



AMERICAN-MARSH PUMPS

“DURABILITY BY DESIGN SINCE 1873”

**300/310 Series
Close & Flex-Coupled/Inline
End Suction Pumps**

Flows to: 9,000 GPM
Heads to: 450 Feet
Temperatures to: 250° F

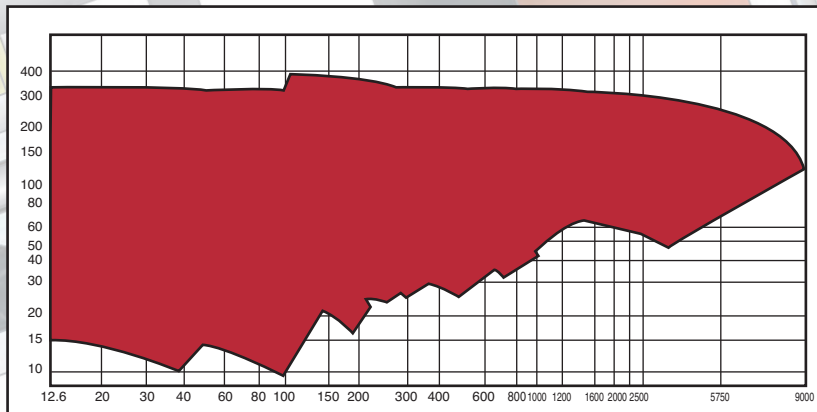
140 Years of Pump Manufacturing

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 has withstood the test of time. During 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 made, all designed for longevity, allowing many of them to continue servicing customers over 50 years.

All of our pumps have three superior characteristics; Design, Performance, and Durability. Our engineering department, which includes an in-house pattern shop, designs each pump so that installation and maintenance is easy. Our performances are engineered to meet or beat the competition in each category. For 140 years, American-Marsh Pumps products have

provided cost effective solutions by building pumps to last. Durability by design is always the most cost effective solution. From engineering and design to final assembly, experienced people control each step of the manufacturing process with quality control inspections performed at each step. All pumps shafts are heat straightened. All impellers are computer balanced. Pump testing is done in our new state of the art test facility. All of these factors ensure you receive consistent quality product every time.

American-Marsh Pumps has provided quality pump products for over 140 years. At American-Marsh Pumps, we know that long life and superior performance are the keys to satisfied customers. By understanding your needs, we can design products that meet those needs. Our product family reflects years of customer input, product upgrades, redesign and new product development, all focused on meeting and exceeding your expectations.





AMERICAN-MARSH PUMPS

Specifications

REC, REI & REF Series

Casing: The casing is constructed of high tensile cast iron or other specified material. It is of the volute type, carefully and accurately proportioned to permit smooth flow and to convert high velocity energy of the fluid as it leaves the impeller in pressure. Suction and discharge nozzles are cast integral with the volute. The suction has a cast integral vortex breaker to minimize inlet vortices and the discharge is of the center-line type. On REC and REF models, the center-line discharge transmits any pipe strain to the cast integral feet on the casing minimizing moment forces that can be generated on casings with a tangential discharge. On REI models, the suction and discharge are inline with each other for ease of installation. All RE models have cast integral support and feature back pull-out allowing the removal of the power frame and impeller without disturbing suction or discharge piping.

Impeller: The impeller is of the end suction type, casted in one piece of 304 stainless steel or other specified material. Each impeller is trimmed to meet customer requirements and are dynamically balanced prior to assembly. Impellers are furnished standard with back pump out vanes keeping material from building up around the stuffing box and throat area.

Case Wear Ring: The case wear ring is constructed of bronze or other specified material. Standard enclosed impellers are designed with integral case wear ring accurately machined to provide close running tolerances in the casing. The diameter of this ring is such as to reduce end thrust to a minimum. On larger models, a front and back case wear ring are standard.

Shaft: The shaft is of high strength stainless steel machined and polished to a smooth surface. It is designed for extra stiffness to avoid all critical speeds in operation. The shaft is stepped in diameter and so designed as to minimize shaft deflection at the stuffing box.

