



Heavy-Duty End Suction Centrifugal Pumps

GRISWOLD E,F&G
Centrifugal Pump



Where Innovation Flows

griswoldpump.com

CENTRIFUGAL PUMPS



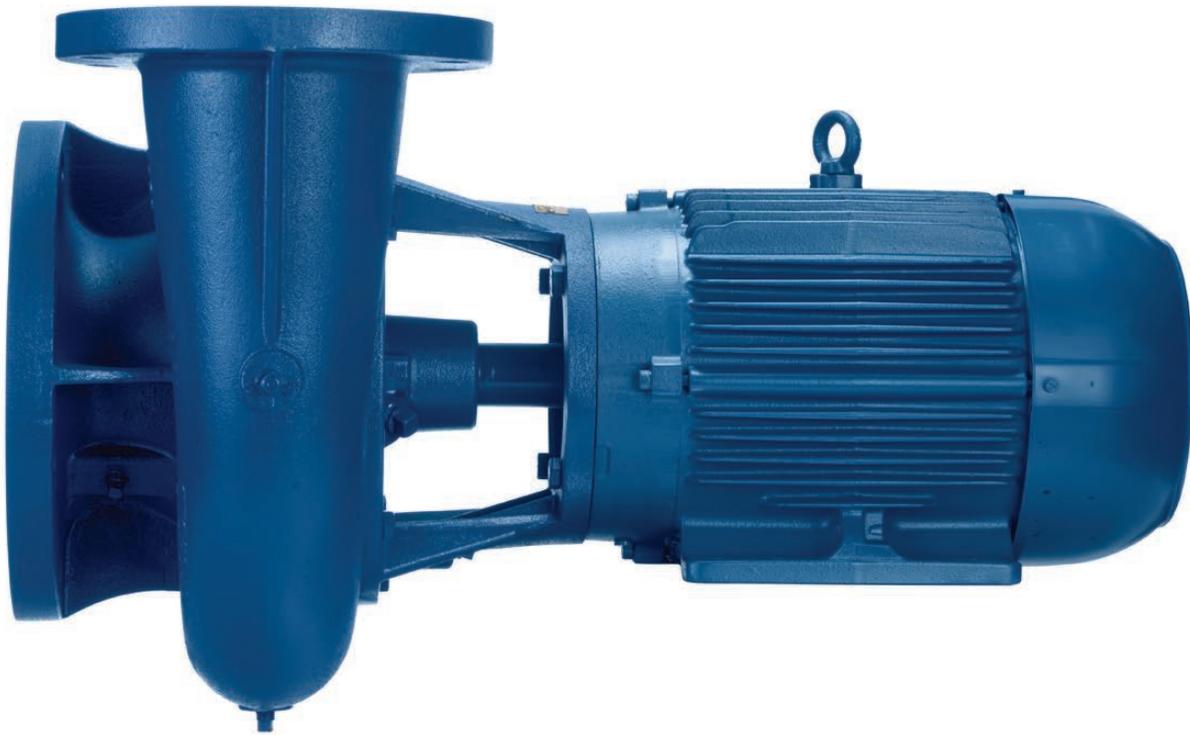
Who We Are

Griswold™ Centrifugal Pumps

Griswold™ is a premier manufacturer of centrifugal pumps and baseplate systems. With engineering expertise, lean manufacturing, testing capabilities, and exceptional customer support, Griswold meets its customers' most demanding application requirements, all the while minimizing project costs.

E,F&G Series Pumps

Backed by 70 years of experience and commitment to manufacturing quality centrifugal pumps, Griswold E,F&G Series pumps have been specifically designed with versatility in mind. Thanks to their efficient performance, extensive features, long life and easy maintenance, these pumps are ideal for use in a wide variety of water pumping applications. They feature capacities up to 3,000 GPM, heads to 310 ft., and a broad range of sizes and configuration options.



