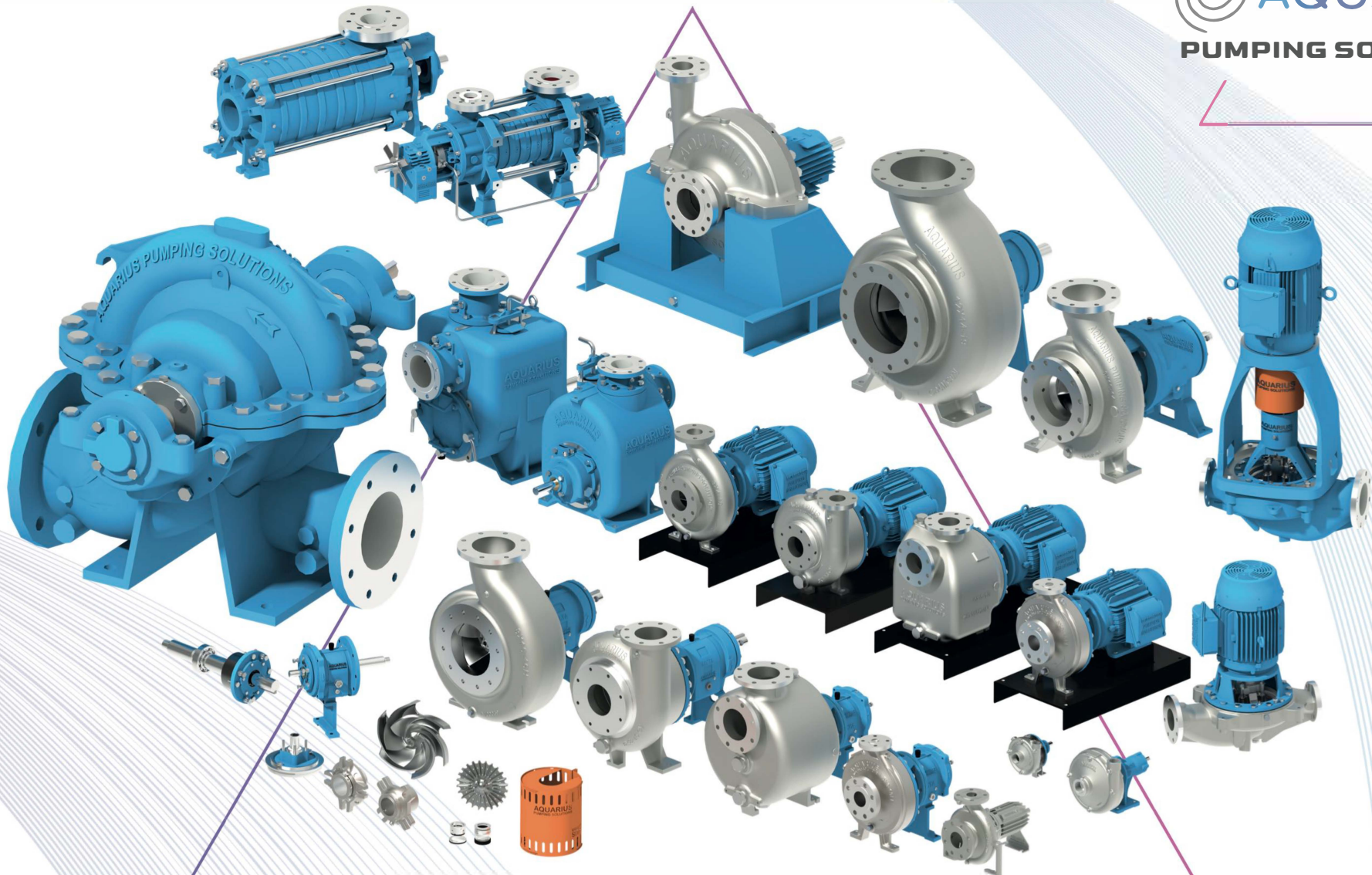


Product Line Card



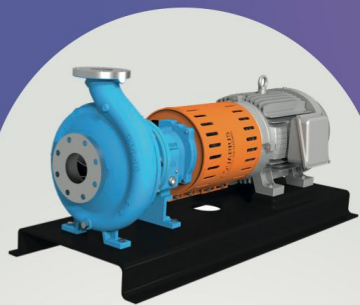
Mastering Your Fluid Dynamics

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ANSI Pumps

COMMON FEATURES

- Open Impeller Design
- Engineered Seal Chambers
- Rugged Power Ends
- Back Pull-Out Design
- Parts are Highly Interchangeable
- External Impeller Adjustment
- Easy Retrofit
- Extended Pump Life
- Lowest Total Cost of Ownership
- Rigid Pump Mounting System
- Optional Shaft Guard
- Optional Dynamic Sealing Option



