



AMERICAN-MARSH PUMPS

“DURABILITY BY DESIGN SINCE 1873”

**330 Series
Non-Clog Pumps**

Flows to: 8,000 GPM
Heads to: 140 Feet
Temperatures to: 250° F

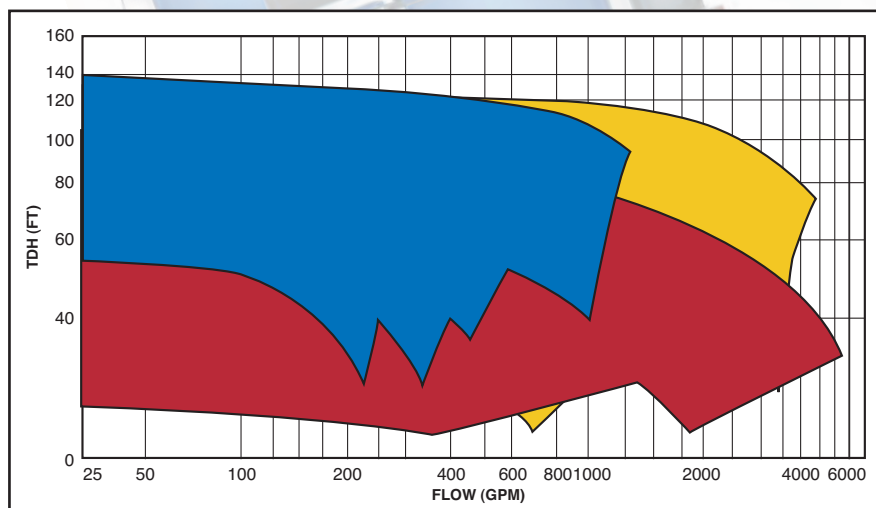
140 Years of Pump Manufacturing

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.





Specifications

NCC, NCCC, NCV & NCH Series

Casing: The casing is constructed of high tensile ASTM A48 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 into pressure. Model NCC, NCCC & NCV pumps feature a fully casted suction elbow with base. An oversized, oval cleanout plate is located on the suction elbow to provide visibility and accessibility to the impeller vanes. Model NCH pumps feature a fully casted suction cover with an oversized, oval cleanout plate to provide visibility and accessibility to the impeller vanes. The suction nozzle is removable for inspection and can be replaced if severely worn. The discharge nozzle is casted integral with the volute and is of 125 psi dimensions. An oversized, oval cleanout plate is located on the discharge nozzle to provide visibility and accessibility to the impeller blades and casing cutwater. Casing wear plates can be supplied as an option to extend casing life. Necessary vent and drain openings are provided.

Impeller: The impeller is of the high efficiency, enclosed, two vane end suction type, casted in one piece of ASTM A48 cast iron or other specified material. All impellers are hydraulically and dynamically balanced prior to assembly and all impellers have front and rear pump out vanes standard to reduce material from building up in front of or behind the impeller. The impeller features rounded tips to provide a smooth surface around which stringy and “limp” materials will readily flow. The balanced two vane design also eliminates excessive and undesirable weight which can affect shaft, mechanical seal and bearing life. All impellers feature large spherical solids passing capability with larger models capable of passing seven (7) inch solids. Large diameter impellers also allow for higher head applications at lower speeds which is preferable when moving fluid with large solids present.

Stuffing Box/Mechanical Seal Chamber: The stuffing box/mechanical seal chamber is constructed of high tensile ASTM A48 cast iron or other specified material. The boxes and chambers are designed to house packing with an lantern ring, component and/or cartridge mechanical seals. The boxes and chambers also feature an *Accu-Shock* bushing that prevents major shaft deflection and bearing damage from rocks or other heavy objects entering the impeller. This is a standard feature not found in other pumps of this type.

Shaft: The shaft is of high strength 420 stainless steel, ground to accurate dimensions and polished to a smooth surface. It is designed for extra stiffness to avoid all critical speeds during operation. The fluid end of the shaft is tapered to allow for easy removal during inspection and maintenance. The shaft is protected by a shaft sleeve of ample thickness to ensure long life and can be supplied in various materials.