E,F&G SERIES EXTENDED EQUIPMENT LIFE

Every piece of Griswold equipment has a proven track record of performance and extended service life. In fact, many Griswold customers find their pumps operating just as efficiently in year 30 as the day the pump went into service. To illustrate just how much we stand behind the performance of our equipment, every Griswold E,F&G pump comes with a five-year Limited Warranty from date of purchase.

COMPARE

E,F&G Series

other brands

F SERIES

other brands

COMPARE

F SERIES NSF® Certification



Griswold F Series pumps have been specially engineered and precision built to comply with the strict standards and procedures imposed by the NSF®. This means that every aspect of a Griswold F Series pump's development – from extensive product testing and material analyses to unannounced plant inspections – is thoroughly evaluated before it can earn this certification. Most importantly, NSF certification is not a one-time event, but involves regular on-site inspections of manufacturing facilities and regular re-testing of products to ensure that they continue to meet the same high standards required to maintain certification over time.

Specifically, F Series pumps meet NSF/ANSI Standard 50 (NSF 50), which establishes the requirements for the equipment used in the water circulation systems of swimming pools, spas and hot tubs. Among other requirements, NSF 50 states that every centrifugal pump is required to withstand a hydrostatic pressure of 150% of the maximum working pressure, and that each pump must be sold with operating instructions that must include a manufacturer's pump performance curve. In addition, NSF 50 includes a test method to verify pump performance curves.



ZOOS & PARKS



IRRIGATION



FOUNTAINS

MARKETS SERVED

PROCESS

Chemical process centrifugal pumps from Griswold feature premium upgrades from standard ANSI pumps and are perfectly suited to demanding applications. With more than 70 years experience in the market, Griswold has the knowledge, expertise and products to support all your needs.

Typical Applications Handled:

- Chemical Processing
- Textile
- Mining
- Grain Processing
- Petrochemical
- Automotive
- Pulp & Paper
- Food Processing

WATER/WASTEWATER

Griswold plays a critical role in handling fluids used in the water and wastewater industries. Whether it's the chemicals used to treat water, irrigation, or ornamental fountains, the experts at Griswold have the solution you need.

Typical Applications Handled:

- Wastewater Systems
- HVAC Systems
- Boilers
- Cooling Towers
- Water Treatment
- Collection & Disposal
- Fountains
- Water Parks
- Zoos
- Commercial Swimming Pools
- Marine
- Commercial & Agricultural Irrigation







TECHNOLOGY: CENTRIFUGAL

E,F&G Series Centrifugal Water Pumps

E,F&G centrifugal pumps are designed for versatility. With capacities up to 3,000 gpm, heads to 310 ft., a broad range of sizes and configuration options, and extensive performance features, the E,F&G Series proves ideal for most water pumping applications.

Engineered
for **Flexibility &
Durability**



Features and Benefits:

- NSF® 50 Certified (F Series only)
- Heavy-duty, robust design
- Epoxy coated interior (optional feature)
- Flanged connections in accordance with ANSI B16.1
- Back pull-out design for ease of maintenance
- Close-coupled NEMA electric motors available
- Frame mounted with coupling to: electric motors, engines, steam turbines, or belt-driven options
- Cast iron liquid path
- Bronze fitted with renewable wear ring
- Single-piece enclosed impellers
- Component mechanical seals

Technical Data:

