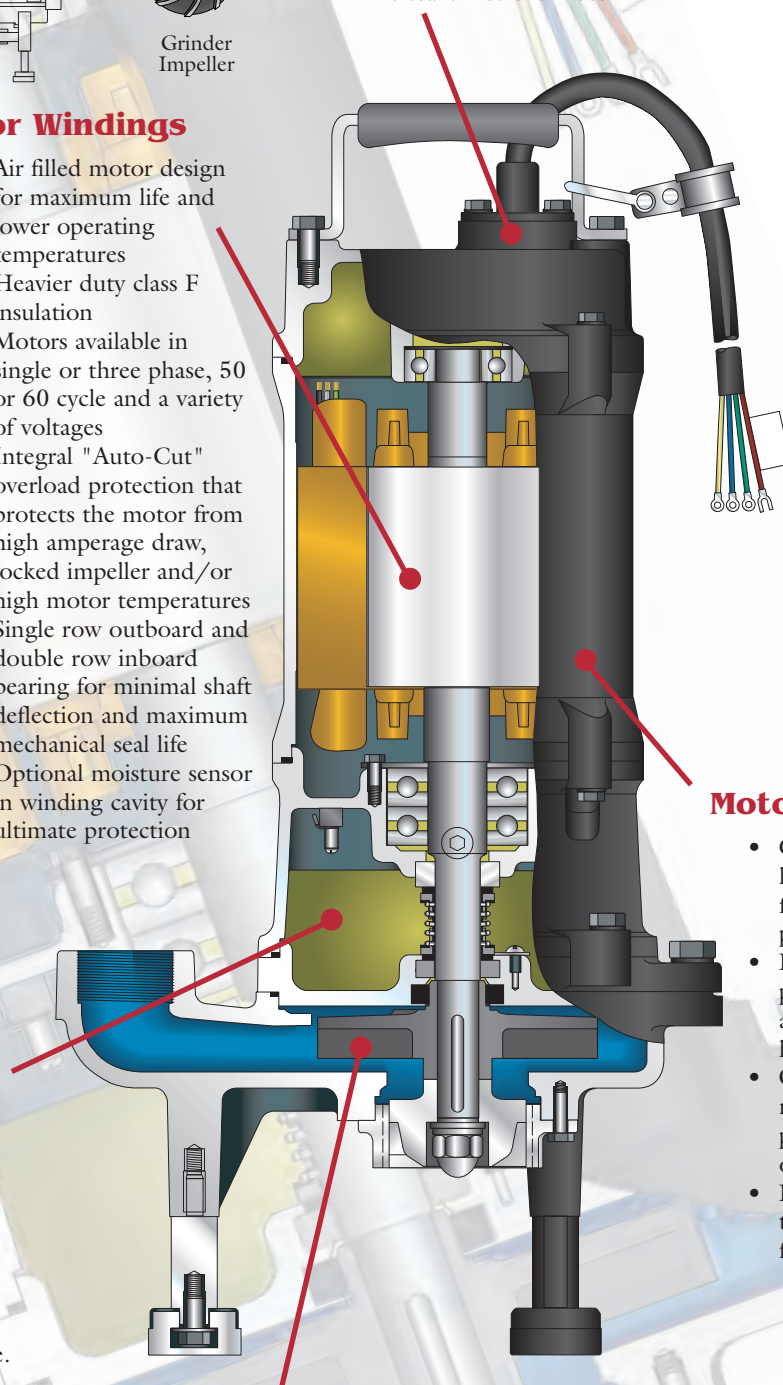
- Double mechanical seal with Si-C/Si-C outboard and Carbon/Ceramic inboard face construction standard
- Integral seal moisture probe standard to indicate seal failure
- Oil lip seal mounted outside of the seal chamber stops large solids from gathering around the seal faces and stops stringy solids from adhering to mechanical seal spring hardware.
- Oil lubricated for maximum protection.

Motor Housing

- Constructed out of high tensile cast iron for maximum protection
- Epoxy coated to prevent corrosion and allow for maximum housing life
- O-ring joints with machined registers to prevent the entrance of moisture
- Integral handle on top of motor to allow for easy installation

Casing, Impeller & Cutter Ring Assembly

- High tensile, heavy wall cast iron casing designed for long life
- High tensile cast iron, semi-open impeller designed to pass sewage slurry efficiently and effectively
- Unique "Quadra-Cutter" cutter ring assembly has four cutters designed to macerate sewage or other solids
- The cutter ring assembly is hardened to 55-60 Rockwell C ensuring long life



Model SSE

Sump/Sewage

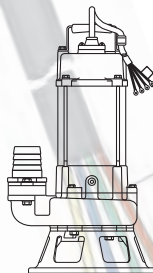
Sizes: 2" to 3"
Flows: 300 GPM
Heads: 90 Feet
Temp: 140° F



Single Vane
Cutter



Vortex
Impeller



Services:

-  Building Trades
-  Chemical
-  Construction
-  Food & Beverage
-  General Industry
-  Marine
-  Mining & Aggregate
-  Oil & Gas
-  Power Generation
-  Petro-Chemical
-  Pharmaceutical
-  Pulp & Paper
-  Water & Wastewater

Motor Windings

- Air filled motor design for maximum life and lower operating temperatures
- Heavier duty class F insulation
- Motors available in single or three phase, 50 or 60 cycle and a variety of voltages
- Integral "Auto-Cut" overload protection that protects the motor from high amperage draw, locked impeller and/or high motor temperatures
- Single row outboard and single row inboard bearing for minimal shaft deflection and maximum mechanical seal life
- Optional moisture sensor in winding cavity for ultimate protection

Seal Chamber

- Double mechanical seal with Si-C/Si-C outboard and Carbon/Ceramic inboard face construction standard
- Oil lip seal mounted outside of the seal chamber stops large solids from gathering around the seal faces and stops stringy solids from adhering to mechanical seal spring hardware.
- Oil lubricated for maximum protection.

Cable Base

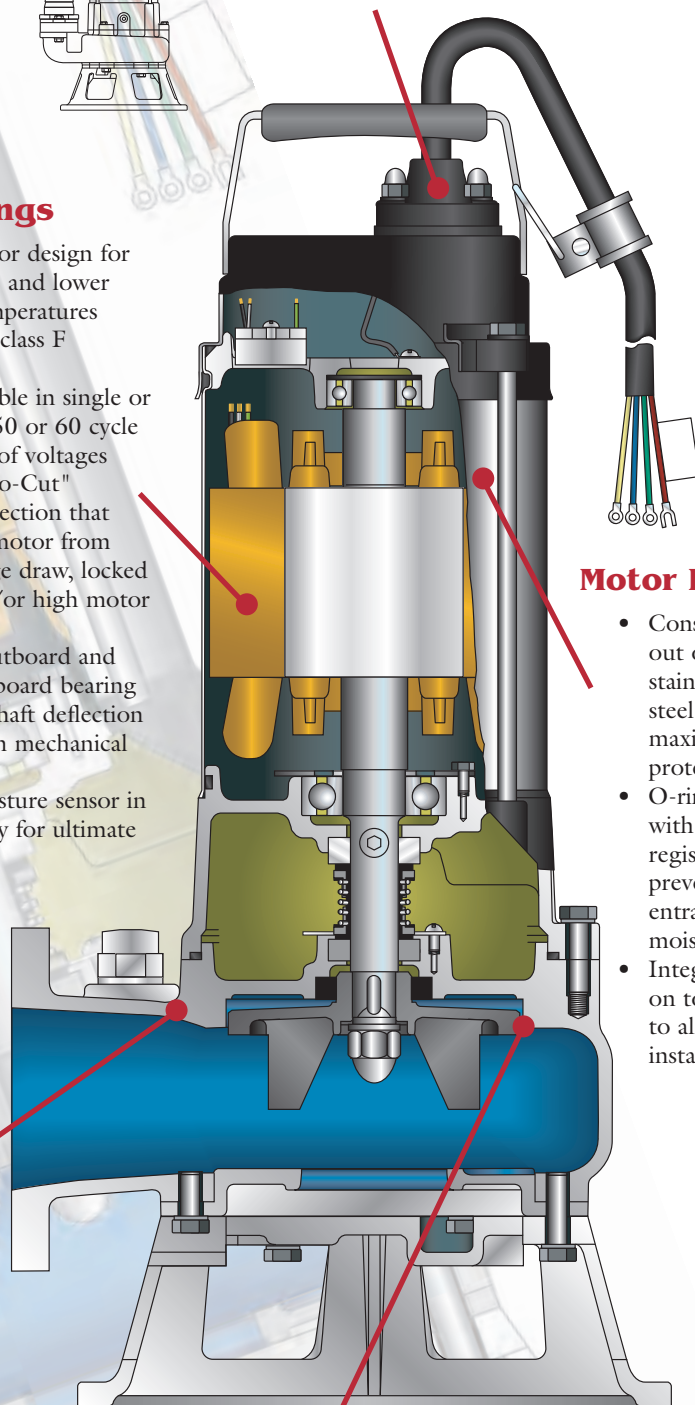
- Integral compression fitting creating a secure mount to the motor frame
- Epoxy sealed to resist moisture from entering the motor
- Stripped back leads to prevent wicking of moisture into the motor

