



AMERICAN-MARSH PUMPS

"DURABILITY BY DESIGN SINCE 1873"

NOVO Series Mobile Pumping Products



140 Years of Pump Manufacturing

American-Marsh Pumps, one of the oldest pump manufacturers in the world, continues to manufacture world-class products. Over our 140 year history, we have been the standard of Durability by Design. Our products have been built to meet the ever-changing requirements of society.

American-Marsh Pumps has manufactured hundreds of thousands of pumps over our 140 years of existence. During that time, after sales support is paramount to maintaining our customers. The NOVO brand of products have been with American-Marsh Pumps since 1930 and continue today with new and exciting additions. NOVO products are available with venturi or vacuum pump Pronto-Priming systems allowing these products to pull 25 foot suction lifts. Mobile or stationary units are available and can be powered by electric or engine drivers.

NOVO products are available in a variety of pump types allowing hydraulic coverages that meet your pumping requirements. NCE units feature a two vane, solids handling impeller that can pass solids to 7 inches in diameter. SSTE units also have two vane, solids handling impellers but are a wet prime, eliminating the need for additional priming equipment. ADE units are self-priming diaphragm units that do not require any external priming systems and can run dry indefinitely. All of these units are run dry capable standard, meeting stringent job site requirements.

American-Marsh Pumps has a very experienced and capable engineering design group. The NOVO group of products also includes products not available from any other pump manufacturers. The HDE product line features the only industry run dry, double suction split case. This product is engineered to run dry and also has reduced NPSHr due to the double suction impeller design. The HTE product is also a unique and proprietary product that utilizes our high efficiency, vertical turbine product line. With this product offering, discharge heads are available in our product line that are simply not available anywhere else. Both of these products are very unique to our offering and greatly expand the available NOVO product line.

The NOVO product line is designed with durability in mind. These products can pump clear liquids, industrial solids, storm water or sewage with heavy solids. Products can be poured in many different metallurgies from ductile iron through duplex stainless steels. This product line compliments the 140 years of product offering American-Marsh Pumps has manufactured. It utilizes many different American-Marsh products and continues to engineer them for the ever changing markets throughout the world.

PMG Services - Corporate Service Centers

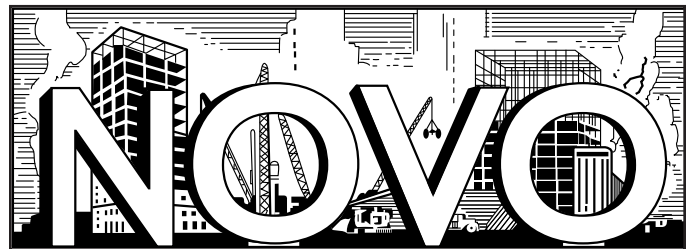


American-Marsh Pumps Corporate PMG Service Centers provide the customer with superior repair and service capabilities. Our corporate PMG Service Center has the latest certifications including ISO 17025, ISO 9001:2008 and complete Factory Mutual (FM) certifications. Certifications and calibrations of this type are mandatory when considering on whom to choose for your next repair. We have been a pump manufacturer for 140 years, understand the theory behind pumping equipment and are experts in their application and service. Trust your repair to a company that knows their product and stands behind it.

PMG Service Centers are available throughout North America. All PMG Service Centers have lathes, hydrostatic test tanks, hydraulic presses, shaft straightening tables and build tables to expeditiously take care of your repair. Our Tennessee facility, in addition to this equipment, has full certified performance test capabilities.

Service Center Capabilities

- Factory personnel have the tools, training and technology to do the job right, the first time
- American-Marsh Pump facilities exceed 32 acres and over 260,000 square feet
- Lathes, milling machines, shaft straightening, hydraulic presses, motor diagnostic equipment and build tables designed to repair any manufacturers equipment
- Full pump customization including machining special wear ring clearances, casing and impeller weld repair, Class III impeller polishing, media blasting and the application of custom coatings
- Very quick turnaround
- Rebowling of any customer's vertical turbine pump
- Replacement and upgrade capability for shafting and bearing installations
- Full hydrostatic and performance testing capability



Model NCE Pump

Sizes: 3" to 14"
Flows: 10,000+ GPM
Heads: 500+ Feet
Temp: 250° F

Markets:

-  Construction
-  General Industry
-  Marine
-  Mining & Aggregate
-  OEM
-  Oil & Gas
-  Power Generation
-  Petro-Chemical
-  Water & Wastewater

Two-Vane Enclosed Impeller

Impeller

- Investment cast of 304 stainless steel
- Two vane, enclosed high efficiency design
- Additional models feature multi-vane design for very high heads
- Front and rear pump out vanes to stop solids from gathering around the impeller
- Spherical solids passing capability through 7 inches
- Expertly machined to customer specifications
- Fully balanced before assembly