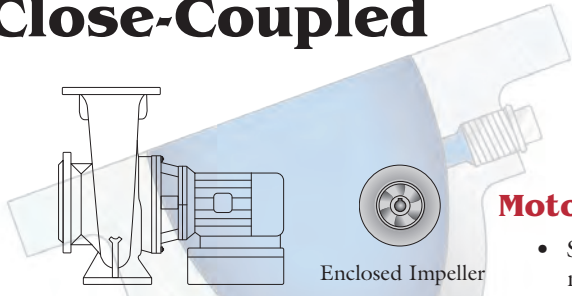
Shaft Sleeve: The shaft sleeve is of 304 stainless steel or other specified material and designed to protect the shaft in the stuffing box area. The shaft sleeve is keyed preventing it from rotating and has an o-ring on its inner diameter to prevent water from leaking under the sleeve.

Stuffing Box/Adapter: The stuffing box/adapter is constructed of cast iron or other specified material. The pump is designed standard with a component mechanical seal but can be supplied with a cartridge seal or packing if desired. An integral flush line is supplied standard to provide adequate lubrication to the mechanical seal or packing. If packed, the stuffing box is provided with a two piece packed gland and lantern ring.

Bearing Pedestal: REF models feature a bearing pedestal of high tensile cast iron and provides support for the inboard and outboard bearings. The bearing pedestal is fitted with two single row ball bearings of ample capacity designed to account for radial as well as thrust loads in either direction. Each bearing is pressed on to the shaft assuring proper alignment and location. Bearing caps with lip seals provide protection to the bearings by keeping dust and dirt out of the bearing pedestal. Each bearing is of the oil lubricated type for quiet operation and the bearing pedestal has oil level indicator integral for inspection of proper level.

Motor: REC and REI models utilize c-face motors. This design allows for the removal of the motor without disturbing any item within the pump. This flexibility allows the user to stock fully assembled wet ends less motors. To remove the motor, two or three set screws need to be loosened, remove the four bolts that hold the motor in location and then remove the motor. This motor concept allows the user to use nearly any motor enclosure such as ODP, TEFC, explosion proof, Corro-Duty and wash-down duty, enclosures that may not be available in other close-coupled designs.