Motor Housing

- Constructed out of 300 stainless steel for maximum protection
- O-ring joints with machined registers to prevent the entrance of moisture
- Integral handle on top of motor to allow for easy installation

Casing & Impeller

- High tensile, heavy wall cast iron casing designed for long life
- High tensile cast iron, semi-open or single vane cutter impeller designed to pass sewage slurry efficiently and effectively
- Impellers are available in semi-open and single vane cutter geometries
- Integral air release valve for venting air from the casing



Model SNC

Non-Clog Sump

Single Vane
CutterSingle Vane
Enclosed ImpellerVortex
Impeller

Sizes: 2" to 16"

Flows: 6,200 GPM

Heads: 135 Feet

Temp: 140° F

Services:

-  **Building Trades**
-  **Chemical**
-  **Construction**
-  **Food & Beverage**
-  **General Industry**
-  **Marine**
-  **Mining & Aggregate**
-  **Oil & Gas**
-  **Power Generation**
-  **Petro-Chemical**
-  **Pharmaceutical**
-  **Pulp & Paper**
-  **Water & Wastewater**

Motor Windings

- Air filled motor design for maximum life and lower operating temperatures
- Heavier duty class F insulation
- Motors available in single or three phase, 50 or 60 cycle and a variety of voltages
- Integral "Auto-Cut" overload protection that protects the motor from high amperage draw, locked impeller and/or high motor temperatures
- Single row outboard and double row inboard bearing for minimal shaft deflection and maximum mechanical seal life
- Optional moisture sensor in winding cavity for ultimate protection

Cable Base

- Integral compression fitting creating a secure mount to the motor frame
- Epoxy sealed to resist moisture from entering the motor
- Stripped back leads to prevent wicking of moisture into the motor

Motor Housing

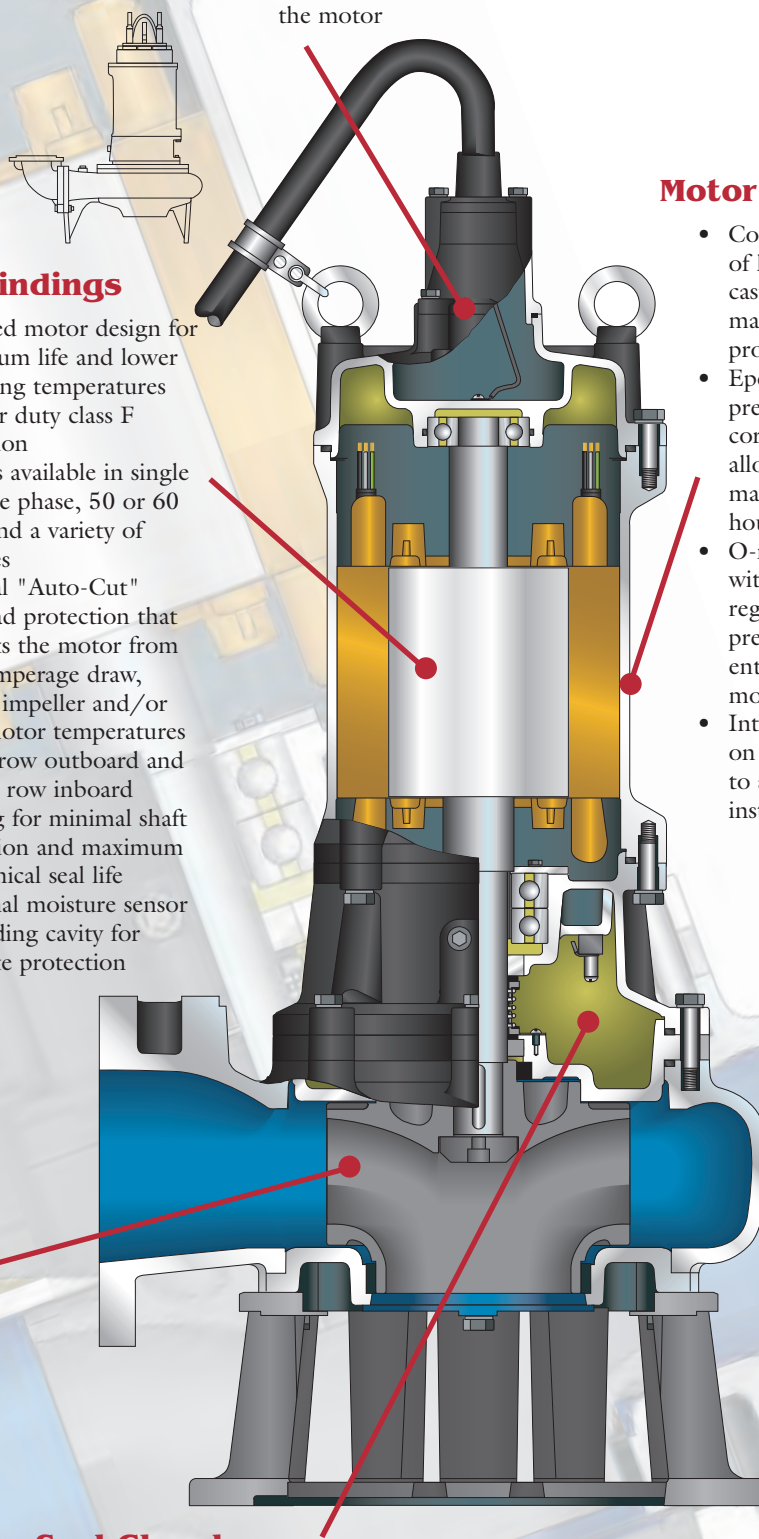
- Constructed out of high tensile cast iron for maximum protection
- Epoxy coated to prevent corrosion and allow for maximum housing life
- O-ring joints with machined registers to prevent the entrance of moisture
- Integral handle on top of motor to allow for easy installation

Casing & Impeller

- High tensile, heavy wall cast iron casing designed for long life
- Integral air release valve for venting air from the casing
- High tensile cast iron impeller designed to pass sewage slurry efficiency and effectively
- Impellers are available in semi-open, single vane cutter and enclosed geometries

Seal Chamber

- Double mechanical seal with Si-C/Si-C outboard and Carbon/Ceramic inboard face construction standard
- Integral seal moisture probe standard to indicate seal failure
- Oil lip seal mounted outside of the seal chamber stops large solids from gathering around the seal faces and stops stringy solids from adhering to mechanical seal spring hardware
- Oil lubricated for maximum protection