Pronto-Prime

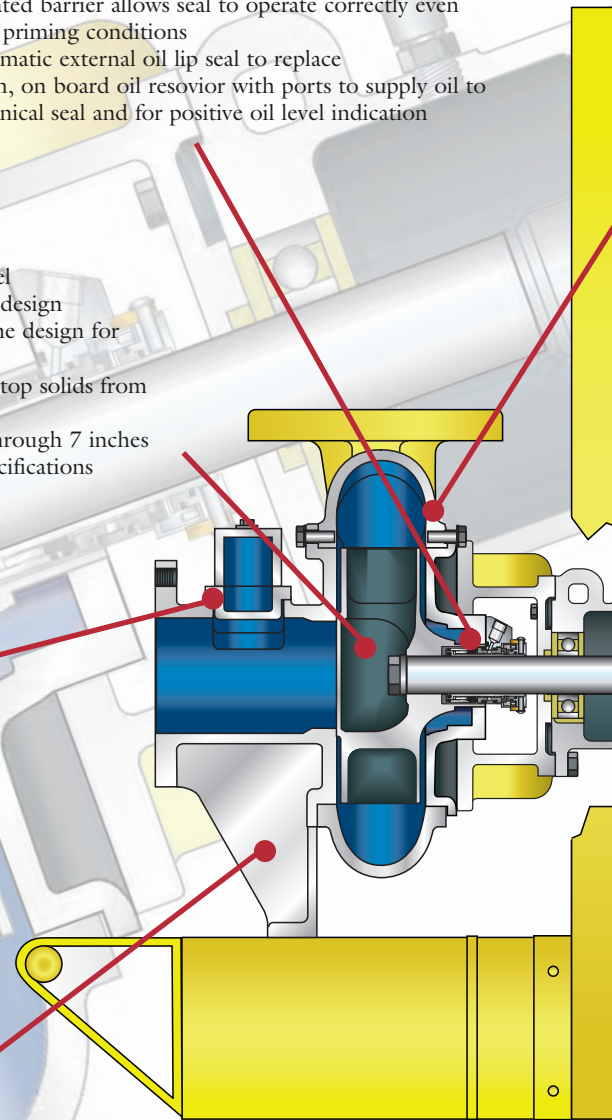
- Venturi or vacuum pump Pronto-Prime priming system
- Fully automatic priming system that handles combinations of liquid and gas
- Rapid repriming
- Full solids handling
- Compressor driven air can be supplied from an onboard engine compressor or externally from an outside source

Suction Cover

- Standard high tensile ductile iron
- Casted integral foot for casing support regardless of discharge orientation
- Heavy wall thickness to provide generous corrosion allowance
- Oversized fluid passageway designed specifically to handle fluids with large spherical solids
- Large oversized clean out cover to provide visibility and accessibility to the impeller vanes
- Integral drain and gauge taps