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

Stuffing Box

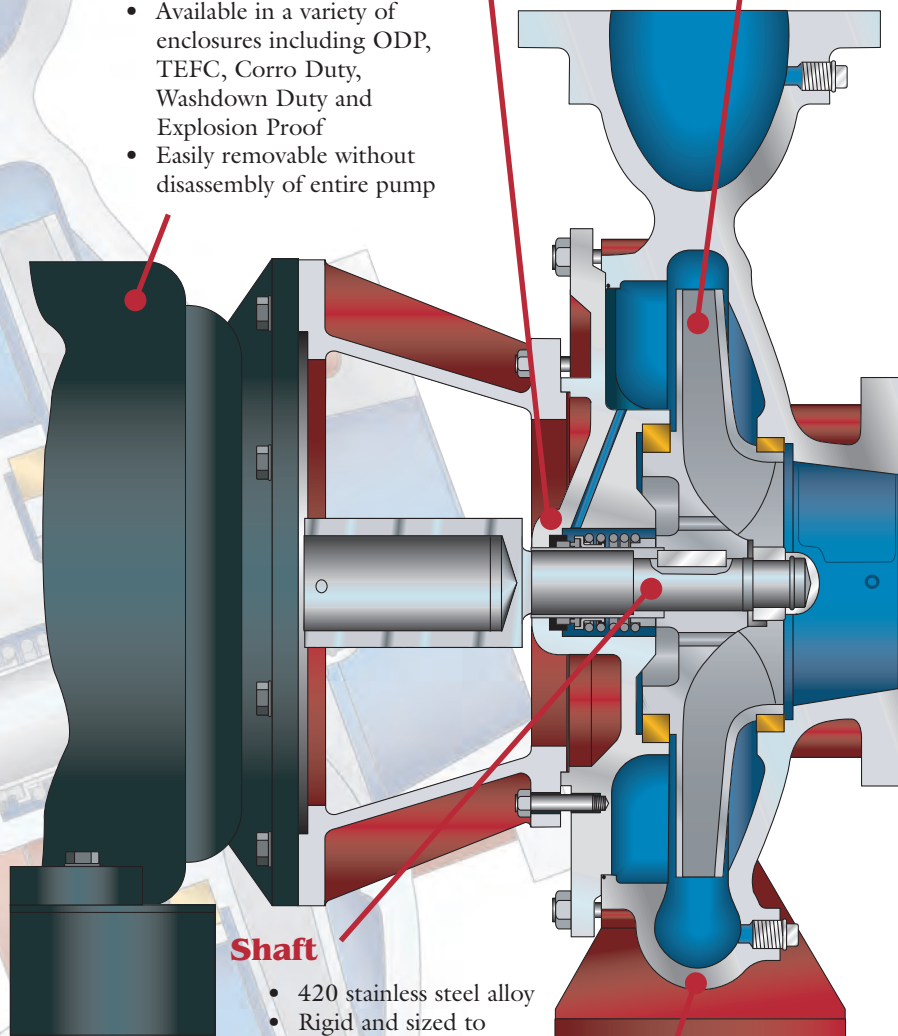
- Standard American-Marsh Series 810 Carbon/Silicon-Carbide/EPDM mechanical seal
- Easily replaceable shaft sleeve to extend life of shaft
- Internal flush line for lubrication
- One piece cast iron or other alloy

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

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

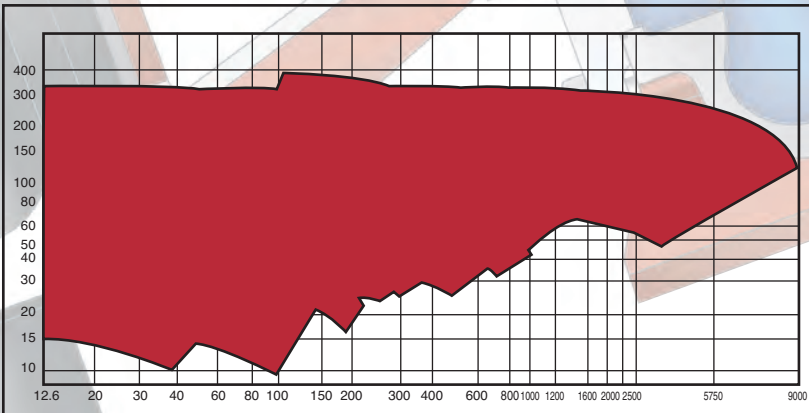


Shaft

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

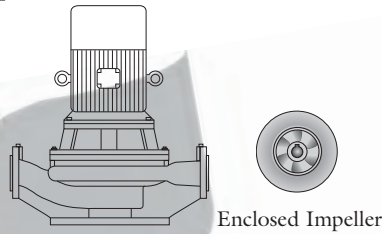
Casing

- 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 REI Vertical Inline

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



Stuffing Box

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

Services:

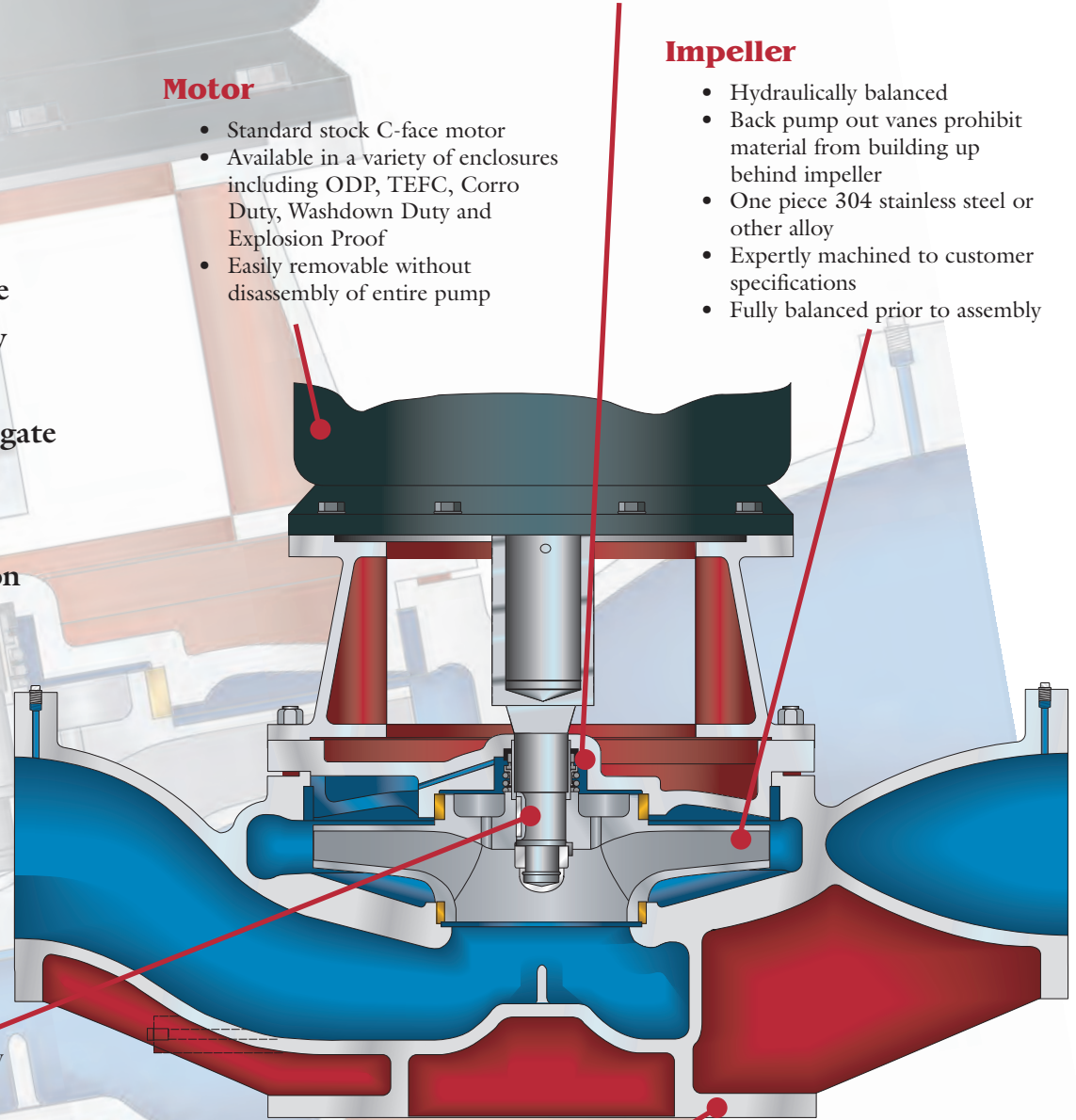
- Aerospace
- Building Trades
- Chemical
- Construction
- Food & Beverage
- General Industry
- Marine
- Mining & Aggregate
- OEM
- Oil & Gas
- Power Generation
- Petro-Chemical
- Pharmaceutical
- Pulp & Paper
- Semiconductor
- Water & Wastewater