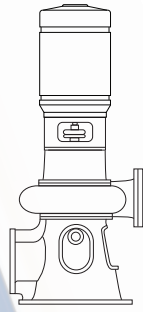
Power Frame: The power frame is constructed of high tensile ASTM A48 cast iron and provides support for the inboard and outboard bearings. The outboard bearing is of the deep groove, single row type designed to carry all radial loads encountered by the pump. The inboard bearing is of the deep groove, double row type designed to carry all axial thrust loads encountered by the pump. This inboard double row bearing is also designed to minimize shaft deflection at the mechanical seal extending mechanical seal life. All bearings are sized to maintain a minimum of 50,000 hour bearing life. Each bearing housing is sealed from water leakage by the use of an oil lip seal and are grease lubricated. NCH models are designed for flex-coupled service. NCC & NCV models are designed with the full power frame but also include a C-face bracket for close-coupled operation.

Model NCCC Pump

Sizes: 3" to 14"
Flows: 8,000 GPM
Heads: 140 Feet
Temp: 250° F

Services:

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



Two-Vane 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

Stuffing Box/Seal Chamber

- Standard ASTM A48 class 30 cast iron
- Oversized to insure long life of packing with lantern ring or a wide variety of component and cartridge mechanical seals
- Integral *Accu-Shock*bushing that prevents major shaft deflection and bearing damage from rocks or other heavy objects entering the impeller
- Modular design allows for full back pull-out of rotor assembly for quick service during maintenance

Impeller

- Standard ASTM A48 class 30 cast iron
- Two vane, enclosed high efficiency design
- 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
- Impeller nut is countersunk to prevent rags and foreign matter from catching on the impeller and clogging the pump

Heavy Duty Casing

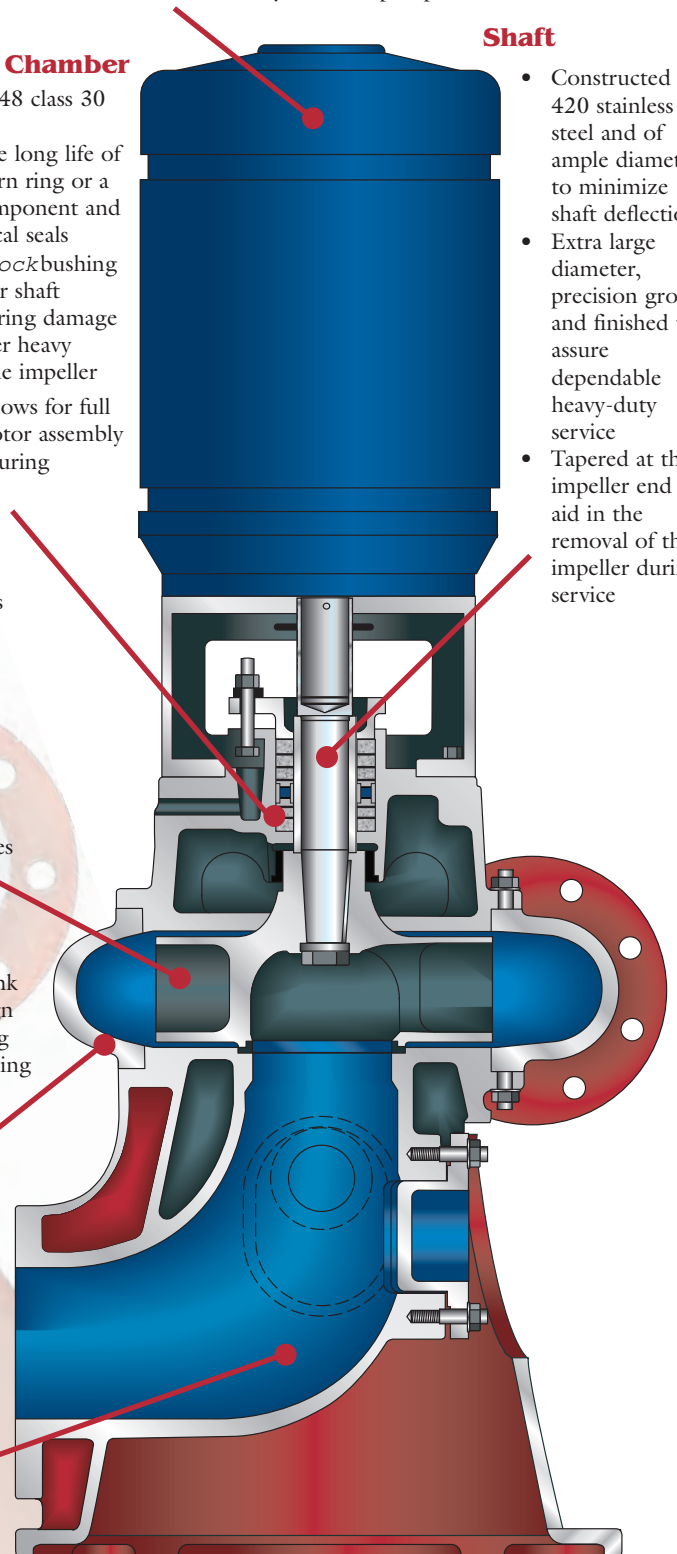
- Standard ASTM A48 Class 30 cast iron
- Heavy wall thickness to provide generous corrosion allowance
- High efficiency tangential discharge casing with the ability to rotate the discharge position to meet piping requirements in the field
- Designed specifically to handle fluids with large spherical solids present
- Integral drain and gauge taps standard
- Large oversized clean out cover to provide visibility and accessibility to the impeller vanes and casing cutwater