A196 SERIES

End-Suction Centrifugal Process Pumps

DESIGN FEATURE:

Comply with ANSI B73.1 Standard

Capacities : Up to 7000 GPM (1590 m³/h)
Heads : Up to 730 feet (223 m)
Temperatures : Up to 700° F (371° C)
Pressures : Up to 375 PSIG (26 bar)

APPLICATION

- Water, Waste water
- HVAC
- Sea water
- Chemical, Petro chemical
- Condensate
- High pressure process



A196LF SERIES

Low Flow Process Pumps

DESIGN FEATURE:

- Concentric (Circular) Casing
- Radial Vane Impeller
- Extended Seal and Bearing's Life at Low Flow Operations

Capacities : Up to 220 GPM (50 m³/h)
Heads : Up to 925 feet (282 m)
Temperatures : Up to 700° F (371° C)
Pressures : Up to 450 PSIG (3102 kPa)

APPLICATION

- Reactor feed
- Batch chemical process
- Shower service
- Boiler feed
- Specialty chemicals
- Condensate
- Column reflux
- Column bottoms
- Hot oil
- High pressure process



A796 SERIES

Self-Priming Process Pumps

DESIGN FEATURE:

- One-Piece Casing with Integral Priming and Air Separation
- No Suction Check Valve Required.
- Rapid Priming Time.
- Positive Retention of Pumpage Under Siphon Conditions.
- Self-Purge of Vapors.

Capacities : Up to 1250 GPM (284 m³/h)
Heads : Up to 430 feet (131 m)
Temperatures : Up to 500° F (260° C)
Pressures : Up to 290 PSIG (1999 kPa)
Effective static lift : Up to 20 feet (6 m)

APPLICATION

- Industrial sump
- Chemical transfer
- Coal pile drainage
- Filter systems
- Aircraft fueling
- Mine dewatering
- Bilge water removal
- Tank car unloading
- Petroleum transfer
- Column bottoms and reflux

MOC

- Ductile Iron
- Carbon Steel
- 316 SS
- CD4MCuN
- Alloy 20
- Monel
- Nickel
- Hastelloy B & C
- Titanium
- Bronze



A996 SERIES

In-Line Process Pumps

DESIGN FEATURE:

- Integral Pump Bearings
- Precision fits for Accurate Alignment
- Flexibly Coupled
- In-Line Mounting
- Field Alignment not Required

Capacities : Up to 1400 GPM (318 m³/h)
Heads : Up to 700 feet (213 m)
Temperatures : Up to 500° F (260° C)
Pressures : Up to 375 PSIG (2586 kPa)

APPLICATION

- Condensate return
- Acid unloading
- Monomer/Polymer transfer
- Liquid nitrogen
- Liquid ammonia
- Caustic transfer
- Reflux and light tower bottoms
- Waste acid recovery
- Pickle liquor circulation
- Chilled water
- Filter feed



A196CV SERIES

Non-Clog Process Pumps

DESIGN FEATURE:

- Concentric Vortex Casing for Non-Clog, Minimum Wear
- Recessed Impeller for Minimum Solids Degradation

Capacities : Up to 2700 GPM (610 m³/h)
Heads : Up to 440 feet (134 m)
Temperatures : Up to 500° F (260° C)
Pressures : Up to 285 PSIG (1965 kPa)

APPLICATION

- Hydropulper pump
- Filter slurries
- Crystal suspensions
- Latex
- Fibrous wastewater
- Polystyrene beads
- Screen rejects
- Fruit and vegetable suspensions
- Dye liquor
- Long fibre white water
- Primary cleaner pump
- Sodium chlorate slurry

ANSI Close Coupled Pumps

COMMON FEATURES

- Compact & Space Saving Design
- Same Hydraulic Performance as ANSI Pumps
- Flexible Sealing Option
- Close-Coupled with NEMA or IEC Motors
- Standard Bore, Large Bore and Flow Modifier
- Large Bore Stuffing Box Covers are Available
- Economical Option for Application