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

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

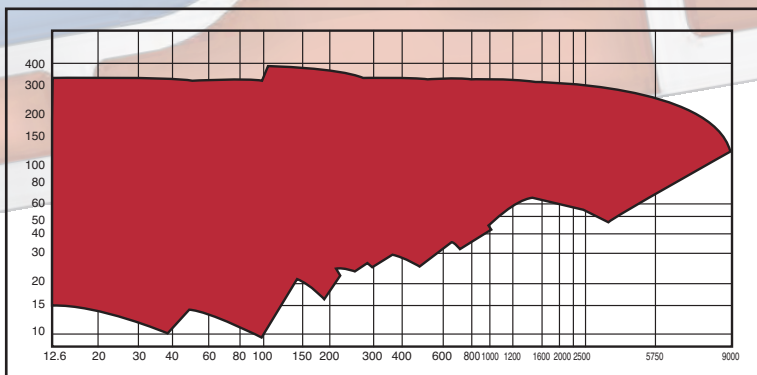


Shaft

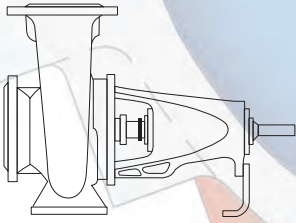
- 420 stainless steel alloy
- Rigid and sized to minimize deflection at seal area

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 REF Flex-Coupled

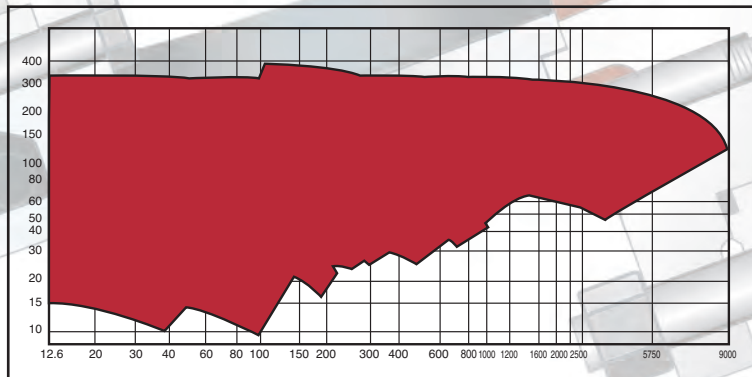
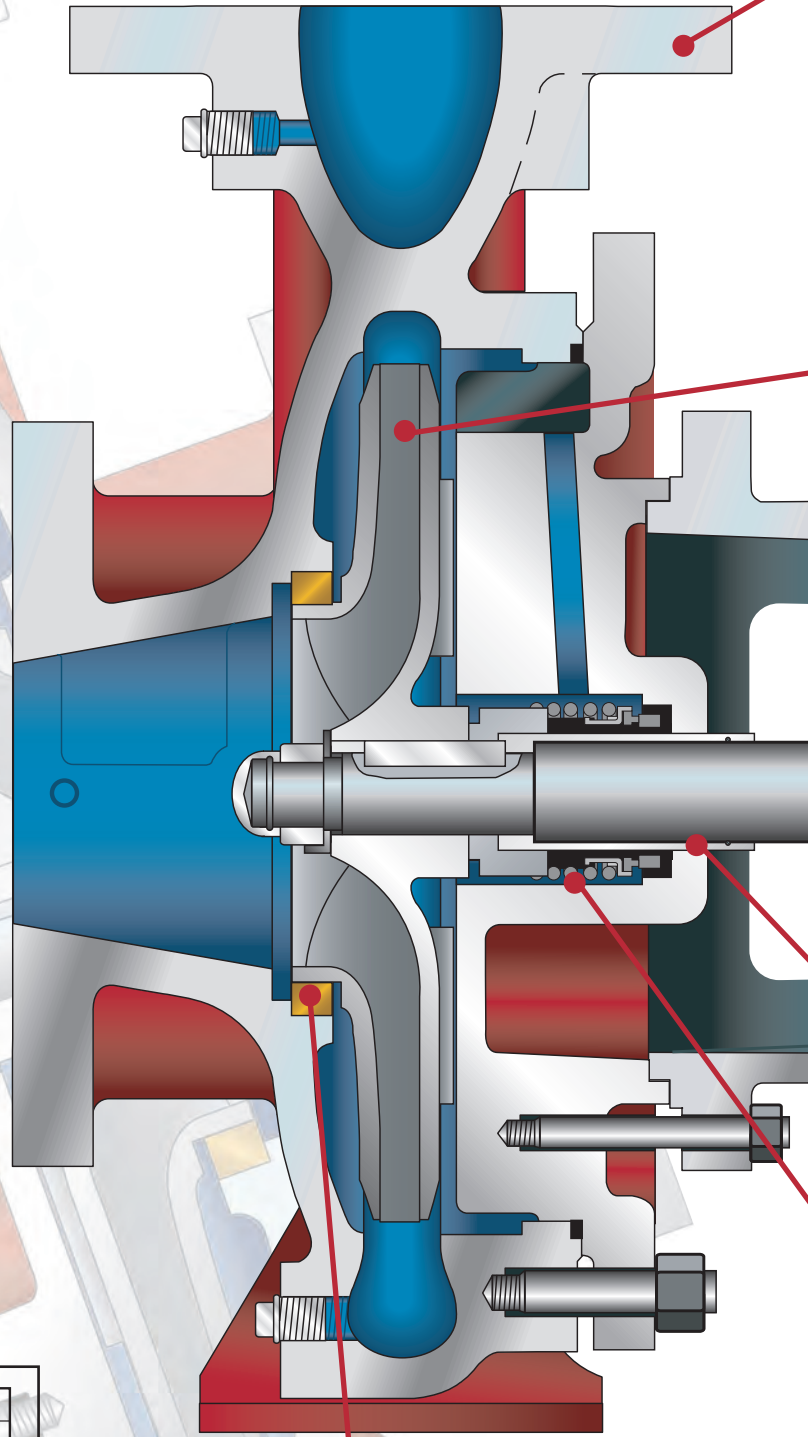