Suction Elbow & Stand

- Standard ASTM A48 class 30 cast iron
- Heavy wall thickness to provide generous corrosion allowance
- Oversized fluid passageway designed specifically to handle fluids with large spherical solids present
- Large oversized clean out cover to provide visibility and accessibility to the impeller vanes
- Integral drain and gauge taps

Shaft

- Constructed of 420 stainless steel and of ample diameter to minimize shaft deflection
- Extra large diameter, precision ground and finished to assure dependable heavy-duty service
- Tapered at the impeller end to aid in the removal of the impeller during service

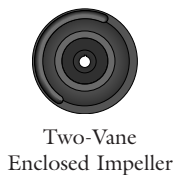
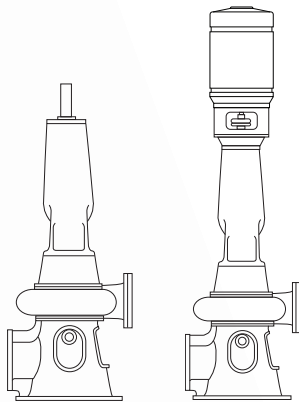


Model NCV & NCC Pump

Sizes: 3" to 14"
Flows: 8,000 GPM
Heads: 140 Feet
Temp: 250° F

Services:

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



Stuffing Box/Seal Chamber

- Standard ASTM A48 class 30 cast iron
- Oversized to insure long life of packing with lantern ring or a wide variety of component and cartridge mechanical seals
- Integral *Accu-Shock* bushing that prevents major shaft deflection and bearing damage from rocks or other heavy objects entering the impeller
- Modular design allows for full back pull-out of rotor assembly for quick service during

Power Frame

- Standard ASTM A48 class 30 cast iron
- 420 stainless steel, oversized shaft precision ground and finished to assure dependable heavy duty service
- Single row outboard with double row inboard bearing
- Double row inboard bearing assures minimal shaft deflection at the seal chamber for extended mechanical seal life
- Grease lubricated power frame to assure positive lubrication of the bearings
- Flex-coupled shaft driven standard (NCV) but can be close coupled (NCC) to a C-face motor depending on jobsite requirements
- Modular design allows for full back pull-out of rotor assembly for quick service during maintenance