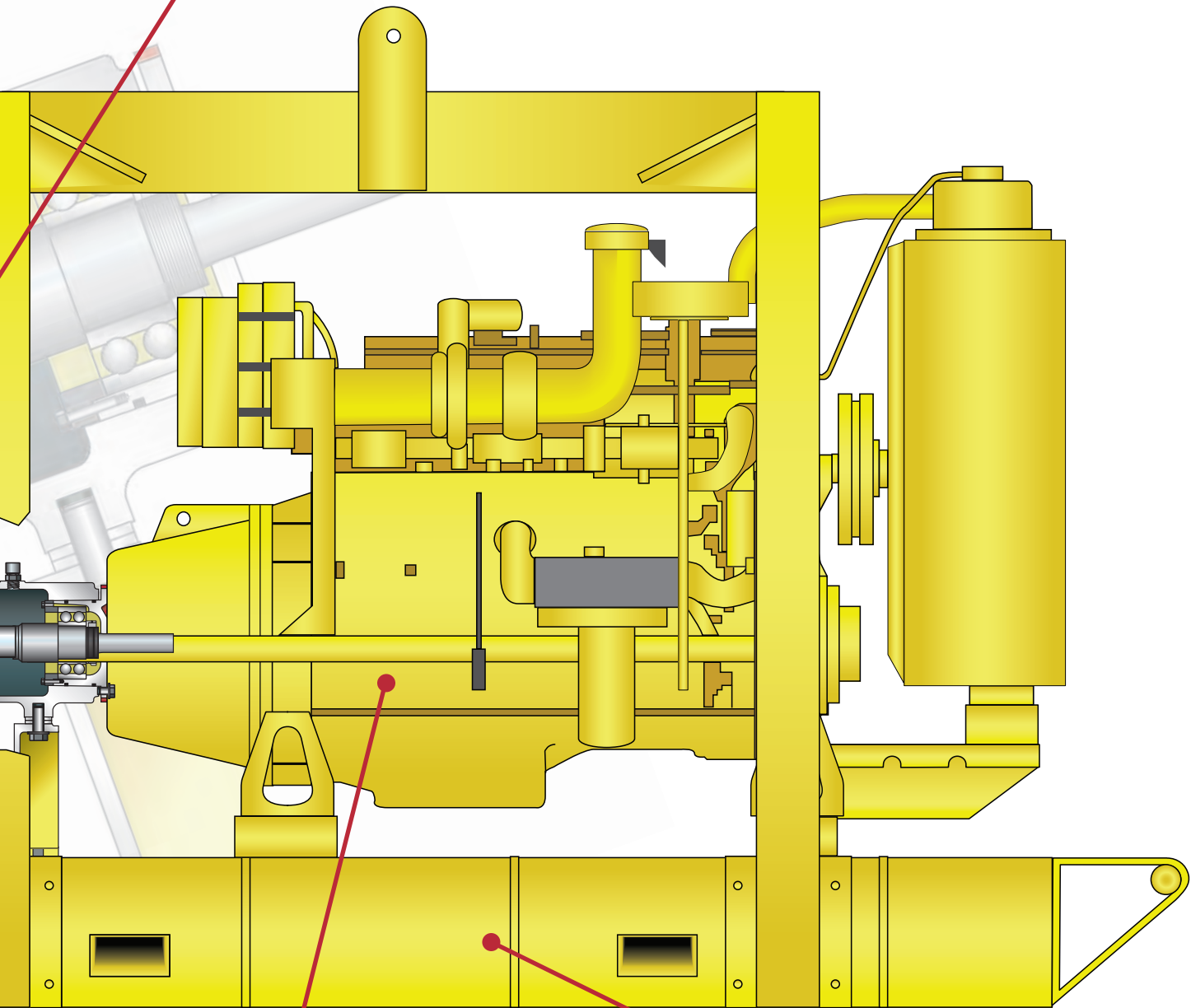
Seal Chamber

- Utilizes American-Marsh's proven 860B double cartridge seal
- Multi-spring, o-ring balanced design is excellent on high vacuum applications perfectly matched with the Pronto-Prime priming system
- Hard seal face construction for reliability and durability in the field
- Oil lubricated barrier allows seal to operate correctly even under dry priming conditions
- No problematic external oil lip seal to replace
- One gallon, on board oil reservoir with ports to supply oil to the mechanical seal and for positive oil level indication



Heavy Duty Casing

- Standard high tensile ductile iron
- Heavy wall thickness to provide generous corrosion allowance
- High efficiency tangential discharge casing with the ability to rotate the discharge position to meet piping requirements in the field
- Designed specifically to handle fluids with large spherical solids present
- Integral drain and gauge taps standard
- Large oversized clean out cover on discharge portion of the casing to provide visibility and accessibility to the impeller vanes and casing cutwater



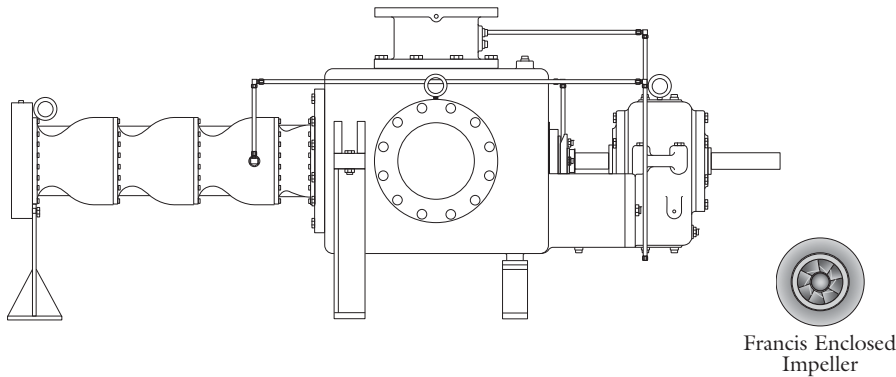
Driver

- Diesel, gasoline or electric drivers are available
- On board compressors available standard with options for external upon request
- A wide variety of engine manufacturers are available allowing you to keep similar units in your existing fleet

Base Assembly

- Stationary or mobile designs available
- Integral fuel tank to allow the engine assembly to run for a minimum of 8 hours
- Base assemblies can be supplied with or without containment packages
- Mobile packages can be supplied with DOT options to suite the customer
- Depending on package sizes, single and double axle trailers are available

Model HTE Pump



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

Markets:

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

Suction Head

- Constructed of ASTM A48 class 30 cast iron
- Three openings to allow for multiple suction mounting orientations 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