Enclosed Impeller

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



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

Casing

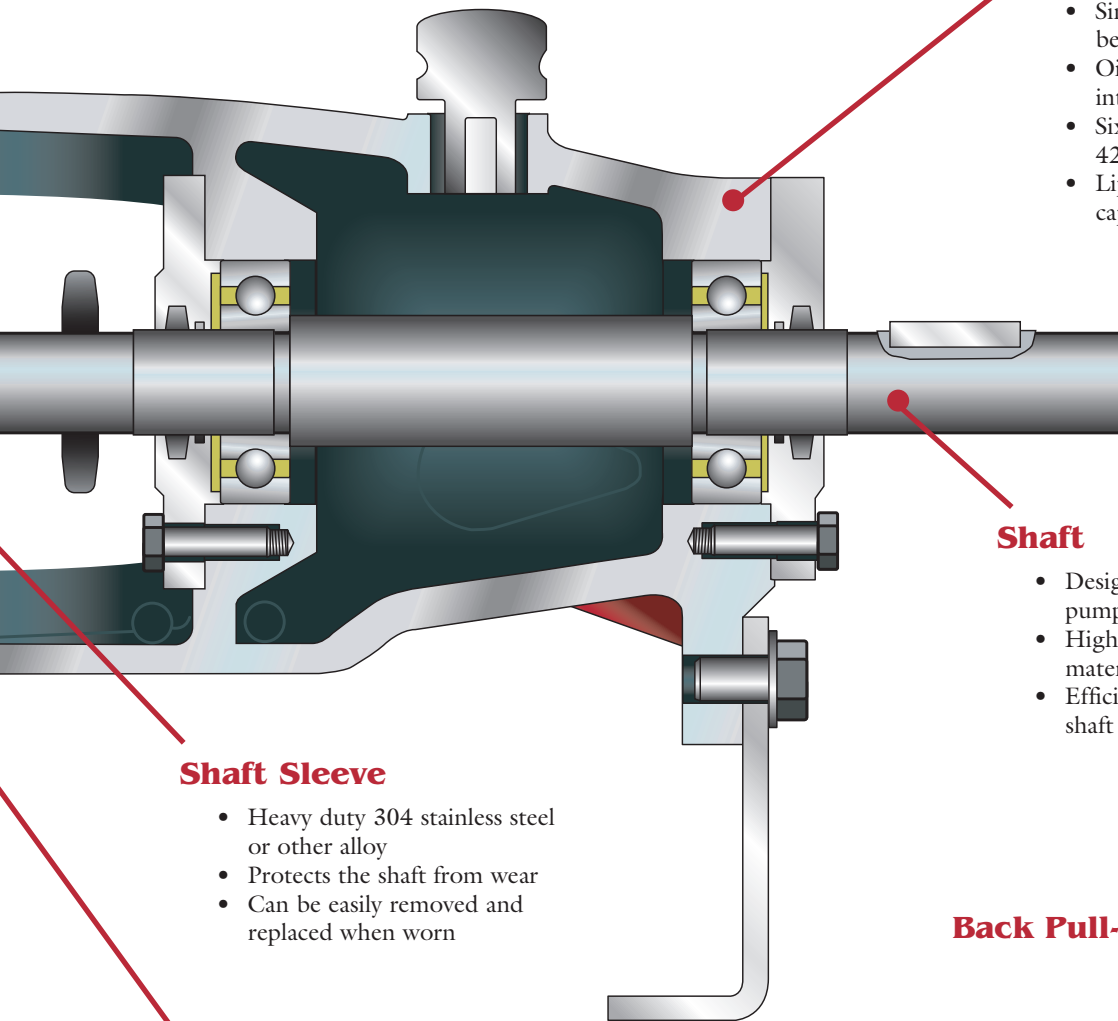
- Standard ASTM A48 Class 30 cast iron
- Heavy wall thickness to provide for generous corrosion allowance
- Integral vortex suppressor on suction
- Fully cast integral feet for support when utilizing “back pull-out” feature
- Centerline discharge transmits residual pipe strain to feet of casing and eliminates 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