MOC

- Ductile Iron
- Carbon Steel
- 316 SS
- CD4MCuN
- Alloy 20
- Monel
- Nickel
- Hastelloy B & C
- Titanium
- Bronze



A196-CC SERIES

Centrifugal Closed Couple Process Pumps

Capacities : Up to 7000 GPM (1590 m³/h)
Heads : Up to 730 feet (223 m)
Temperatures : Up to 200° F (93° C)
Pressures : Up to 375 PSIG (26 bar)

APPLICATION

- Water, Waste water
- HVAC
- Sea water
- Chemical, Petro chemical
- Condensate
- High pressure process



A196LF-CC SERIES

Low Flow Closed Couple Process Pumps

Capacities : Up to 220 GPM (50 m³/h)
Heads : Up to 925 feet (282 m)
Temperatures : Up to 200° F (93° C)
Pressures : Up to 450 PSIG (3102 kPa)

APPLICATION

- Reactor feed
- Batch chemical process
- Shower service
- Boiler feed
- Specialty chemicals
- Condensate
- Column reflux
- Column bottoms
- Hot oil
- High pressure process



A796-CC SERIES

Self-Priming Closed Couple Process Pumps

Capacities : Up to 1250 GPM (284 m³/h)
Heads : Up to 430 feet (131 m)
Temperatures : Up to 200° F (93° C)
Pressures : Up to 290 PSIG (1999 kPa)
Effective static lift : Up to 20 feet (6 m)

APPLICATION

- Industrial sump
- Chemical transfer
- Coal pile drainage
- Filter systems
- Aircraft fueling
- Mine dewatering
- Bilge water removal
- Tank car unloading
- Petroleum transfer
- Column bottoms and reflux



A996-CC SERIES

In-Line Closed Couple Process Pumps

Capacities : Up to 1400 GPM (318 m³/h)
Heads : Up to 700 feet (213 m)
Temperatures : Up to 200° F (93° C)
Pressures : Up to 375 PSIG (2586 kPa)

APPLICATION

- Condensate return
- Acid unloading
- Monomer/Polymer transfer liquid nitrogen
- Liquid ammonia
- Caustic transfer
- Reflux and light tower bottoms waste acid recovery
- Pickle liquor circulation chilled water
- Filter feed



A196CV-CC SERIES

Non-Clog Closed Couple Process Pumps

Capacities : Up to Up to 2700 GPM (610 m³/h)
Heads : Up to 440 feet (134 m)
Temperatures : Up to 200° F (93° C)
Pressures : Up to 285 PSIG (1965 kPa)

APPLICATION

- Hydropulper pump
- Filter slurries
- Crystal suspensions
- Latex
- Fibrous wastewater
- Polystyrene beads
- Screen rejects
- Fruit and vegetable suspensions
- Dye liquor
- Long fibre white water
- Primary cleaner pump
- Sodium chlorate slurry

Pulp and Paper Stock / Heavy Duty Process Pumps

COMMON FEATURES

- Back Pull-Out
- Fully Open Impeller
- External Impeller Adjustment
- Renewable Wear Parts
- Maximum Sealing Flexibility
- Heavy Duty Construction
- Maximum Parts Interchangeability
- Dynamic Sealing Option is Available for Slurry

MOC

- Ductile Iron
- 316 SS
- 317 SS / 317L SS
- CD4MCuN
- Alloy 20
- 6-7% Moly
- Hastelloy B & C
- Titanium



A175 SERIES

Paper Stock Process Pumps

Capacities	: Up to 28,000 GPM (6360 m³/h)
Heads	: Up to 350 feet (107 m)
Temperatures	: Up to 450°F (232° C)
Pressures	: Up to 285 PSIG (1965 kPa)



A180 SERIES

Heavy Duty Paper Stock Process Pumps

Capacities	: Up to 45,000 GPM (10,220 m³/h)
Heads	: Up to 410 feet (125 m)
Temperatures	: Up to 446° F (230° C)
Pressures	: Up to 232 PSIG (16 bar)

APPLICATION

Pulp & Paper :

- Paper stock through 6% consistency,
- Black liquor,
- Hydropulper and Broke service,
- Low NPSH digester circulation,
- Blow tank to screens,
- Primary screens rejects
- High density chlorine tower to washer
- Flotation cell circulation

Chemical :

- Evaporator and Reboiler circulation, Slurry services

Petroleum :

- Corrosive/Abrasive crude, Catalyst slurry, Coke fines

Steel :

- Mill descaling, Waste treatment, Venturi scrubber, Electro-Galvanizing recirculation