Impeller

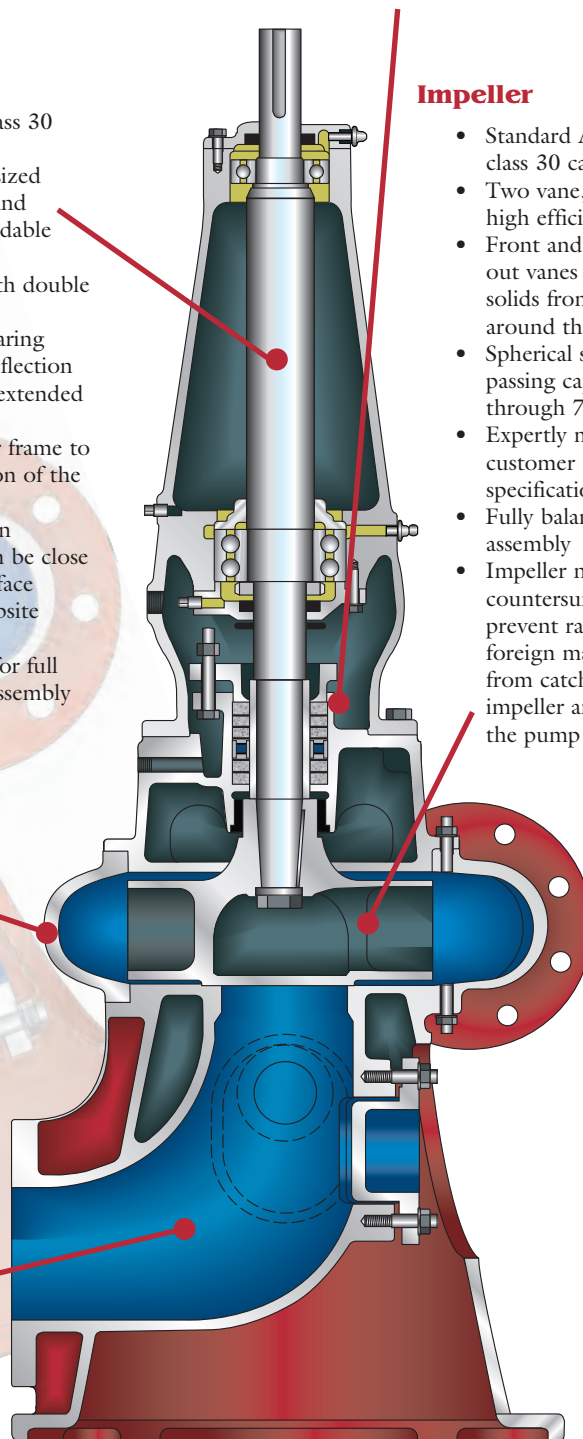
- Standard ASTM A48 class 30 cast iron
- Two vane, enclosed high efficiency design
- Front and rear pump out vanes to stop solids from gathering around the impeller
- Spherical solids passing capability through 7 inches
- Expertly machined to customer specifications
- Fully balanced before assembly
- Impeller nut is countersunk to prevent rags and foreign matter from catching on the impeller and clogging the pump

Heavy Duty Casing

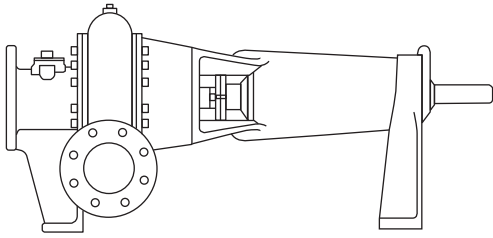
- Standard ASTM A48 Class 30 cast iron
- Heavy wall thickness to provide generous corrosion allowance
- High efficiency tangential discharge casing with the ability to rotate the discharge position to meet piping requirements in the field
- Designed specifically to handle fluids with large spherical solids present
- Integral drain and gauge taps standard
- Large oversized clean out cover to provide visibility and accessibility to the impeller vanes and casing cutwater

Suction Elbow & Stand

- Standard ASTM A48 class 30 cast iron
- Heavy wall thickness to provide generous corrosion allowance
- Oversized fluid passageway designed specifically to handle fluids with large spherical solids present
- Large oversized clean out cover to provide visibility and accessibility to the impeller vanes
- Integral drain and gauge taps