Bowl Assembly

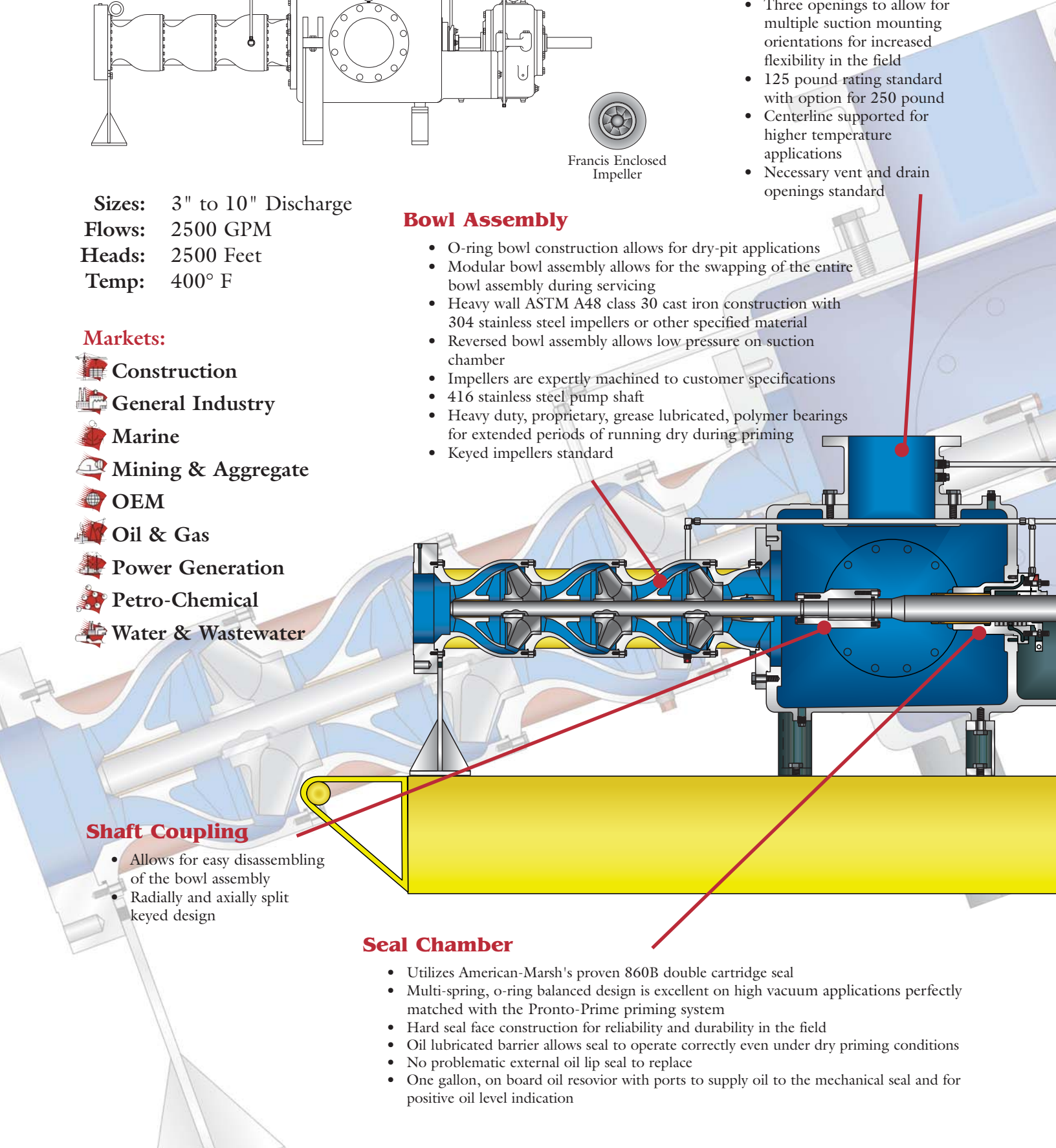
- O-ring bowl construction allows for dry-pit applications
- Modular bowl assembly allows for the swapping of the entire bowl assembly during servicing
- Heavy wall ASTM A48 class 30 cast iron construction with 304 stainless steel impellers or other specified material
- Reversed bowl assembly allows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