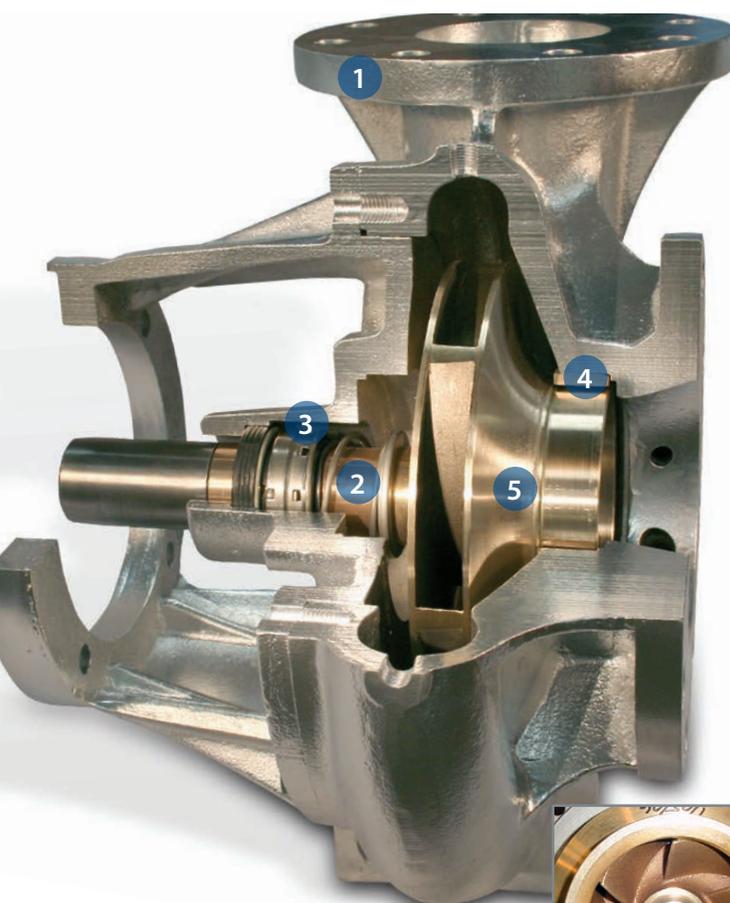
- Close-coupled options
- ANSI power frame mounted
- Internal coatings available
- Base mounted options

Performance Data:

- Max. flow: 682 m³/h (3,000 gpm)
- Max. delivery pressure: 9.3 bar (134 psig)
- Max. working temperature: 82° C (180° F)

Certifications & Associations:





1 Flanged Cast Iron Casing

The Class 30-grade iron casing is tapped for a drain, vent and pressure gauge. It includes a suction wear ring and can be rotated to various discharge positions. Standard ANSI flange-type suction and discharge nozzles facilitate installation and maintenance.

2 Renewable Bronze Shaft Sleeve

The renewable bronze shaft sleeve insulates the shaft from abrasion and contact with pumped liquids.

3 Mechanical Shaft Seals

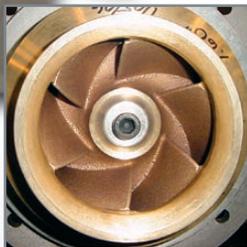
Mechanical shaft seals feature carbon/ceramic/Buna and stainless-steel components, eliminating maintenance and adjustment problems. A bypass line on some models helps purge abrasives from the seal chamber.