Model NCH Pump



Sizes: 3" to 14"
Flows: 8,000 GPM
Heads: 140 Feet
Temp: 250° F



Two-Vane
Enclosed Impeller

Services:

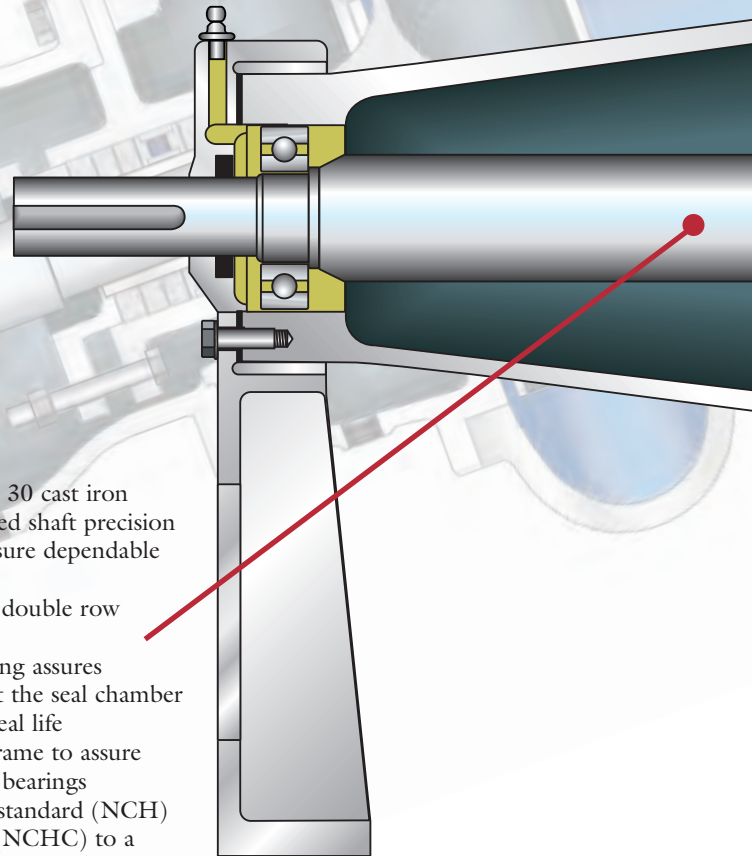
-  Building Trades
-  Chemical
-  Construction
-  Food & Beverage
-  General Industry
-  Marine
-  Mining & Aggregate
-  OEM
-  Oil & Gas
-  Power Generation
-  Petro-Chemical
-  Pharmaceutical
-  Pulp & Paper
-  Water & Wastewater

Stuffing Box/Seal Chamber

- Standard ASTM A48 class 30 cast iron
- Oversized to insure long life of packing with lantern ring or a wide variety of component and cartridge mechanical seals
- Integral *Accu-Shock* bushing that prevents major shaft deflection and bearing damage from rocks or other heavy objects entering the impeller
- Modular design allows for full back pull-out of rotor assembly for quick service during maintenance

Power Frame

- Standard ASTM A48 class 30 cast iron
- 420 stainless steel, oversized shaft precision ground and finished to assure dependable heavy duty service
- Single row outboard with double row inboard bearing
- Double row inboard bearing assures minimal shaft deflection at the seal chamber for extended mechanical seal life
- Grease lubricated power frame to assure positive lubrication of the bearings
- Flex-coupled shaft driven standard (NCH) but can be close coupled (NCHC) to a C-face motor depending on jobsite requirements
- Modular design allows for full back pull-out of rotor assembly for quick service during maintenance