Shaft Coupling

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

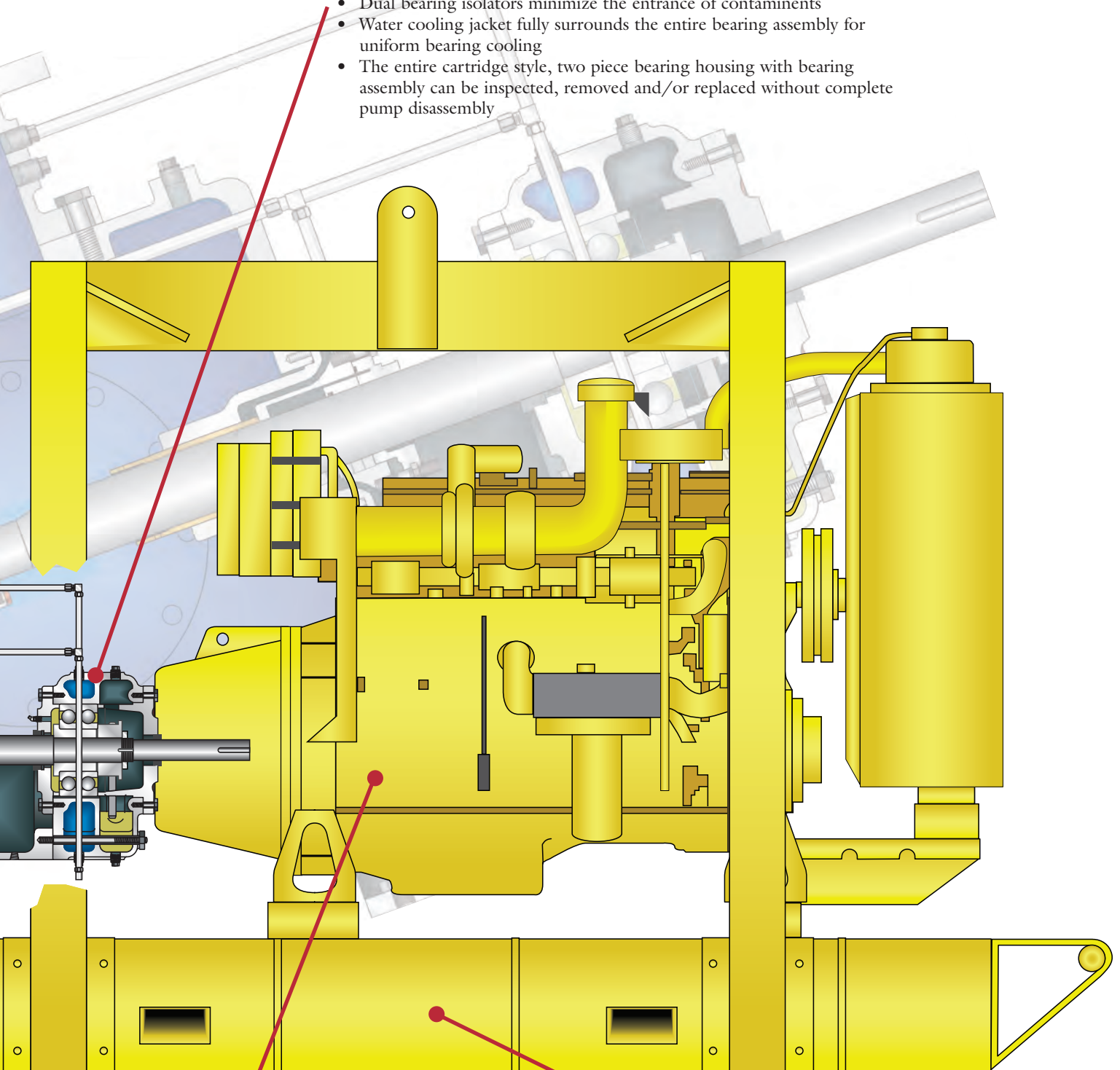
Seal Chamber

- Utilizes American-Marsh's proven 860B double cartridge seal
- Multi-spring, o-ring balanced design is excellent on high vacuum applications perfectly matched with the Pronto-Prime priming system
- Hard seal face construction for reliability and durability in the field
- Oil lubricated barrier allows seal to operate correctly even under dry priming conditions
- No problematic external oil lip seal to replace
- One gallon, on board oil reservoir with ports to supply oil to the mechanical seal and for positive oil level indication



Thrust Bearing Housing

- Constructed of ASTM A48 class 30 cast iron
- Heavy duty, water cooled, duplex angular contact bearing assembly
- Ring oiled or grease 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



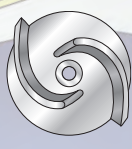
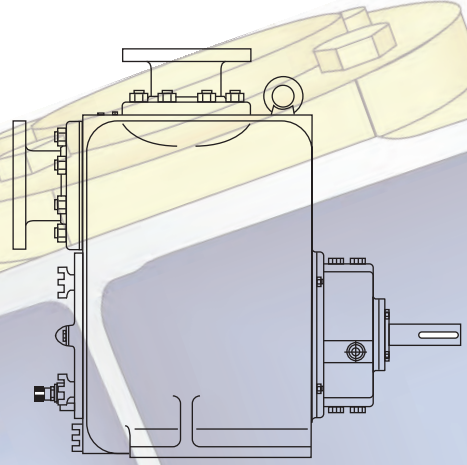
Driver

- Diesel, gasoline or electric drivers are available
- On board compressors available standard with options for external upon request
- A wide variety of engine manufacturers are available allowing you to keep similar units in your existing fleet

Base Assembly

- Stationary or mobile designs available
- Integral fuel tank to allow the engine assembly to run for a minimum of 8 hours
- Base assemblies can be supplied with or without containment packages
- Mobile packages can be supplied with DOT options to suite the customer
- Depending on package sizes, single and double axle trailers are available

Model SSTE & SSUE Pump



Impeller

- Standard ASTM A48 close grained cast iron
- Can be supplied in Novolloy abrasion resistant material, bronze or 316 stainless steel
- Two vane, balanced, semi-open, large diameter spherical solids handling
- Multi-vane, high head impellers are available in the SSUE offering increasing product offering
- Back pump out vanes to keep material from building up behind the impeller