Model HD Split Case

Sizes: 2" to 32+"
 Flows: 18,000+ GPM
 Heads: 550 Feet
 Temp: 250° F

Services:

-  **Aerospace**
-  **Building Trades**
-  **Chemical**
-  **General Industry**
-  **Marine**
-  **Mining & Aggregate**
-  **Oil & Gas**
-  **Power Generation**
-  **Petro-Chemical**
-  **Pharmaceutical**
-  **Pulp & Paper**
-  **Semiconductor**
-  **Water & Wastewater**



Impellers

- Double suction minimizes axial thrust, enclosed, non-overloading bronze standard, other alloys available
- Expertly machined to customer specifications
- Fully balanced before assembly

Shaft Sleeves

- Standard - replaceable bronze sleeves protect shaft from wear and corrosion

Heavy Duty Casing

- Standard ASTM A48 Class 30 cast iron
- Horizontally split for easy access
- Casing has Thru-Bore which allows the removal of the entire rotating assembly, including both stuffing boxes, and the entire bearing housing assembly
- Heavy wall thickness to provide generous corrosion allowance and high working pressures
- Volute type casing with double suction provides suction and discharge nozzles cast integral with the lower half of the casing
- Suction and discharge connections are in lower half, allowing removal or inspection of upper half and rotating assembly without disturbing piping or driver
- Standard 250 lb case working pressure

Bearing Housings

- Cartridge bearing arrangement allows the removal of the entire bearing housing assembly with the rotating element.
- Both the inboard and outboard bearing can be completely replaced without disturbing any other part of the rotating assembly.
- Both bearings are protected by lip seals to keep contaminants out of bearing housing

Heavy Duty Outboard Bearing

- Heavy duty deep groove type ball thrust bearing, purge grease type lubrication standard
- Fixed rigidly in housing to take end thrust load
- Maintains impellers in their central position

Heavy Duty Inboard Bearing

- Heavy duty deep groove type ball bearing, purge grease type lubrication standard
- Carries radial load; free to move axially

Stuffing Boxes

- Packed with bronze lantern ring and gland
- Fully removable with the rotating assembly
- Both stuffing boxes have integral vortex suppressors to minimize inlet losses

Heavy Duty Shaft

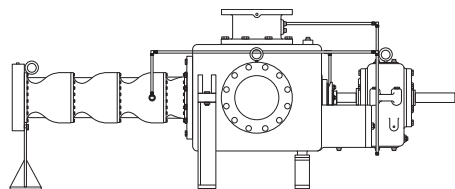
- Designed and sized especially for the pump and its applications
- 420 stainless steel shaft standard

Casing Wear Rings

- Standard bronze or other specified alloy
- Renewable, permits easy maintenance of proper running clearances
- Allows smooth transfer of fluid into impeller eye, increasing efficiency and lowering NPSH
- Pinned to prevent rotation

Model HT

Horizontal Turbine



Francis Enclosed
Impeller

Sizes: 3" to 10" Discharge
Flows: 2500 GPM
Heads: 2500 Feet
Temp: 400° F

Services:

-  **Aerospace**
-  **Building Trades**
-  **Chemical**
-  **Food & Beverage**
-  **General Industry**
-  **Marine**
-  **Mining & Aggregate**
-  **Oil & Gas**
-  **Power Generation**
-  **Petro-Chemical**
-  **Pharmaceutical**

Bowl Assembly

- O-ring bowl construction allows for dry-pit applications
- Modular bowl assembly allows for the swapping of the entire bowl assembly during servicing
- Heavy wall ASTM A48 class 30 cast iron construction with 304 stainless steel impellers or other specified material
- Reversed bowl assembly allows low pressure on suction chamber
- Impellers are expertly machined to customer specifications
- 416 stainless steel pump shaft
- Heavy duty bronze bowl bearings standard
- Keyed impellers standard

Thrust Bearing Housing

- Constructed of ASTM A48 class 30 cast iron
- Heavy duty, water cooled, duplex angular contact bearing assembly
- Ring oiled lubrication for longer life
- Dual bearing isolators minimize the entrance of contaminants
- Water cooling jacket fully surrounds the entire bearing assembly for uniform bearing cooling
- The entire cartridge style, two piece bearing housing with bearing assembly can be inspected, removed and/or replaced without complete pump disassembly

Seal Coupling

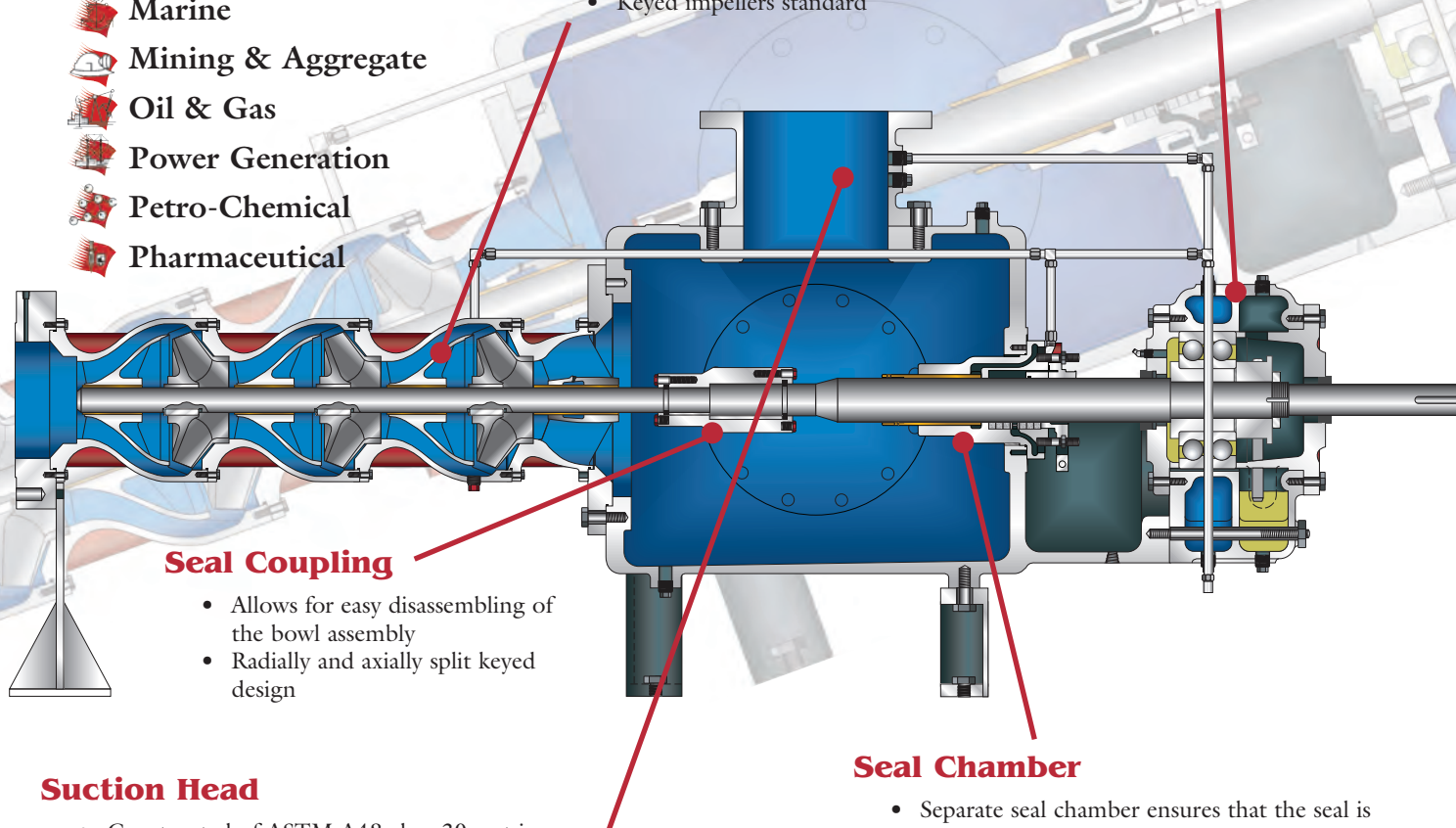
- Allows for easy disassembling of the bowl assembly
- Radially and axially split keyed design