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

Bearing Pedestal

- Heavy duty ASTM A48 cast iron
- Single row inboard and outboard bearings
- Oil lubricated power frame with integral sight glass
- Six bearing pedestals cover all 42 models
- Lip seals on each bearing housing cap to keep out contaminants



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

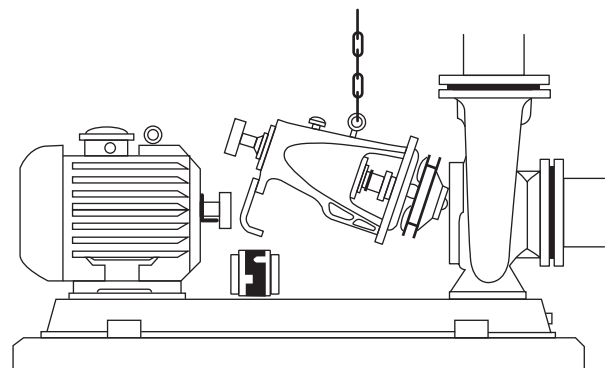
Shaft Sleeve

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

Stuffing Box

- Standard American-Marsh Series 810 Carbon/Silicon-Carbide/EPDM mechanical seal
- Packing, component or cartridge seals can be specified
- One piece cast iron or other alloy
- Heavy duty with integral flush line for packing or seal lubrication

Back Pull-out Feature



Our long tradition of quality pump manufacturing began in 1873 making us one of the first pump manufacturers in this country. **American-Marsh Pumps** provides the user dependability and durability. Durability by design is always the most cost effective solution.