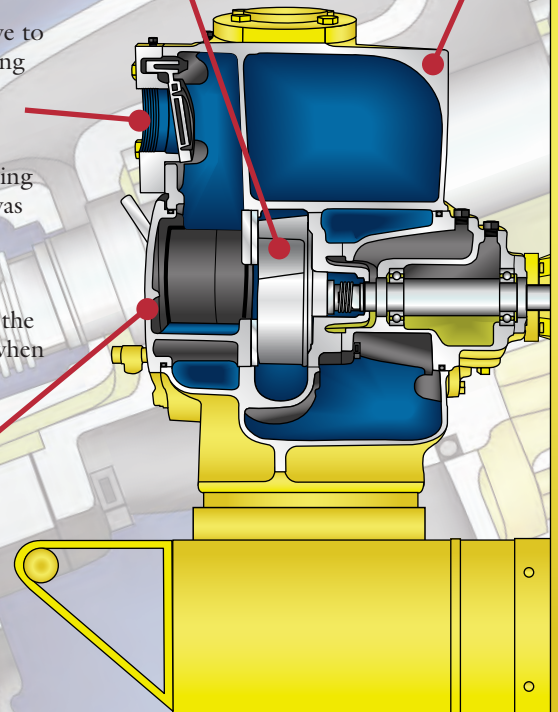
Flows To: 6,400 GPM
Heads To: 200 Feet
Solids To: 3" Diameter
Temps To: 180° F

Markets:

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

Suction Inlet

- Heavy duty check valve to keep liquid in the casing when the pump is off
- 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

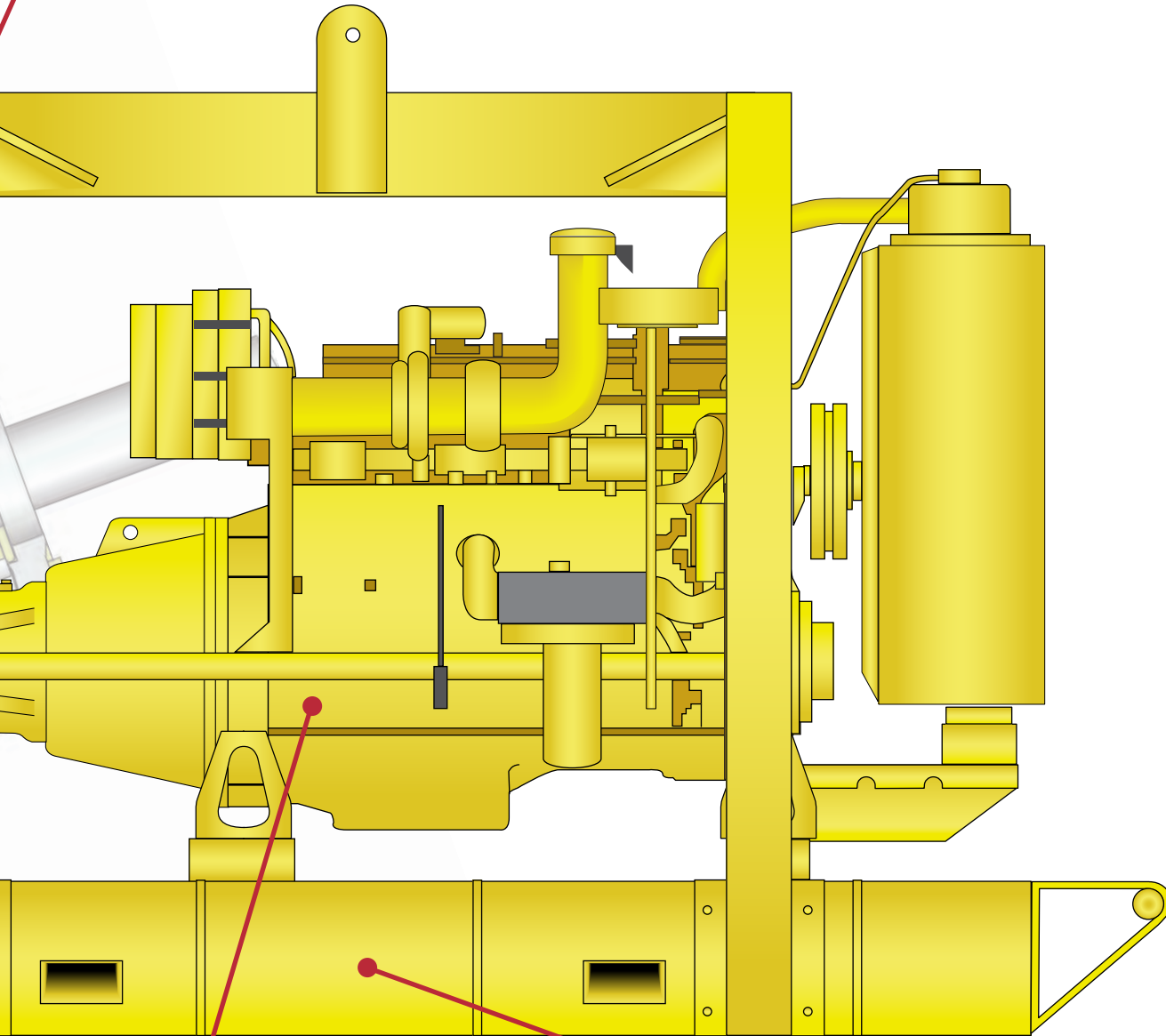


Removable Cleanout Plate

- 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 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 power frame or cleanout 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
- Register fit aligned to the engine to eliminate alignment issues