Suction Head

- Constructed of ASTM A48 class 30 cast iron
- Three openings to allow for multiple suction mounting orientations to allow for increased flexibility in the field
- 125 pound rating standard with option for 250 pound
- Centerline supported for higher temperature applications
- Necessary vent and drain openings standard

Seal Chamber

- Separate seal chamber ensures that the seal is protected during operation
- Standard 820 series component mechanical seal
- Integral bronze throat bushing standard
- Optional packing, component or cartridge seals available
- Optional flush plans available upon request



6-10 Inch SEI Stamped Stainless Steel

Sizes: 6" to 10"
Flows: to 1100 GPM
Heads: to 2000 Feet

Services:

-  Building Trades
-  General Industry
-  Marine
-  Mining & Aggregate
-  OEM
-  Water & Waste Water

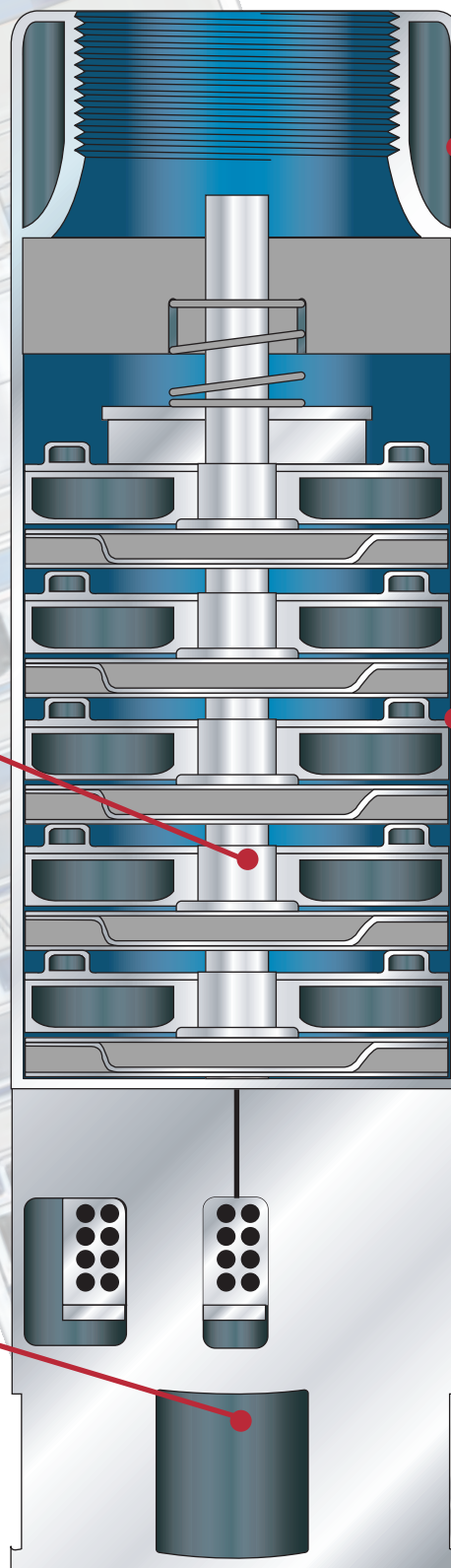


Impeller Stack

- 304 stainless steel construction designed for long life and corrosion protection
- Heavily shrouded fabricated, stamped stainless steel impellers/diffusers
- Optimally designed impellers and diffusers provide maximum efficiency
- Stainless steel wearing ring reduces wear from high thrust
- Oversized 316 stainless steel colletted shaft for maximum reliability

Motor Connection

- Oversized, splined, 410 stainless steel shaft designed for long life and corrosion resistance
- NEMA motor connection allowing for ease in mounting to a wide variety of submersible motor manufacturers.
- Integral strainer designed to protect the pump from pumping large solids.



Top End Bell

- 304 stainless steel top bearing for long life and reliability
- Internal, heavy duty, spring loaded, stainless steel check valve to protect the pumping assembly from water hammer and other pressure spikes.

Exterior Shell

- Constructed of 304 stainless steel for maximum corrosion resistance
- Unit can be supplied in 316 stainless steel upon request

Model VM

Vertical Multistage

Sizes: 1-1/4" to 4"
Flows: to 630 GPM
Heads: to 800 Feet

Services:

-  **Building Trades**
-  **General Industry**
-  **Marine**
-  **Mining & Aggregate**
-  **OEM**
-  **Water & Waste Water**



Upper Pump Housing

- Constructed of A48 class 30 cast iron, 304 or 316 stainless steel based on application
- External monitoring port for dry running detection
- Houses American-Marsh cartridge style mechanical seal for easy servicing in the field
- Two piece split coupling for easy connection to driver
- Integral coupling guard to protect user from rotating equipment
- Motor register machined to receive NEMA or IEC motors upon request

Exterior Shell

- Constructed of 304 stainless steel for maximum corrosion resistance
- Unit can be supplied in 316 stainless steel upon request

Lower Pump Housing

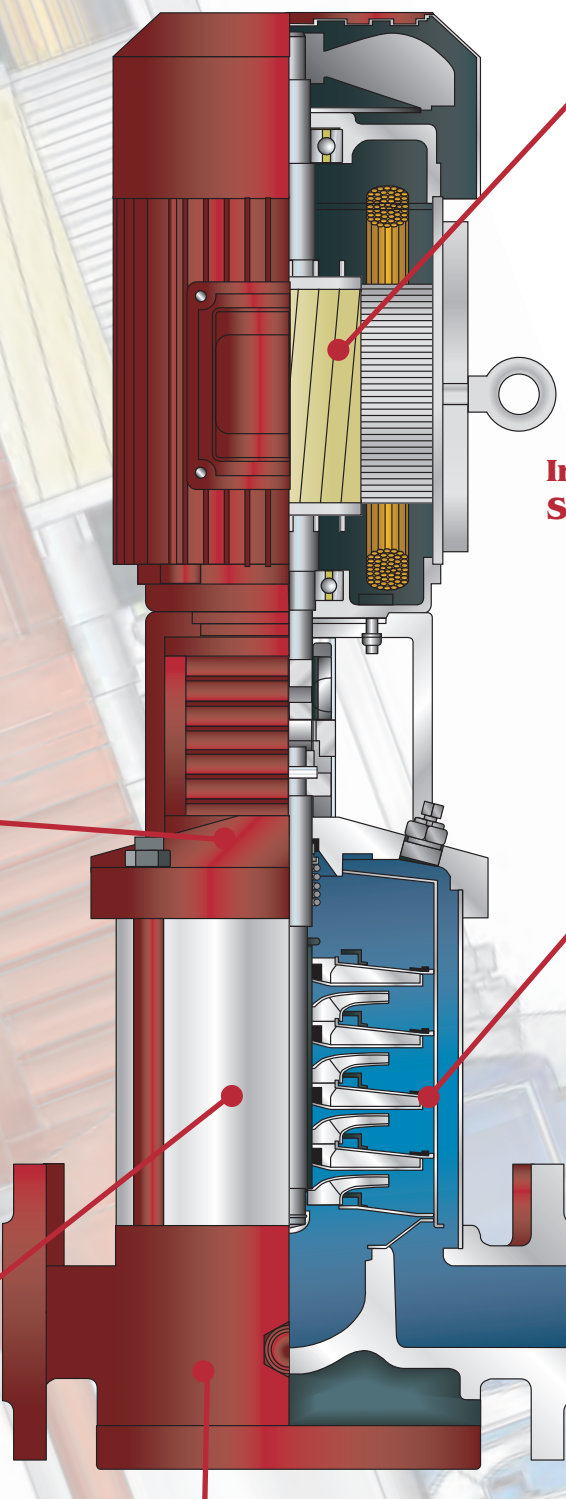
- Constructed of A48 class 30 cast iron, 304 or 316 stainless steel based on application
- Vertical inline suction and discharge gauge connections standard
- Heavy duty ANSI 250# suction and discharge flanges standard
- Optional victaulic, NPT, oval or metric flanges can be supplied upon request
- Heavy duty casted base standard to support entire pump assembly