CASING

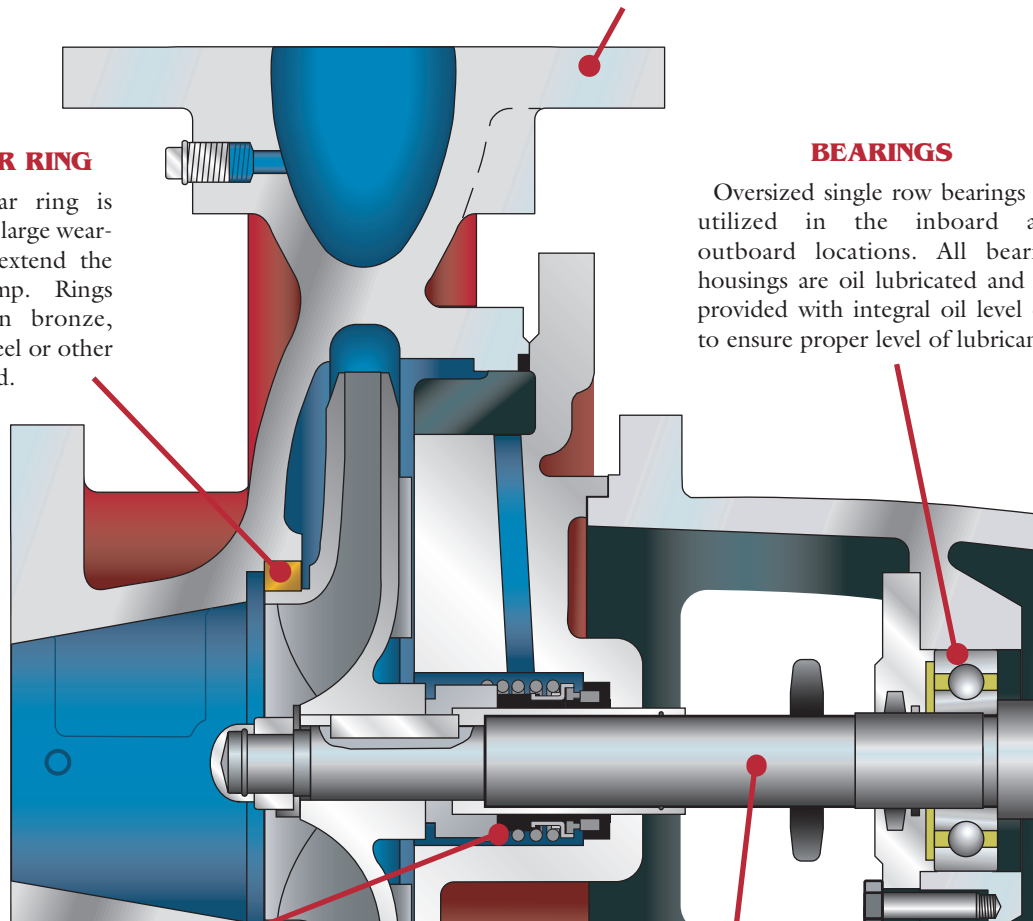
The casing is designed for back pull-out making service easy and is also provided with additional thickness for corrosion allowance. Surfaces are machined to accurate tolerances in our machining centers. Centerline discharge allows for self-venting casings and cast integral feet provide additional support.

CASE WEAR RING

The case wear ring is oversized with a large wearing surface to extend the life of each pump. Rings are available in bronze, iron, stainless steel or other alloys as required.

BEARINGS

Oversized single row bearings are utilized in the inboard and outboard locations. All bearing housings are oil lubricated and are provided with integral oil level eye to ensure proper level of lubricant.



MECHANICAL SEALS/PACKING

Stuffing boxes are supplied standard with a front loading mechanical seal. Due to the flexibility in design, packing and/or cartridge seals can be supplied upon request.

SHAFTS

American-Marsh Pumps standard product design includes 420 stainless steel shafts designed for corrosion resistance and minimum shaft deflection. Each shaft is machined to close tolerance and designed to exceed HP requirements of each pump.

OTHER PUMP PRODUCTS

SPLIT CASE To 32+\" Discharge 30,000+ GPM, 550'	VERTICAL TURBINE To 42+\" Bowl 85,000+ GPM, 2500'	MULTI-STAGE To 8\" Discharge 2500+ GPM, 2500'	SELF PRIMER To 12\" Discharge 6400+ GPM, 200'	VERTICAL SUMP To 12\" Discharge 9000 GPM, 985'
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