4 Renewable Bronze Wearing Rings

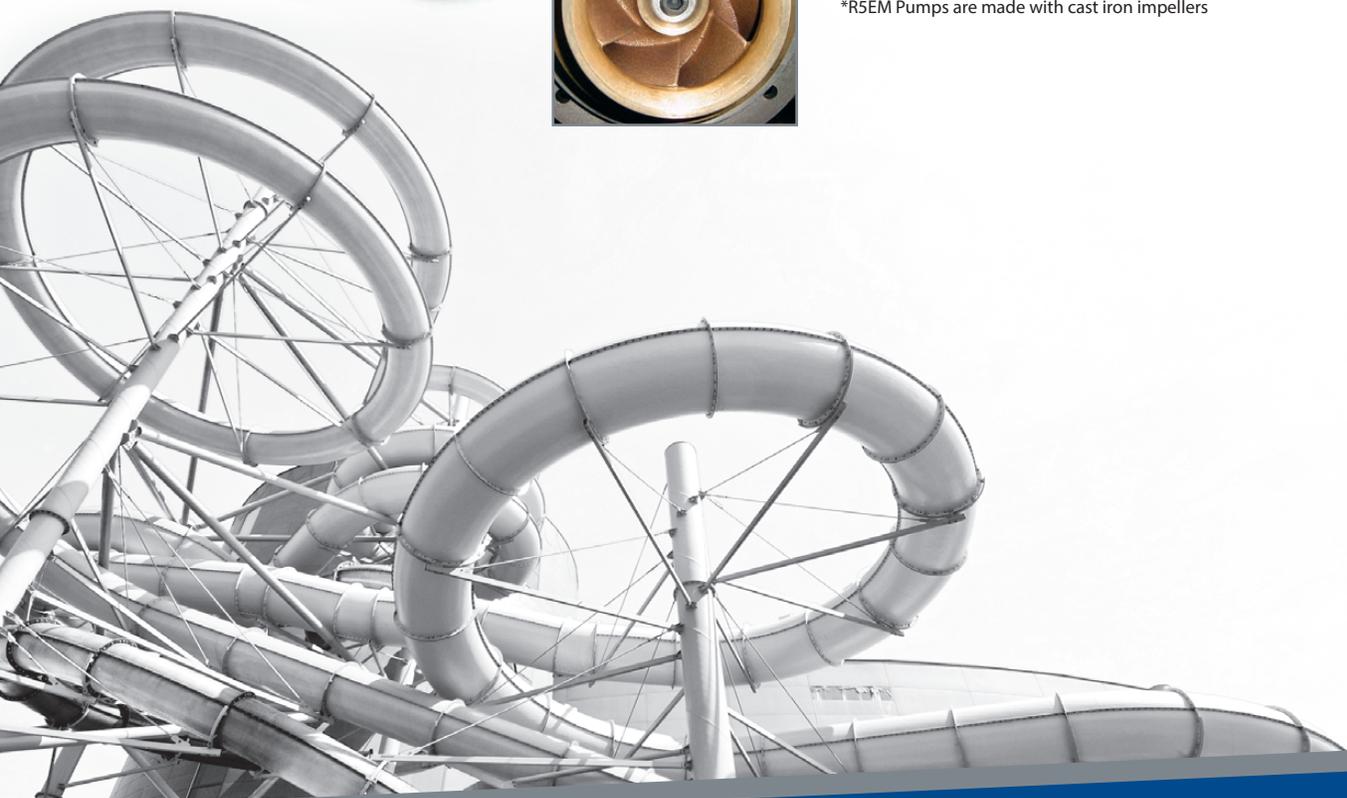
Precision-made bronze wearing rings are pressed into the casing and/or adapter as required and are renewable, as well as easily replaced in the field.

5 Single-Piece Enclosed Impeller

Made of cast bronze* and keyed to the shaft, the single-piece enclosed impeller is precision balanced with the diameter cut for the specific condition point. On high-head units, the impeller back is drilled for hydraulic balance, limiting thrust load and reducing pressure in the sealing area.



*R5EM Pumps are made with cast iron impellers



E,F&G Options & Upgrades

Versatile Solutions For
Liquid Pumping Applications

CHOOSE FROM TWO STANDARD CONFIGURATIONS:

Close Coupled Configuration

E,F&G pumps will be provided with NEMA JM or JP close-coupled electric motors. These motors feature a short shaft overhang that reduces the effects of radial stress on motor bearings. In addition to open drip-proof motors, E,F&G pumps can be coupled with totally enclosed fan-cooled motors.



Griswold Standard Oil-Lubricated Power Frame

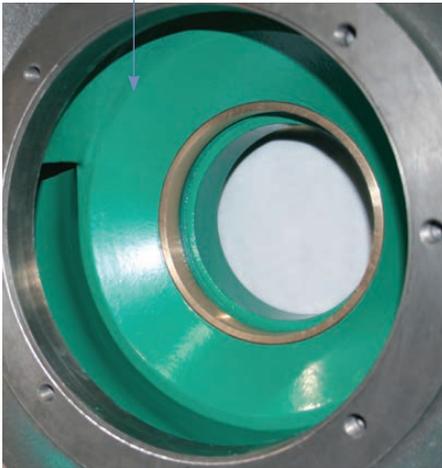
Standard Power Frame Feature Comparison:		
	Griswold	Competition
Oil Bath Lubrication	YES	NO
Oversized Shaft & Bearings	YES	NO
Magnetic Drain Plug	YES	NO
INPRO® Lab Seals	YES	NO
Epoxy Coated Interior	YES	NO
Clean Room Assembly	YES	NO