Driver

- Pump unit is designed to accept a NEMA C-face motor standard
- Wide variety of motor enclosures available for application flexibility
- IEC motors can be used upon request

Impeller/Diffuser Stack Assembly

- Heavily shrouded impellers/diffusers are constructed of corrosion resistant stamped stainless steel for maximum life and durability
- Optimally designed impellers and diffusers provide maximum efficiency
- Wide choice of bearings based on fluid and application specifics
- Oversized and heavy duty 316 stainless steel shaft standard designed for unplanned loads
- Complete impeller/diffuser stack assembly can be removed and replaced to bring pump performance back up to factory tolerances



Model OLS Vertical Turbine

Flows To: 60,000 GPM
Heads To: 1400+ Feet
Settings To: 1000+ Feet

Markets:

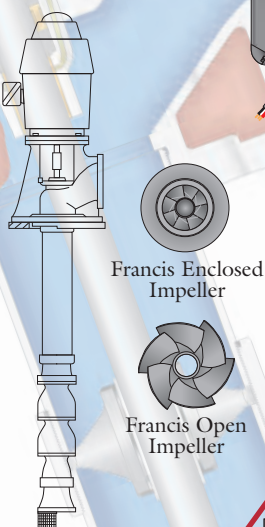
-  Building Trades
-  Chemical
-  Construction
-  General Industry
-  Marine
-  Mining & Aggregate
-  Oil & Gas
-  Power Generation
-  Petro-Chemical
-  Pharmaceutical
-  Pulp & Paper
-  Water & Wastewater

Discharge Head

- Heavy duty ASTM A48 class 30 cast iron construction standard (shown)
- Optional fabricated steel heads available
- High profile head allows for ease in servicing packing
- Carbon steel top shaft with stainless steel optional
- Headshaft coupling connects top shaft to headshaft
- Spacer couplings are available for use with mechanical seals
- Integral drip basin collects leakage from stuffing box

Bowl Assembly

- Heavy wall ASTM A48 class 30 cast iron construction with 304 investment cast stainless steel impellers
- Impellers are expertly machined to customer specifications
- Diffuser bowls through 18" have standard vitreous enamel lining
- 416 stainless steel bowlshaft is standard
- Bronze bowl bearings standard
- Tapered impeller collets are used on bowls through 18" with keyed impellers used on larger sizes
- Heavy duty grease packed suction case bearing with sand collar



Motor

- Vertical hollowshaft or solid shaft
- Can be supplied with a non-reverse ratchet or self-release coupling
- Top adjusting nut allows user to adjust lateral setting
- Bearing designed to carry thrust loads and is oil lubricated
- Available in WP-I, WP-II, TEFC & Explosion-Proof enclosures
- Optional right angle gear drives

Stuffing Box

- Packed with lantern ring standard
- Grease port for throat bushing lubrication
- High pressure stuffing boxes and shaft sleeves are optional

Column Assembly

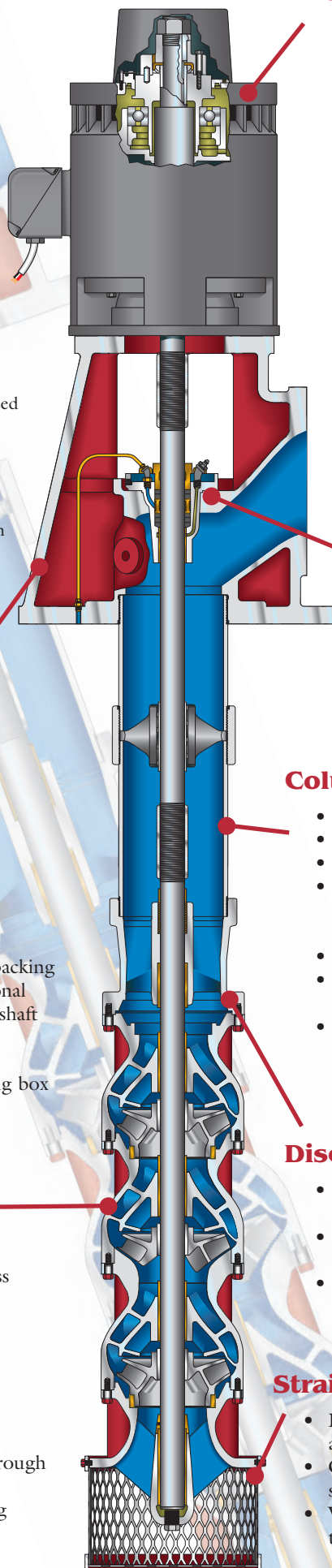
- Heavy wall carbon steel construction
- Larger diameter, steel shaft material
- Heat straightened shafting standard
- Investment cast 304 stainless steel bearing retainer with cutlass rubber insert
- Product lubricated lineshaft bearings
- Threaded column is standard through 12" and flanged for larger sizes
- Overall length is engineered to customer specifications

Discharge Case

- Heavy duty ductile iron construction standard
- Two bronze bearings for additional support
- Additional vanes for minimizing turbulence thus improving efficiency

Strainer

- Basket or cone strainers are available upon request
- Galvanized steel, bronze or stainless steel materials are available
- Vortex suppressors can be supplied to minimize inlet losses

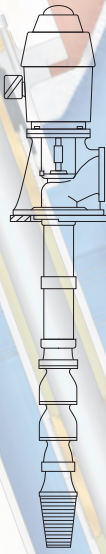


Model ELS Vertical Turbine

Flows To: 60,000 GPM
Heads To: 1400+ Feet
Settings To: 1000+ Feet

Markets:

-  Building Trades
-  Chemical
-  Construction
-  General Industry
-  Marine
-  Mining & Aggregate
-  Oil & Gas
-  Power Generation
-  Petro-Chemical
-  Pharmaceutical
-  Pulp & Paper
-  Water & Wastewater



Francis Enclosed Impeller



Francis Open Impeller

Tension Tube Assembly

- Allows the tensioning of the enclosing tube to ensure proper lineshaft bearing alignment
- Allows for the means of using oil, grease or water for enclosed lineshaft lubrication
- Constructed of high quality bronze to resist corrosion and prevent "freezing" to the enclosing tube

Discharge Case

- Heavy duty ductile iron construction standard
- Tubing adapter connects inner column assembly to bowl assembly
- Two bypass ports with dual lip seals prevent pressurized fluid from the bowl assembly from entering the enclosing tube
- Additional vanes for minimizing turbulence thus improving efficiency

Bowl Assembly

- Heavy wall ASTM A48 class 30 cast iron construction with 304 investment cast stainless steel impellers
- Impellers are expertly machined to customer specifications
- Diffuser bowls through 18" have standard vitreous enamel lining
- Impellers are available in enclosed or semi-open construction
- 416 stainless steel bowlshaft is standard
- Bronze bowl bearings standard
- Tapered impeller collets are used on bowls through 18" with keyed impellers used on larger sizes
- Heavy duty grease packed suction case bearing with sand collar

Strainer

- Basket or cone strainers are available upon request
- Galvanized steel, bronze or stainless steel materials are available
- Vortex suppressors can be supplied to minimize inlet losses