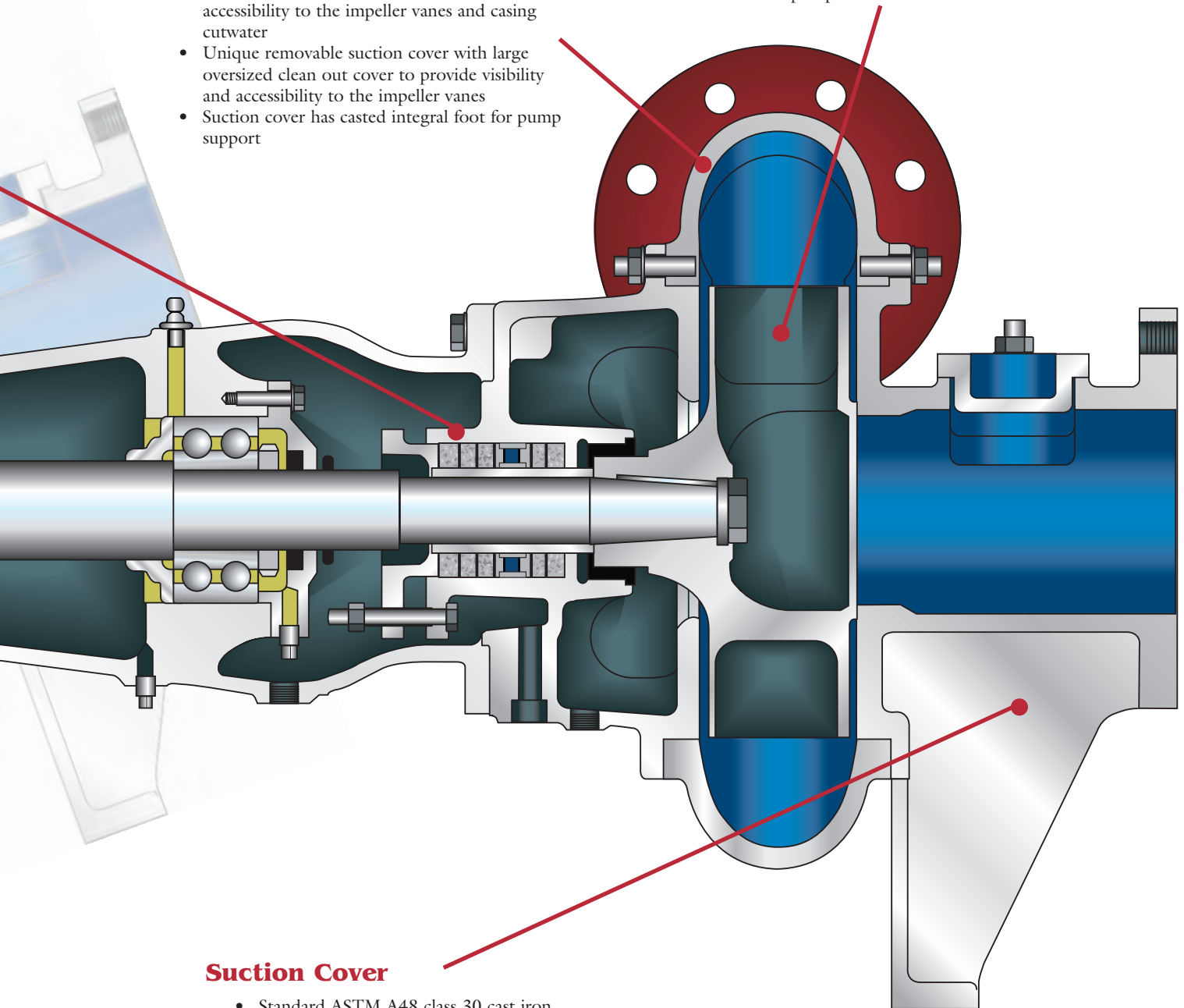


Heavy Duty Casing

- Standard ASTM A48 Class 30 cast 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
- Unique removable suction cover with large oversized clean out cover to provide visibility and accessibility to the impeller vanes
- Suction cover has casted integral foot for pump support

Impeller

- Standard ASTM A48 class 30 cast iron
- Two vane, enclosed high efficiency design
- 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
- Impeller nut is countersunk to prevent rags and foreign matter from catching on the impeller and clogging the pump



Suction Cover

- Standard ASTM A48 class 30 cast iron
- Casted integral foot for casing support
- Heavy wall thickness to provide generous corrosion allowance
- Oversized fluid passageway designed specifically to handle fluids with large spherical solids present
- Large oversized clean out cover to provide visibility and accessibility to the impeller vanes
- Integral drain and gauge taps

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.