Frame Mounted Configuration

Griswold also offers flexible-coupling to electric motors, including open drip-proof, totally enclosed and explosion-proof motors. In addition, we provide engine, steam turbine and belt-driven options. Our extra heavy-duty cast iron frame includes the most advanced features available in oil-lubricated bearing frames for meeting extremely demanding industrial applications. Our standard features include INPRO® labyrinth oil seals, a 1-inch oil sight glass, oversized shaft and bearings, vibration monitoring locations and external cooling capability. Grease lubrication is optional.

Coating Options

3M™ Scotchkote™ 134 Fusion Bonded Epoxy is designed for corrosion protection of metal components. Because its bonding process provides superior adhesion and coverage, this specialized epoxy coating is particularly suited for the inside of pumps where a smooth, corrosion-resistant surface is required. E,F&G pumps can be coated on the interior, exterior, or both.



Seal Options

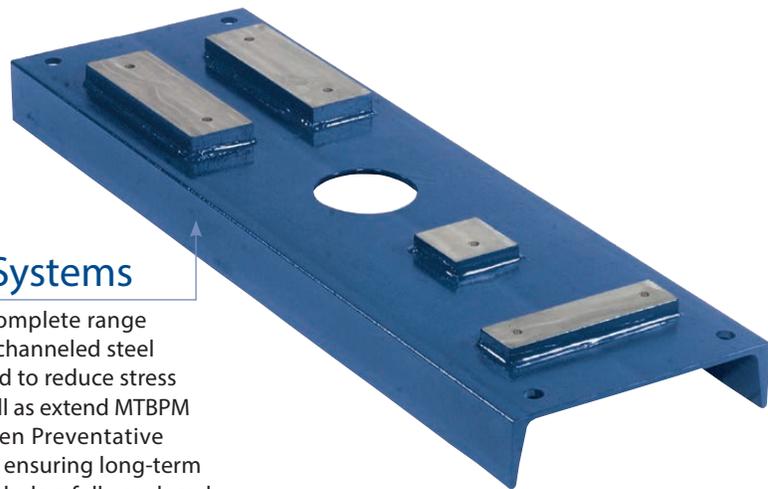
While our standard mechanical seal is comprised of carbon/ceramic/Buna, we also offer the following alternatives for more abrasive/corrosive and high-temperature applications:

- Carbon Ni-Resist Viton®
- Carbon Silicon Carbide Viton®
- Silicon Carbide Silicon Carbide Viton®
- Silicon Carbide Tungsten Viton®