Food :

- Fruit pulps, Grain mash and Spent grains, Evaporator recirculation, Beet and Cane sugar, Corn products

General :

- Waste treatment, Air pollution abatement, Acid mine water, Textile slurries' hot oil, Mining And Mineral processing

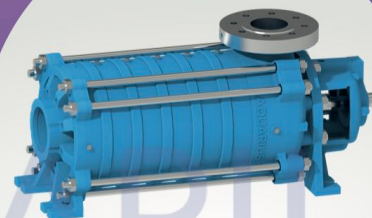
Ring Section Multistage Process Pumps

MOC

- Cast Iron
- Carbon Steel
- 316 SS
- CD4MCuN

MOC

- 12% Chrome Steel
- 316 SS
- CD4MCuN
- Super Duplex



A355 SERIES

Multistage Process Pumps

Capacities	: Up to 1,500 GPM (340 m³/h)
Heads	: Up to 1640 feet (500 m)
Temperatures	: Up to 280°F (140° C)
Pressures	: Up to 800 PSIG (55 kPa)



A393 SERIES

High Pressure, Multistage Ring Section Pumps

Capacities	: Up to 3300 GPM (750 m³/h)
Heads	: Up to 3300 feet (1000 m)
Temperatures	: Up to 400° F (204° C)
Pressures	: Up to 1650 PSIG (114 bar)

APPLICATION

- Boiler feed
- Condensate return
- Deaerator
- Reverse osmosis
- Shower/Spray service
- Mine de-watering
- Cleaning systems
- Seal water booster

- Product transfer
- Reactor feed
- Pressure boosting
- Cogeneration
- High pressure cleaning
- Snow making
- Condensate
- Mine dewatering

Horizontal Split Case Pumps

COMMON FEATURES

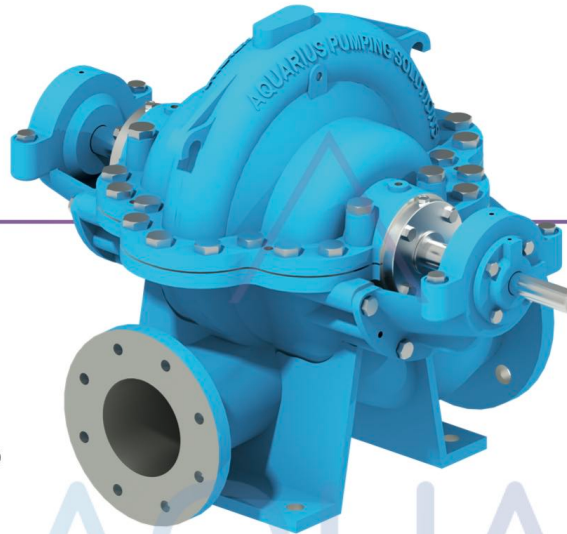
- Double Suction / Dual Volute
- Horizontally Split Casing
- Replacable Wear Rings for Casing and Impellers
- Sealing Flexibility
- Maximum Parts Interchangeability

MOC

- Cast Iron
- 316 SS
- CD4MCuN
- 303 SS

APPLICATION

- Process
- Pulp & Paper
- Primary metals
- Municipal
- Utilities
- Power generation
- Marine
- General



A410 SERIES

Small Capacity Double Suction Pumps

Capacities : Up to 8,000 GPM (1817 m³/h)
Heads : Up to 570 feet (174 m)
Temperatures : Up to 350° F (177° C)
Pressures : Up to 250 PSIG (1724 kPa)

A409 SERIES

Medium Capacity, Single Stage, Double Suction Pumps

Capacities : Up to 12,000 GPM (2725 m³/h)
Heads : Up to 850 feet (260m)
Temperatures : Up to 250° F (120° C)
Pressures : Up to 400 PSIG (2758kPa)

A420 SERIES

Large Capacity, Single Stage, Double Suction Pumps

Capacities : Up to 74,000 GPM (16,807 m³/h)
Heads : Up to 500 Ft. TDH (152 m)
Temperatures : Up to 350°F (176°C)
Pressures : Up to 330 PSIG (2275 kPa)