Motor

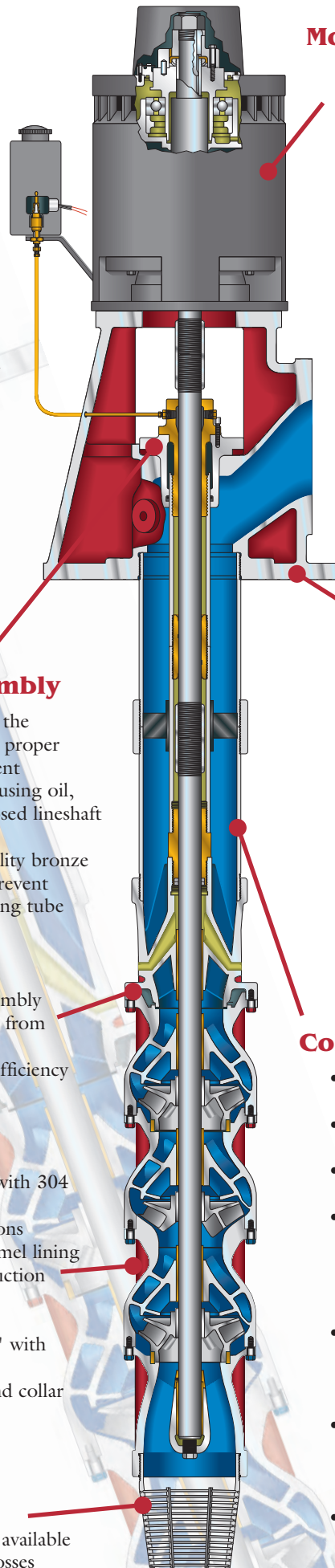
- Vertical hollowshaft or solid shaft
- Can be supplied with a non-reverse ratchet or self-release coupling
- Top adjusting nut allows user to adjust lateral setting
- Bearing designed to carry thrust loads and is oil lubricated
- Available in WP-I, WP-II, TEFC & Explosion-Proof enclosures
- Optional right angle gear drives

Discharge Head

- Heavy duty ASTM A48 class 30 cast iron construction standard (shown)
- Optional fabricated steel heads available
- Carbon steel top shaft with stainless steel optional
- Headshaft coupling connects top shaft to headshaft
- Spacer couplings are available for use with mechanical seals
- Integral drip basin collects leakage from stuffing box

Column Assembly

- Heavy wall carbon steel construction
- Larger diameter, steel shaft material
- Heat straightened shafting standard
- Lineshaft bearings are spaced at five foot intervals and are constructed of high quality bronze
- Machined helical grooves in lineshaft bearing ensure uniform lubrication over the entire bearing surface
- The shaft enclosing tube isolates all shafting and bearings from the pumped fluid
- Overall length is engineered to customer specifications



Model SUB Vertical Turbine

Flows To: 10,000 GPM
 Heads To: 1400+ GPM
 Settings To: 1000+ Feet

Markets:

-  Building Trades
-  Chemical
-  Construction
-  General Industry
-  Marine
-  Mining & Aggregate
-  Oil & Gas
-  Power Generation
-  Petro-Chemical
-  Pharmaceutical
-  Pulp & Paper
-  Water & Wastewater



Discharge Case

- Heavy duty ductile iron construction standard
- Two bronze bearings for additional support
- Additional vanes for minimizing turbulence thus improving efficiency

Cable Guard

- Protect the motor leads during installation
- Manufactured of stainless steel to resist corrosion

Bowl Assembly

- Heavy wall ASTM A48 class 30 cast iron construction with 304 investment cast stainless steel impellers
- Impellers are expertly machined to customer specifications
- Diffuser bowls through 18" have standard vitreous enamel lining
- Impellers are available in enclosed or semi-open construction
- 416 stainless steel bowlshaft is standard
- Bronze bowl bearings standard
- Tapered impeller collets are used on bowls through 18" with keyed impellers used on larger sizes

Motor

- Fully sealed with integral downthrust bearing
- Stainless steel motor shaft extension to resist corrosion
- An integral mechanical seal keeps water and contaminants out of motor casing

Discharge Elbow & Surface Plate

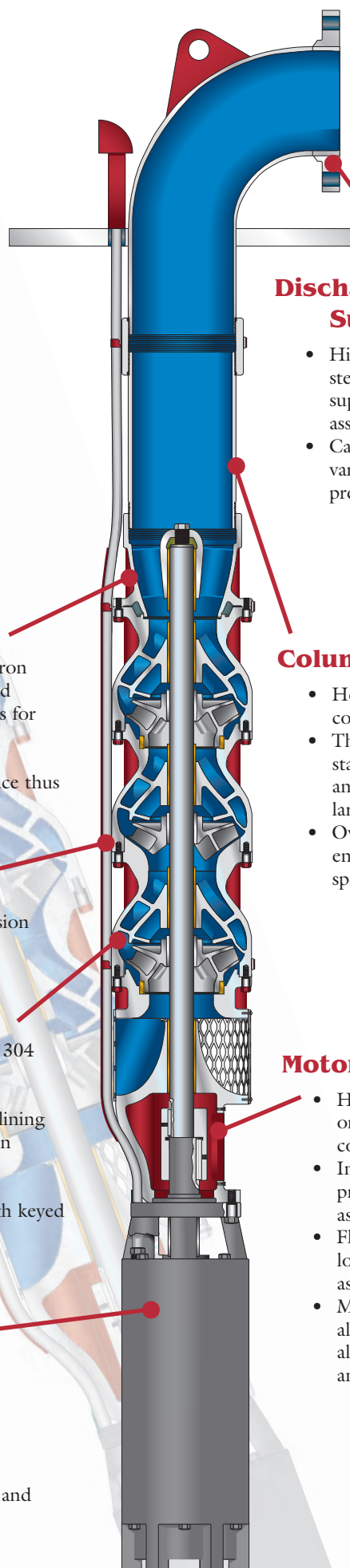
- High strength fabricated steel designed to support entire pump assembly
- Can be supplied with a variety of flange pressure ratings

Column Assembly

- Heavy wall carbon steel construction
- Threaded column is standard through 12" and flanged for larger sizes
- Overall length is engineered to customer specifications

Motor Bracket

- Heavy duty ductile iron or fabricated steel construction standard
- Integral strainer to protect the bowl assembly
- Flared inlet to reduce losses into the bowl assembly
- Machined register to allow for proper alignment of the motor and bowl assembly



Model MF & AF Mixed & Axial Flow

Flows To: 300,000 GPM

Heads To: 100+ Feet

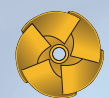
Settings To: 100+ Feet

Markets:

-  **Building Trades**
-  **Chemical**
-  **Construction**
-  **General Industry**
-  **Marine**
-  **Mining & Aggregate**
-  **Oil & Gas**
-  **Power Generation**
-  **Petro-Chemical**
-  **Pharmaceutical**
-  **Pulp & Paper**
-  **Water & Wastewater**



Axial Flow Impeller



Mixed Flow Impeller

Tension Tube Assembly

- Allows the tensioning of the enclosing tube to ensure proper lineshaft bearing alignment
- Allows for the means of using oil, grease or water for enclosed lineshaft lubrication
- Constructed of high quality bronze to resist corrosion and prevent "freezing" to the enclosing tube

Column Assembly

- Heavy wall carbon steel construction
- Larger diameter, steel shaft material
- Heat straightened shafting standard
- Lineshaft bearings are spaced at five foot intervals and are constructed of high quality bronze
- Machined helical grooves in lineshaft bearing ensure uniform lubrication over the entire bearing surface
- The shaft enclosing tube isolates all shafting and bearings from the pumped fluid
- Overall length is engineered to customer specifications