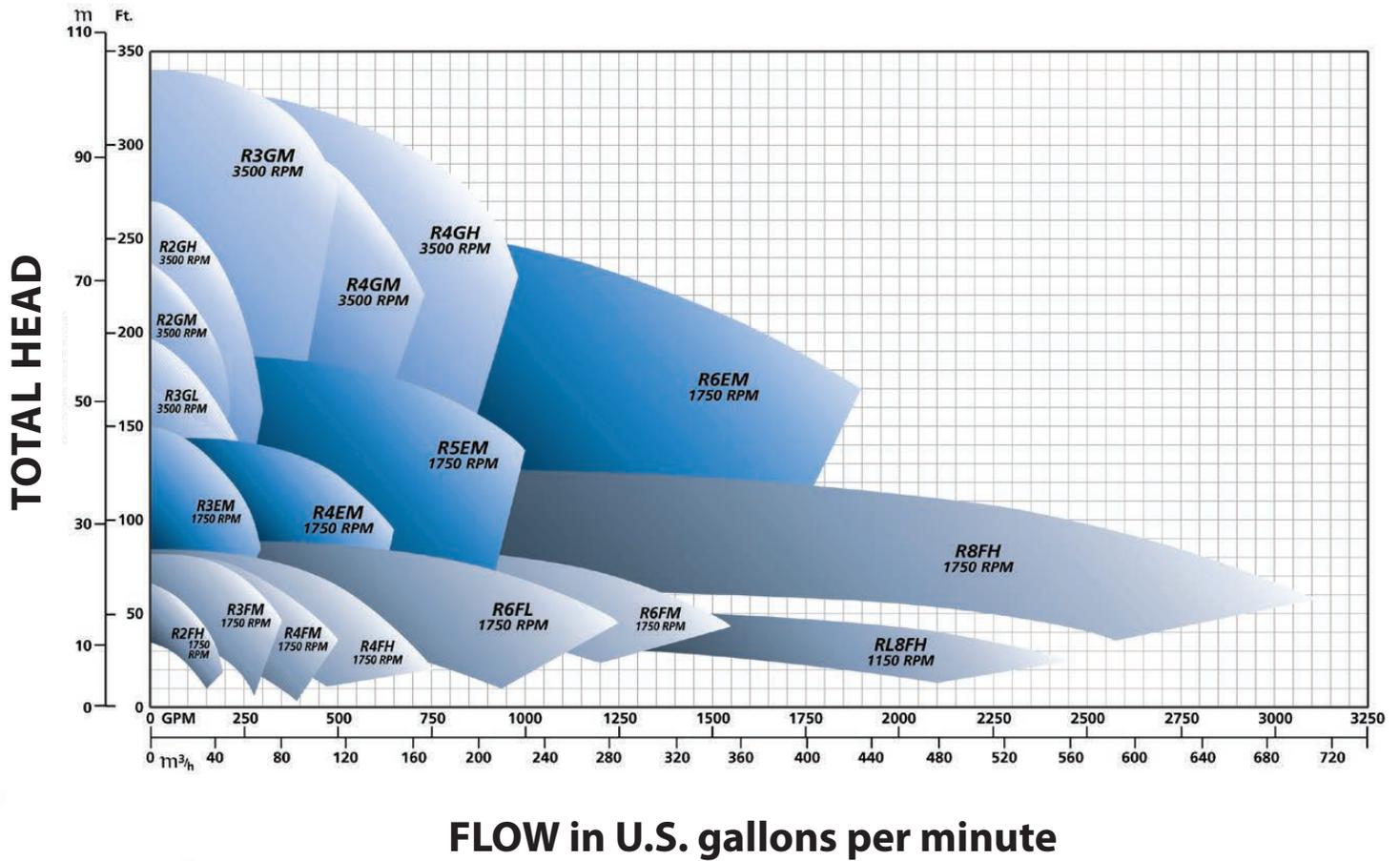


Baseplate Mounting Systems

Griswold offers a complete range of pre-engineered channelled steel baseplates designed to reduce stress and vibration as well as extend MTBPM (Mean Time Between Preventative Maintenance), thus ensuring long-term durability. Bases include a fully enclosed steel coupling guard as standard, with optional non-sparking coupling guard.