A498 SERIES

Xtra Large Capacity, Single Stage, Double Suction Pumps

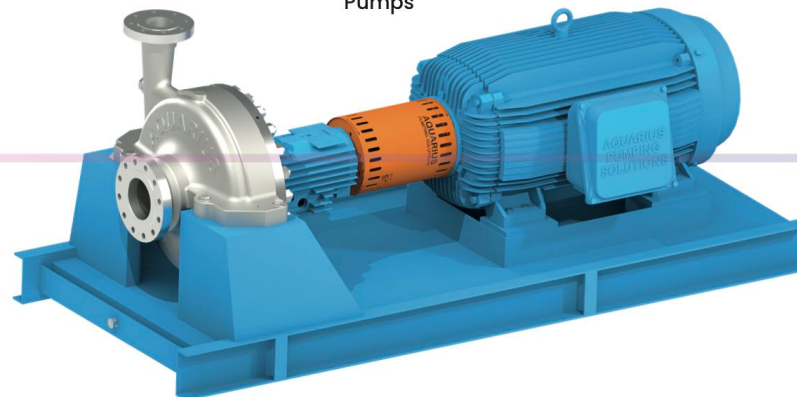
Capacities : Up to 90,000 GPM (20,445 m³/h)
Heads : Up to 700 Ft. TDH (213 m)
Temperatures : Up to 350°F (176°C)
Pressures : Up to 318 PSIG (2192 kPa)

API 610 (OH2 TYPE) Pumps

PUMPING SOLUTIONS

A700 SERIES

Single Stage Overhung Process Pumps



COMMON FEATURES

- **API 610** – Full Compliance with 10th, 11th and 12th Edition.
- **Tangential Discharge** – Maximum Hydraulic Efficiency.
- **Finned Bearing Frame** – Accommodates High Temperatures Without Need for Cooling Water.
- **Seal Chamber** – Meets Dimensional Requirements of API 610 and API 682.
- **Bearings and Seal Chamber Cooling** – For Extremely High Temperature Services.
- **Mechanical Design** – Extra Heavy Shaft and Bearings.
- **Back Pull-out Construction** – Designed for One Craft Maintenance.
- **Dual Volute Casings** – 3-Inch Discharge and Larger.

MOC

- Carbon Steel
- 12% Chrome Steel
- 316 SS
- 316L SS
- CD4MCuN
- Super Duplex

APPLICATION

- Column reflux
- Column charge
- Column bottoms
- Reboiler
- Stabilizer overhead
- Injection
- Fuel blending
- Heat transfer
- Slop gas oil
- Heavy gas oil
- Stripper overhead
- Offsite hydrocarbon transfer
- Hot oil
- Reactor feed
- Scrubber circulation
- Tower bottoms

Capacities : Up to 8500 GPM (1930 m³/h)
Heads : Up to 1200 feet (360 m)
Temperatures : Up to 800° F (425° C)
Pressures : Up to 870 PSIG (60 Bar)

Self-Priming Trash Pumps for Solid Handling

MOC

- Ductile Iron
- 316 SS
- CD4MCuN



AST SERIES

DESIGN FEATURE:

- Uses Shims for Adjustment.
- Requires Pry Bars to Remove the Coverplate.
- Uses a Single Lip Seal with a Vented Pipe Plug.
- Requires Removing the Vent Plug to Check Seal Oil.
- Needs Pry Bars for Assembly Removal.
- Uses a Service Tee for Heater Probe Insertion.



AST+ SERIES

DESIGN FEATURE:

- External Seamless Adjustment
- Uses a Four-Point Attachment with an Extra O-Ring.
- Dual Protection of Bearing
- Solid Handling
(2 vane semi open solid handling impeller)
- Replacable Wearplate
- Easy-Grip Cover Plate Handle
- Uses a Discreet Heater Port on the Discharge Side.



ASU SERIES

DESIGN FEATURE:

- Reliable Performance
- Drive Variations
- Ease of Maintenance
- Traditional Impeller and Volute Design
- Made with Cast iron and Steel
- Suitable for Moderate Solids Handling Applications
- Effective Sealing



ASU+ SERIES

DESIGN FEATURE:

- External Seamless Adjustment
- Easy-Grip Cover Plate Handle
- High Efficiency Optimized for Energy Savings
- Advanced Priming System for Quick Starts
- Made with Stronger, Corrosion Resistant Materials
- Enhanced Sealing to Reduce Leakage
- Reinforced Shafts and Bearings for Durability

APPLICATION

Max Capacity : Up to 3400 GPM (215 lps)
Max Head : Up to 192 feet (59 m)
Max Solids : Up to 3" (76 mm)
Max Temperature : Up to 160° F (71° C)
Pressures : Up to 86 PSIG (593 kPa)