Motor

- Vertical hollowshaft or solid shaft
- Can be supplied with a non-reverse ratchet or self-release coupling
- Top adjusting nut allows user to adjust lateral setting
- Bearing designed to carry thrust loads and is oil lubricated
- Available in WP-I, WP-II, TEFC & Explosion-Proof enclosures
- Optional right angle gear drives

Discharge Head

- Fabricated steel above or below ground discharge head
- Carbon steel top shaft with stainless steel optional
- Headshaft coupling connects top shaft to headshaft
- Spacer couplings are available for use with mechanical seals
- Integral drip basin collects leakage from stuffing box

Discharge Case

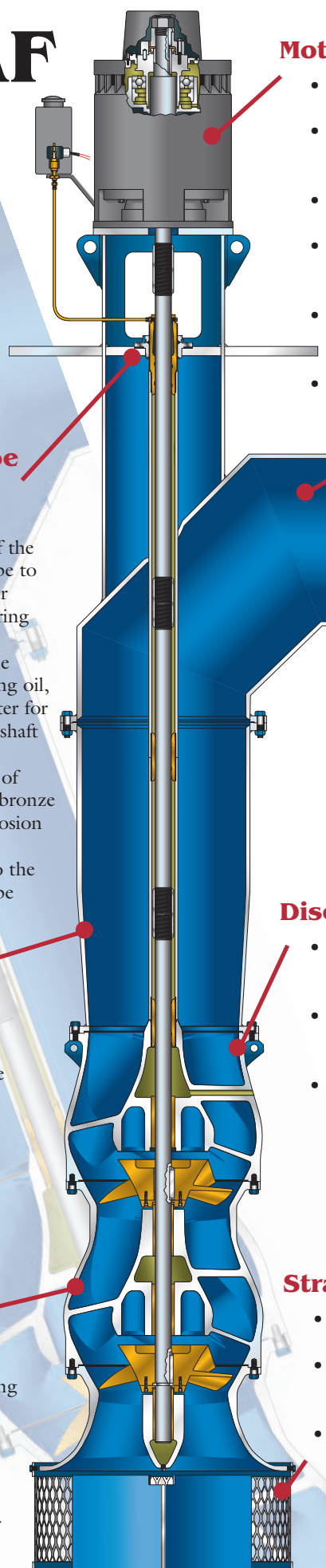
- Heavy duty ASTM A48 class 30 cast iron construction standard
- Tubing adapter connects inner column assembly to bowl assembly
- Two bypass ports with dual lip seals prevent pressurized fluid from the bowl assembly from entering the enclosing tube

Bowl Assembly

- Heavy wall ASTM A48 class 30 cast iron construction with bronze impellers
- Impellers are expertly machined to customer specifications
- Diffuser bowls through 18" have standard vitreous enamel lining
- Impellers are available in enclosed or semi-open construction
- 416 stainless steel bowlshaft is standard
- Bronze bowl bearings standard
- Tapered impeller collets are used on bowls through 18" with keyed impellers used on larger sizes
- Heavy duty grease packed suction case bearing with sand collar

Strainer

- Basket strainers are available upon request
- Galvanized steel, bronze or stainless steel materials are available
- Vortex suppressors can be supplied to minimize inlet losses



Model SST Self-Priming Centrifugal

Flows To: 3,400 GPM
Heads To: 120 Feet
Solids To: 3" Diameter
Temps To: 180° F

Markets:

-  **Chemical**
-  **Construction**
-  **General Industry**
-  **Marine**
-  **Mining & Aggregate**
-  **OEM**
-  **Power Generation**
-  **Petro-Chemical**
-  **Pulp & Paper**
-  **Water & Wastewater**

Suction Inlet

- Heavy duty check valve to keep liquid in the casing when the pump stops
- Check valve can be removed without disturbing suction piping
- Oil resistant with canvas reinforcement for durability
- Heavy, integral valve weight to ensure that the valve remains closed when the pump is off

Removable Cleanout Plate

- Quick access to the interior of the pump without disturbing suction or discharge piping
- The impeller, wear plate and check valve can be inspected and/or replaced by removing the cleanout plate
- Clogs can be removed easily
- Integral and replaceable, front & rear, oil and abrasion-resistant, rubber coated wear plate
- Integral pressure relief valve to protect the pump and casing from over pressurizing
- Running clearances can be adjusted by using integral hardware on the cover plate



Casing

- Standard ASTM A48 close grained cast iron
- Can be supplied in Novolloy abrasion resistant material, all bronze or all 316 stainless steel
- Heavy wall thickness to provide generous corrosion allowance
- Large priming chamber for quick prime times and large solids passing
- Oversized filling port for quick filling of the casing
- Bolt on suction and discharge spool pieces to meet jobsite requirements
- Large, oversized cleanout plate
- All ports with handles which can be opened without special tools
- Provisions for casing heater for use in cold weather applications
- All bolted connections utilize casing studs for ease in maintenance

Impeller

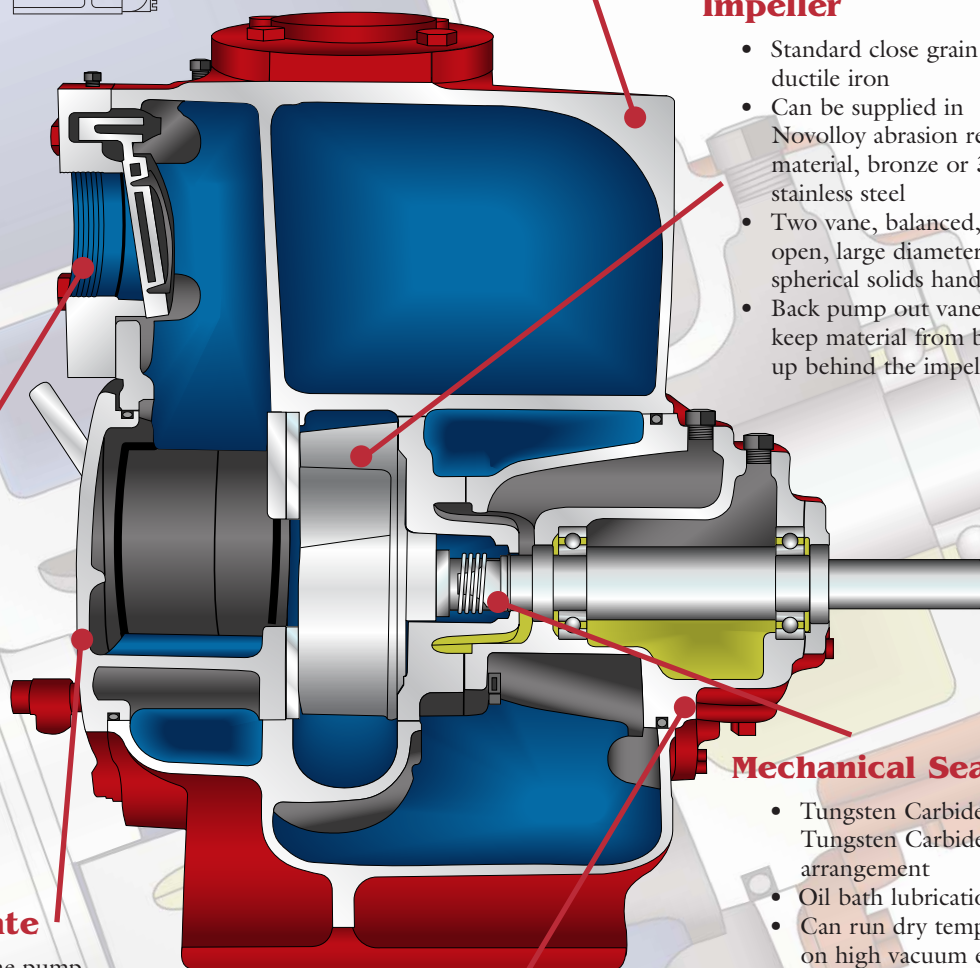
- Standard close grain ductile iron
- Can be supplied in Novolloy abrasion resistant material, bronze or 316 stainless steel
- Two vane, balanced, semi-open, large diameter spherical solids handling
- Back pump out vanes to keep material from building up behind the impeller