E,F&G Performance

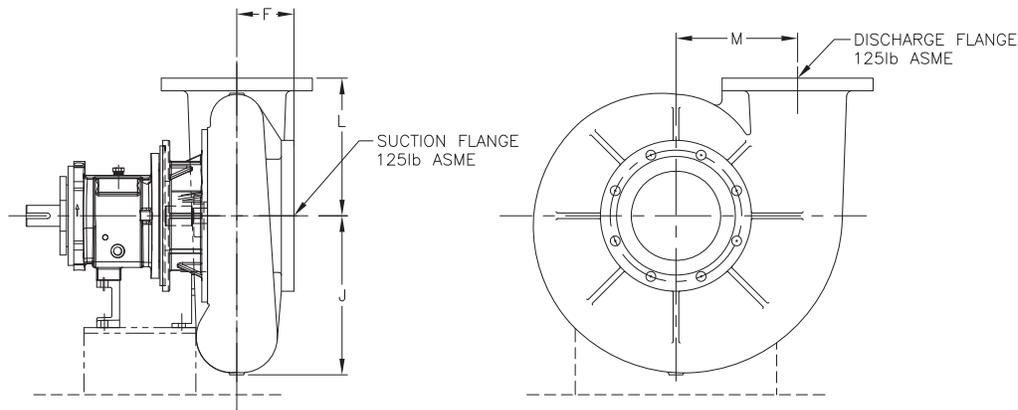


Pressure and Temperature Capability

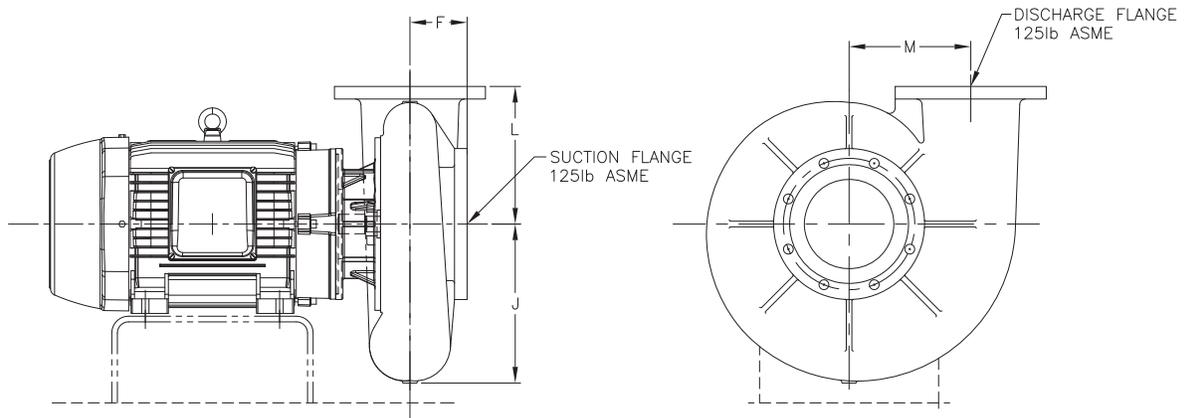
For Temperatures up to 250°F

- E Series 150 psig
- F Series (through 6") 100 psig
- 8FH Series 60 psig
- G Series 175 psig

Frame-Mounted Dimensions



Close Coupled Dimensions



Pump End Dimensions

	Suction	Discharge	F	J	L	M
R3EM	4"	3"	3-9/16	8	8-7/8	6-3/4
R4EM	5"	4"	5-1/16	9-1/2	11-1/4	7-3/4
R5EM	6"	5"	5-9/16	10-7/8	12-9/16	8-15/16
R6EM	8"	6"	8	12-3/8	14-1/4	10
R2FH	3"	2"	3-5/8	6	6-1/8	4-3/4
R3FM	4"	3"	3-5/8	7-3/8	8-1/2	5-13/16
R4FM	5"	4"	4-1/8	8-1/8	7-3/4	6-7/16
R4FH	5"	4"	4-1/8	8-1/8	7-3/4	6-7/16
R6FL	8"	6"	6-11/16	9-3/8	9	7-1/4
R6FM	8"	6"	6-11/16	9-3/8	9	7-1/4
RL8FH	8"	8"	5-1/8	14-1/4	12-5/16	10-7/8
R8FH	8"	8"	5-1/8	14-1/4	12-5/16	10-7/8
R2GH	3"	2"	3-5/8	6	6-1/8	4-3/4
R2GM	3"	2"	3-3/8	5-7/8	6-1/16	4-13/16
R3GL	4"	3"	3-3/8	7-3/8	8-1/2	5-13/16
R3GM	4"	3"	3-5/8	7-3/8	8-1/2	5-13/16
R4GM	5"	4"	4-1/8	8-1/8	7-3/4	6-7/16
R4GH	5"	4"	4-1/8	8-1/8	7-3/4	6-7/16

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