- Construction site(Dewatering)
- Agricultural
- Sewage and wastewater system
- Industrial
- Mining
- Stormwater drainage system
- Flood Control

APPLICATION

Max Capacity : Up to 1500 GPM (95 lpm)
Max Head : Up to 207 feet (63 m)
Max Solids : Up to 1.25" (32 mm)
Max Temperature : Up to 160° F (71° C)
Pressures : Up to 150 PSIG (10.3 bar)

- Water supply system
- Irrigation
- Sewage and wastewater system
- Chemical transfer
- Marine
- Agricultural
- Industrial

UTILITY PUMPS



AISO SERIES

ISO Process Pumps

FEATURES

- Full ISO 5199 \EN 25199 Compliance Engineered Seal Chamber for Extended Seal Life
- Heavy Duty Bearing Frame, with Large Oil Sump Extends Bearing Life
- Enclosed Impeller with Optional Wear Ring for Renewable Efficiency

MOC

- Ductile Iron
- Carbon Steel
- 316 SS
- Duplex SS
- Super Duplex
- Alloy 20
- Hastelloy B & C
- Titanium
- Nickel
- Inconel

Flows : Up to 450 m³/h (1980 GPM)
Heads : Up to 160m (514 feet)
Temperatures : From -40°C to 280° C (-40°F to 530°F)
Pressures : Up to 25 Bar (360 PSI)

APPLICATION

- Chemical process
- Food technology
- Metal processing
- General industry
- Nuclear power plants
- Water treatment
- OEM
- Waste disposal/recycling industries
- Pulp preparation
- Pharmaceutical & Petrochemical industry



ATHERM SERIES

Hot Oil/Water Pumps

DESIGN FEATURE:

- Finned Designed Power Frame Helps to Lower Temperature and Increase Pump Life
- Additional Flush Port Available in Bearing Frame for Mechanical Seal
- Cost Effective Solutions for Pumping a Thermic Fluid Like Hot Water and Hot oil
- High Temperature Range Operations
- Oil and Grease Lubrication Options Available
- Pressurized Hot Pumping Liquid Restricted by Throttling Bush Arrangement
- Suitable for Variable Speed Applications

MOC

- 316 SS
- Ductile Iron
- Duplex SS
- Alloy 20

Flows : Up to 450 m³/h (1980 GPM)
Heads : Up to 160m (514 feet)
Temperatures : From -30°C to 350° C (-22°F to 662°F) for oil, up to 180°C (356°F) for hot water.
Pressures : Up to 25 Bar (360 PSI)

APPLICATION

- Oil process industries
- Refinery
- Chemical industry
- Food & Beverage industry
- Petrochemical industry
- Fossil fueled power stations
- Alcohol industry



AMP (AFLO1) SERIES

End Suction Centrifugal Pumps

DESIGN FEATURE:

- Aemi-Open Impeller Design
- Available in Close Coupled Version
- Economical Option for Small Utility Operation
- Tangential Discharge for Higher Efficiency
- Threaded Suction and Discharge Connection

MOC

- 316 SS
- 304 SS

Flows : Up to 100 GPM / (378 lpm)
Heads : Up to CC - 145 ft (44 m)
Hydraulic - Up to 350 ft (106 m)
Pedestal - 145 ft (44 m)
Temperatures : From -20°C to 180°C (-29°F to 82°F)
Pressures : Up to 50 to 150 PSI

APPLICATION

- Agricultural
- Commercial
- Industrial
- Marine
- OEM



APAC SERIES

End Suction Centrifugal Pumps

DESIGN FEATURE:

- Enclosed Impeller Design
- Economical Option for Small Utility Operation
- Tangential Discharge for Higher Efficiency
- Threaded Suction and Discharge Connection

MOC

- 316 SS
- Ductile Iron

Flows : Up to 6000 GPM / (1363 m³/h)
Heads : Up to CC - 400 ft (173 PSI)
Temperatures : Upto 135°C (275°F)
Discharge size : 1" to 10"
Horsepower : Available in various sizes upto 300HP

APPLICATION

- Water treatment
- Fire protection systems
- Chemical process
- Food technology
- Agricultural
- Pharmaceuticals
- Marine and Offshore
- HVAC systems



Our company is a provider of products and services to the petrochemical, oil, power and municipal industries. We serve customers in the USA and throughout the world. We have a skilled staff, offer quick delivery time, and hold a large inventory to meet your company's needs.



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