Mechanical Seal

- Tungsten Carbide vs. Tungsten Carbide face arrangement
- Oil bath lubrication
- Can run dry temporarily on high vacuum even when pumping highly abrasive liquids
- Integral stainless steel shaft sleeve

Power Frame

- Standard ASTM A48 close grained cast iron
- Back pull out feature allows for ease in service without disturbing suction or discharge piping
- Two independent oil reservoirs, one for the bearings & one for the mechanical seal
- Integral dual oil level eyes for oil level indication in the bearing and seal chamber
- Heavy duty, oil lubricated, oversized bearings for direct drive or V-belt applications
- Heavy duty shaft bored and tapped to facilitate assembly of couplings or pulleys



6, 8 & 10 Inch SEI Motors

3-Wire Single/Three Phase

Sizes: Single Phase

5 to 15 HP

Three Phase

5 to 250 HP

Voltages: 230, 380, 460 & 575 Volt

Frequencies: 50 & 60 Hz

Services:

-  **Building Trades**
-  **General Industry**
-  **Marine**
-  **Mining & Aggregate**
-  **OEM**
-  **Water & Waste Water**

Top End Bell

- Integral NBR sand boot to reduce sand entrance into motor
- The mounting flange on top of the motor meets NEMA dimensional standards
- The end bell is constructed of nickel plated cast iron clad in 304 stainless steel for maximum corrosion protection
- Double lip seal construction to minimize contaminants from entering the motor
- Permanently installed type, PVC insulated, 3/6 conductor motor lead standard

Bottom End Bell

- Houses high thrust, six shoe, Kingsbury-type thrust bearing constructed of stainless steel and carbon graphite
- Integral pressure equalizing diaphragm designed specifically for 6 and 8 inch motor applications
- The end bell is constructed of nickel plated cast iron clad in 304 stainless steel for maximum corrosion protection

Exterior Shell

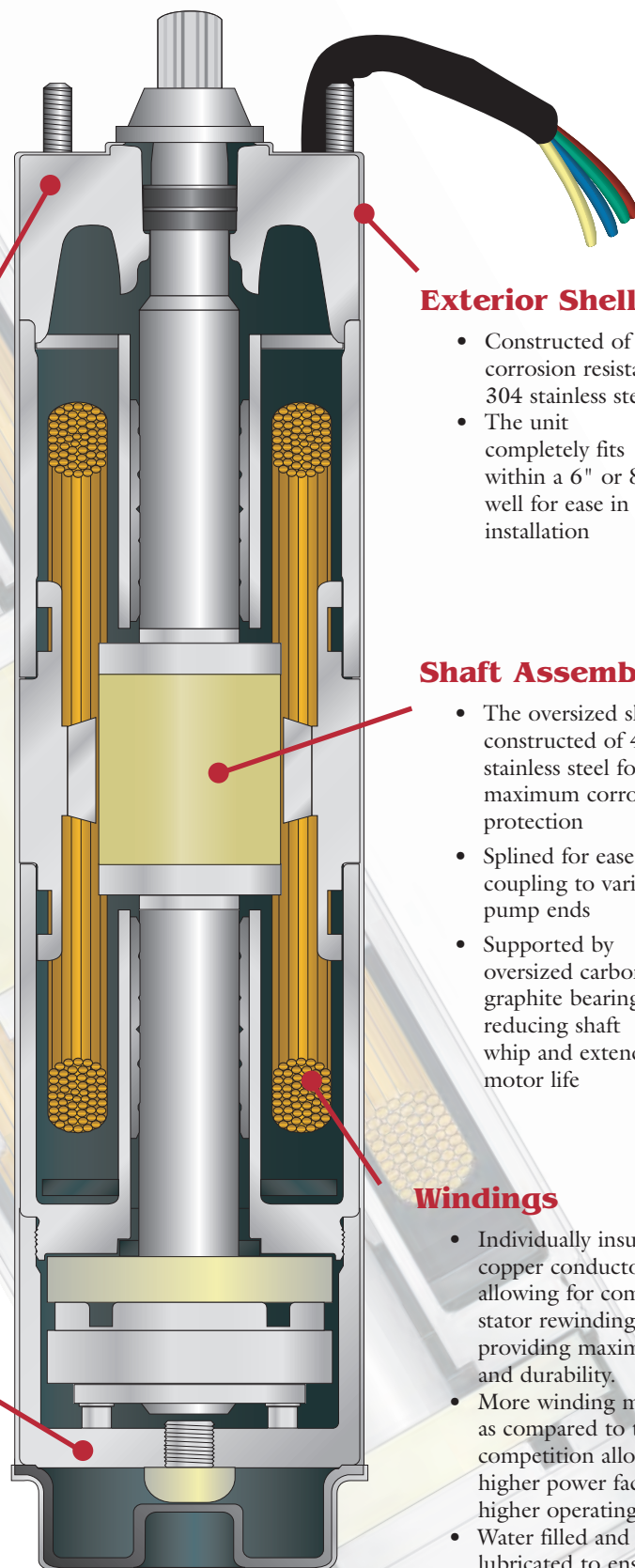
- Constructed of corrosion resistant 304 stainless steel
- The unit completely fits within a 6" or 8" well for ease in installation

Shaft Assembly

- The oversized shaft is constructed of 431 stainless steel for maximum corrosion protection
- Splined for ease in coupling to various pump ends
- Supported by oversized carbon graphite bearings reducing shaft whip and extending motor life

Windings

- Individually insulated copper conductors allowing for complete stator rewinding providing maximum life and durability.
- More winding material as compared to the competition allowing for higher power factors and higher operating speeds
- Water filled and lubricated to ensure long motor life





American-Marsh Pumps, one of the oldest pump lines in America, are pump products steeped in heritage. Since 1873, the American-Marsh line of pumps have withstood the test of time. Over the last 140 years, over 100 varieties of pumps have been designed and built. From steam pumps to centrifugal pumps, American-Marsh pumps have been built to meet the ever changing requirements of society. Over the last century, through continuous product development, more American-Marsh models have been retired than most other pump manufacturers have ever produced. Hundreds of thousands of pumps have been built, all designed with long life in mind, allowing many of them to last over 50 years in service.

Today, look to us for the complete offering of American-Marsh Pumps, consisting of 18 product lines to serve your every need. Whether your need is a self-priming diaphragm pump, a stainless steel vertical sump pump, or anything in between, American-Marsh Pumps will provide you with a durable, high-quality solution.

Build a world class quality product, and back it with knowledgeable customer service staff just as experienced and proven as our pumps.

Take a specialized product, and provide a simple process to obtain the information and delivery you require. Our heritage of quality pumps goes back to 1873 and continues today, emphasizing durability in the design and construction of every pump we make. American Marsh Pumps, an American tradition since 1873.

Our entire product family reflects years of customer input, product upgrades, redesign and new product development...all focused on meeting and exceeding our customers expectations. For over 140 years, the American-Marsh Pump designs have proven their durability by withstanding the test of time. Our commitment to customer service and satisfaction will ensure that the American-Marsh Pumps Product line will be around for the next 140 years.



OTHER PUMP PRODUCTS

SPLIT CASE

To 30+ " Discharge
30,000+ GPM, 550'

VERTICAL TURBINE

To 42+ " Bowl
45,000+ GPM, 1400+'

SELF PRIMER

To 12 " Discharge
5000 GPM, 200'

ANSI

To 8 " Discharge
7400 GPM, 985'

END SUCTION

To 12 " Discharge
9000 GPM,

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