Nearly all designs are available in alternate metallurgy constructions.

Power Frame

- Standard ASTM A48 class 30 cast iron
- 420 stainless steel, oversized shaft precision ground and finished to assure dependable heavy duty service
- Single row outboard with double row inboard bearing
- Double row inboard bearing assures minimal shaft deflection at the seal chamber for extended mechanical seal life
- Grease lubricated power frame to assure positive lubrication of the bearings
- Flex-coupled shaft driven standard (NCV) but can be close coupled (NCC) to a C-face motor depending on jobsite requirements
- Modular design allows for full back pull-out of rotor assembly for quick service during maintenance

Impeller

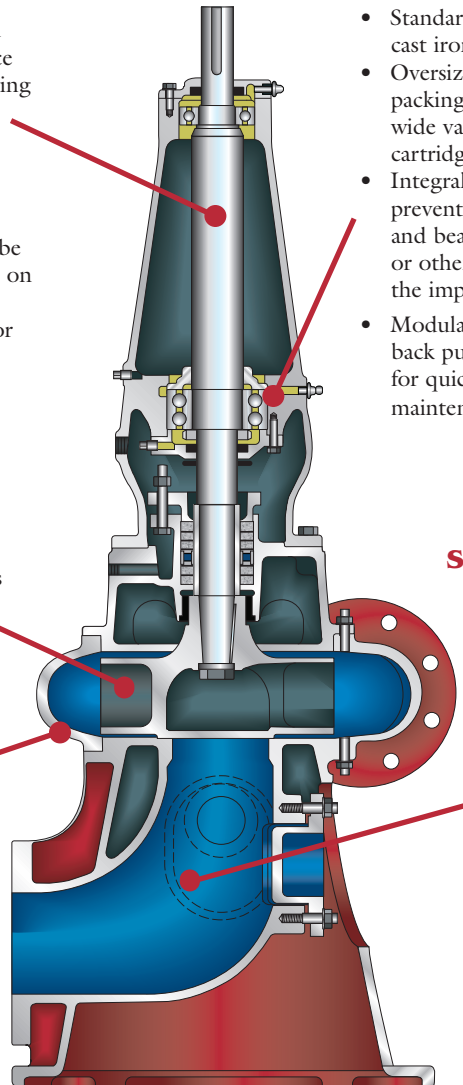
- Standard ASTM A48 class 30 cast iron
- Two vane, enclosed high efficiency design
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Heavy Duty Casing

- Standard ASTM A48 Class 30 cast 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
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Stuffing Box/Seal Chamber

- Standard ASTM A48 class 30 cast iron
- Oversized to insure long life of packing with lantern ring or a wide variety of component and cartridge mechanical seals
- Integral *Accu-Shock* bushing that prevents major shaft deflection and bearing damage from rocks or other heavy objects entering the impeller
- Modular design allows for full back pull-out of rotor assembly for quick service during maintenance



Suction Elbow & Stand

- Standard ASTM A48 class 30 cast iron
- Heavy wall thickness to provide generous corrosion allowance
- Oversized fluid passageway designed specifically to handle fluids with large spherical solids present
- Large oversized clean out cover to provide visibility and accessibility to the impeller vanes
- Integral drain and gauge taps

OTHER PUMP PRODUCTS

MULTI-STAGE
To 8" Discharge
2500+ GPM, 2100'

END SUCTION
To 12" Discharge
9000 GPM, 450'

VERTICAL SUMP
To: 12" discharge
9000 GPM, 985'

VERTICAL TURBINE
To 42+ " Discharge
85,000+ GPM, 2500'

SPLIT CASE
To 32+ " Discharge
30,000+ GPM, 550'

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www.american-marsh.com