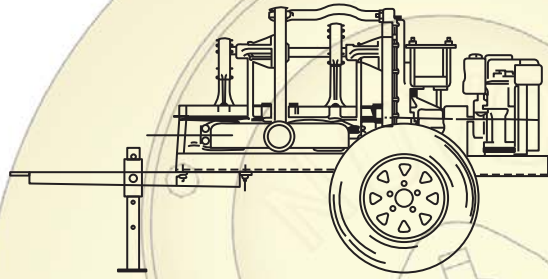
Driver

- Diesel, gasoline or electric drivers are available
- On board compressors available standard with options for external upon request
- A wide variety of engine manufacturers are available allowing you to keep similar units in your existing fleet

Base Assembly

- Stationary or mobile designs available
- Integral fuel tank to allow the engine assembly to run for a minimum of 8 hours
- Base assemblies can be supplied with or without containment packages
- Mobile packages can be supplied with DOT options to suite the customer
- Depending on package sizes, single and double axle trailers are available

Model ADM Pump



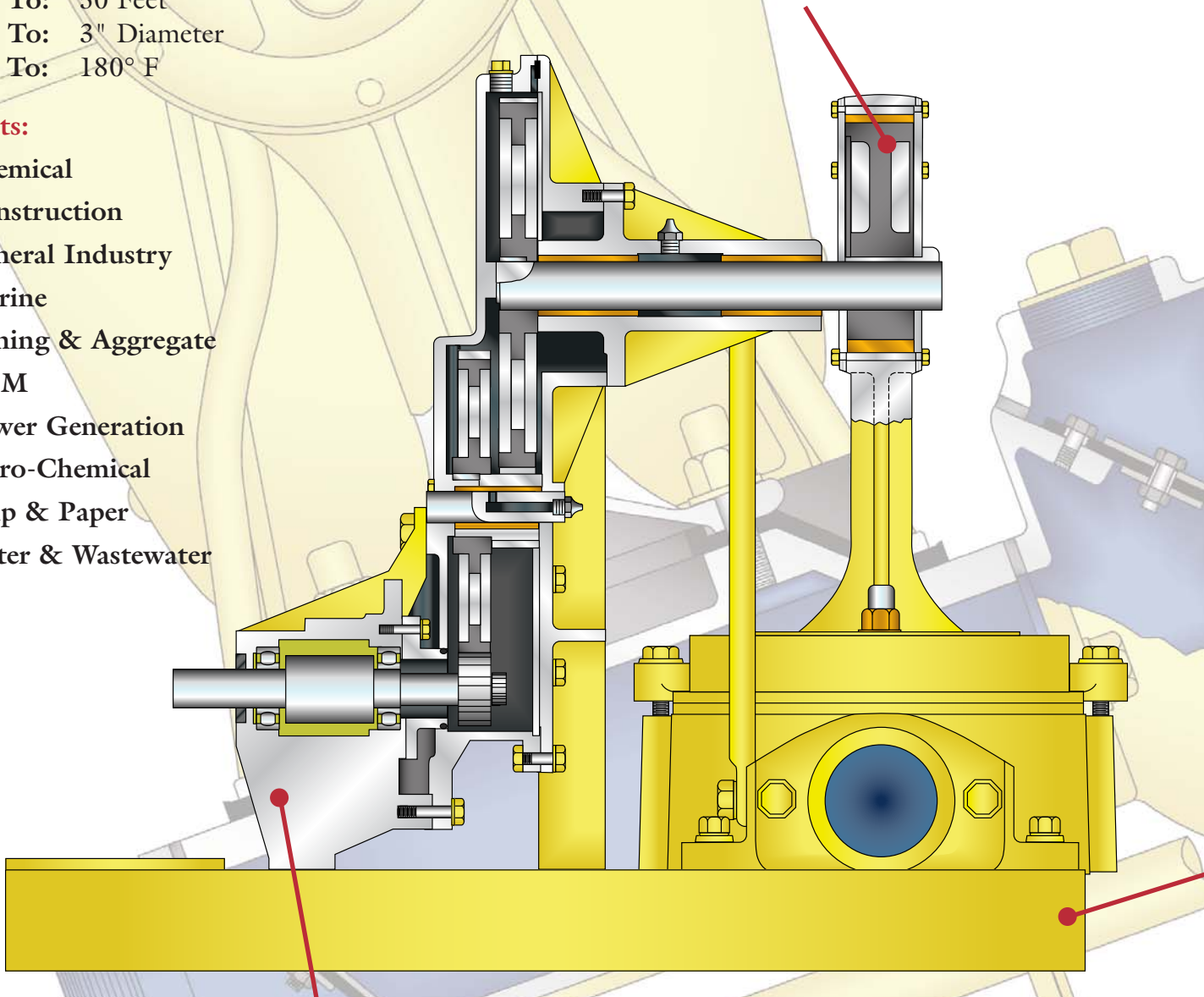
Flows To: 280 GPM
Heads To: 50 Feet
Solids To: 3" Diameter
Temps To: 180° F

Markets:

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

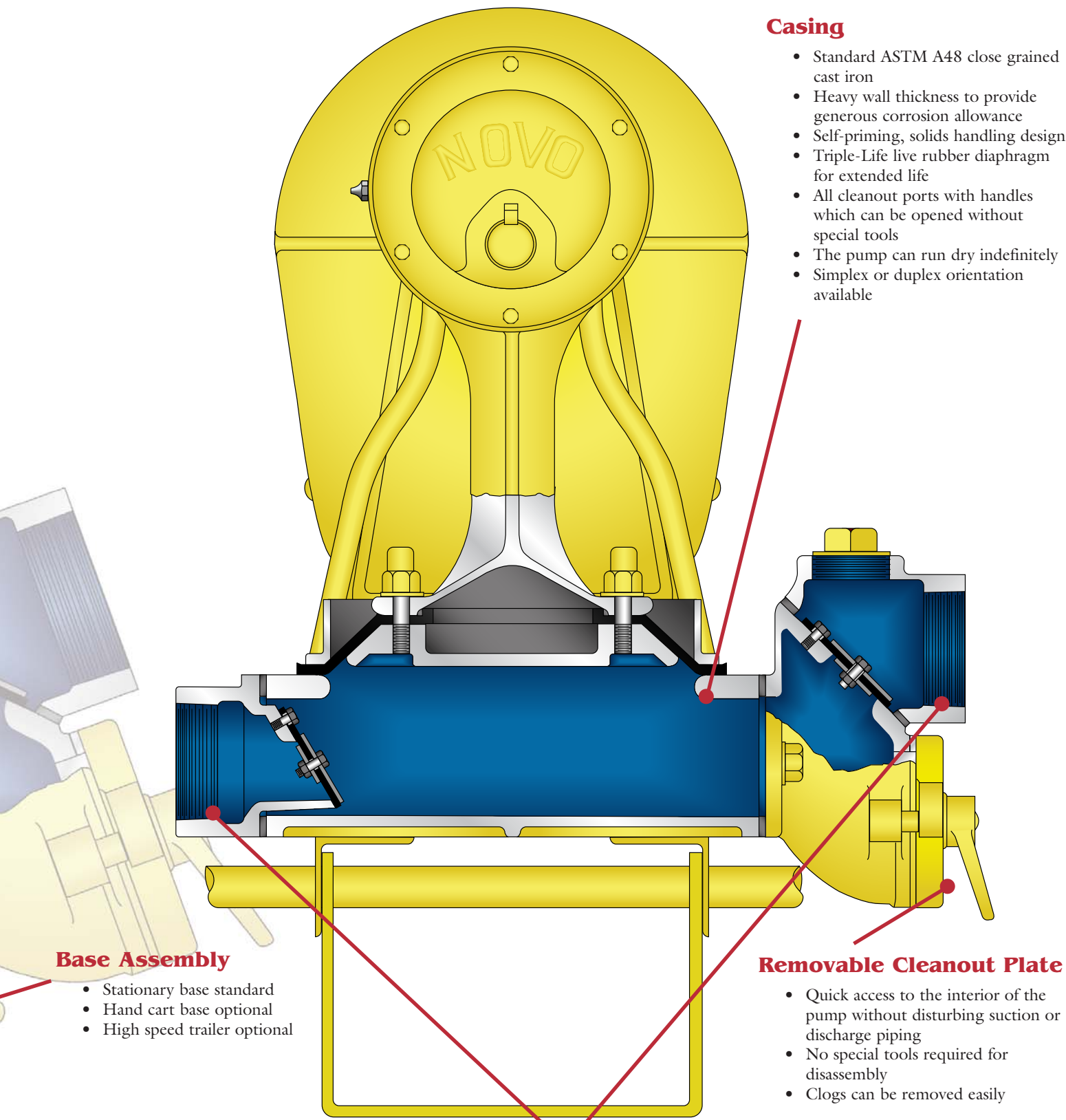
Eccentric

- Easily replaceable, annealed bronze bearings
- Grease lubricated for long life



Power Frame & Gear Housing

- Standard ASTM A48 close grained cast iron
- Independent oil reservoir for lubricating gear train and power frame roller bearings
- 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
- 30:1 gear drive ratio reduces engine input speed from 1800 RPM down to 60 RPM
- Drivers include electric motor, diesel or gasoline engine and PTO



Casing

- Standard ASTM A48 close grained cast iron
- Heavy wall thickness to provide generous corrosion allowance
- Self-priming, solids handling design
- Triple-Life live rubber diaphragm for extended life
- All cleanout ports with handles which can be opened without special tools
- The pump can run dry indefinitely
- Simplex or duplex orientation available

Base Assembly

- Stationary base standard
- Hand cart base optional
- High speed trailer optional

Removable Cleanout Plate

- Quick access to the interior of the pump without disturbing suction or discharge piping
- No special tools required for disassembly
- Clogs can be removed easily

Suction & Discharge Ports

- Heavy duty check valves ensure quick priming times and large solids handling capability
- Oil resistant with canvas reinforcement for durability
- Heavy, integral valve weights to ensure that the valve remains closed when the pump is off
- Optional pulsation damper on discharge port



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,

American-Marsh Pumps

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