850 Series

PRODUCT BROCHURE



PSG a DOVER company

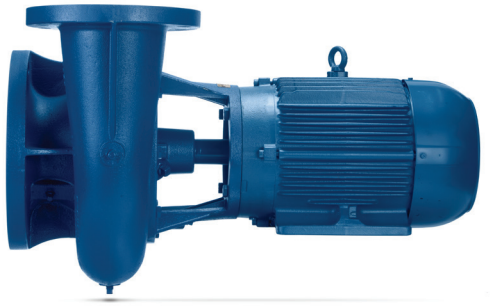
GRISWOLD

Where Innovation Flows



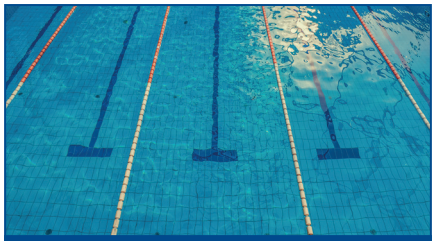
Griswold™ Centrifugal Pumps

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.



850 Series Industrial Water Pumps

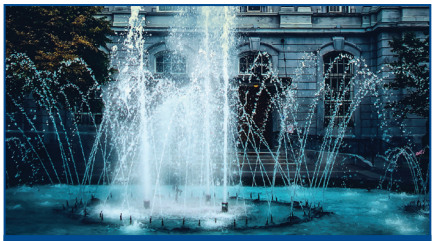
Backed by 70 years of experience and commitment to manufacturing quality centrifugal pumps, Griswold 850 Series pumps have been specifically designed with versatility in mind. Thanks to their efficient performance, extensive features, long life and easy maintenance, these pumps are ideal for use in a wide variety of water applications. Griswold 850 Series pumps feature capacities up to 3,850 gpm (874 m3/hr), heads to 430 ft (131 m), and a broad range of sizes and configuration options.



COMMERCIAL SWIMMING POOLS



WATER PARKS



WATER FEATURES



INDUSTRIAL SERVICES



IRRIGATION



POTABLE WATER

Engineered for Flexibility and Durability

DESIGN FEATURES:

- NSF® 50 and NSF® 61 Certified
- Heavy-duty, robust design
- Flanged connections in accordance with ASME B16.1
- Single-piece enclosed impellers
- Back pull-out design for ease of maintenance
- Component mechanical seals
- Iron liquid path
- Renewable lead-free bronze wearing rings
- Close-coupled or frame-mounted options
- Close-coupled NEMA electric motors available
- Frame-mounted with coupling to: electric motors, engines, steam turbines, or belt-driven options
- Base mounted options
- Epoxy-coated interior (optional feature)

1 Flanged Iron Casing

The 850 Series 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 ASME B16.1 flange-type suction and discharge nozzles facilitate installation and maintenance.

2 Renewable Lead-Free Bronze Shaft Sleeve

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

3 Mechanical Shaft Seals

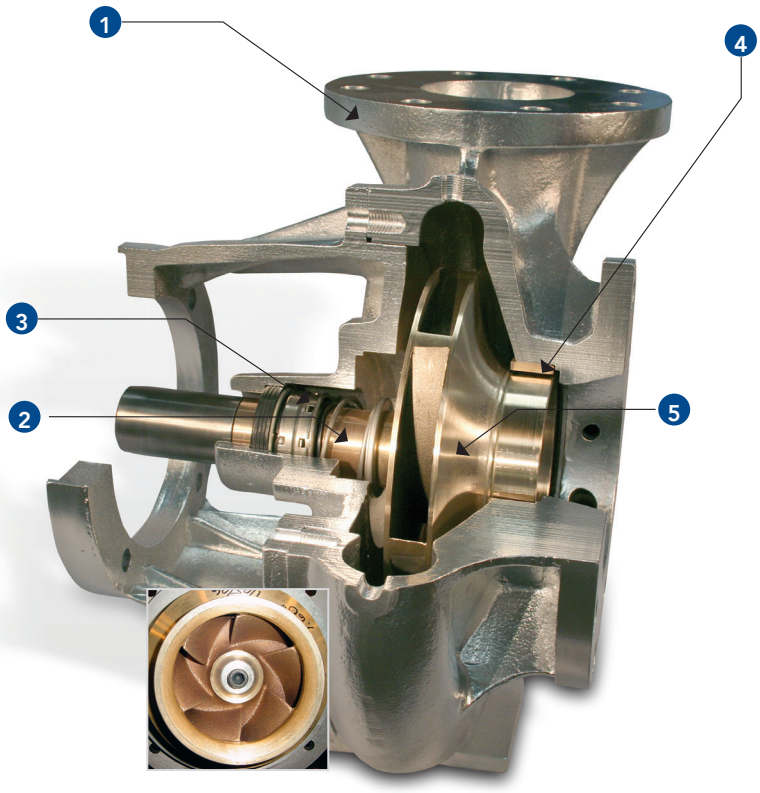
Mechanical shaft seals feature Carbon/Ceramic/Buna-N and Stainless-Steel components, eliminating maintenance and adjustment problems.

4 Renewable Lead-Free Bronze Wearing Rings

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

5 Single-Piece Enclosed Impeller

Made of aluminum 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. Aluminum bronze is a preferred material over stainless steel for its durability and superior corrosive resistance, especially in chlorine applications.



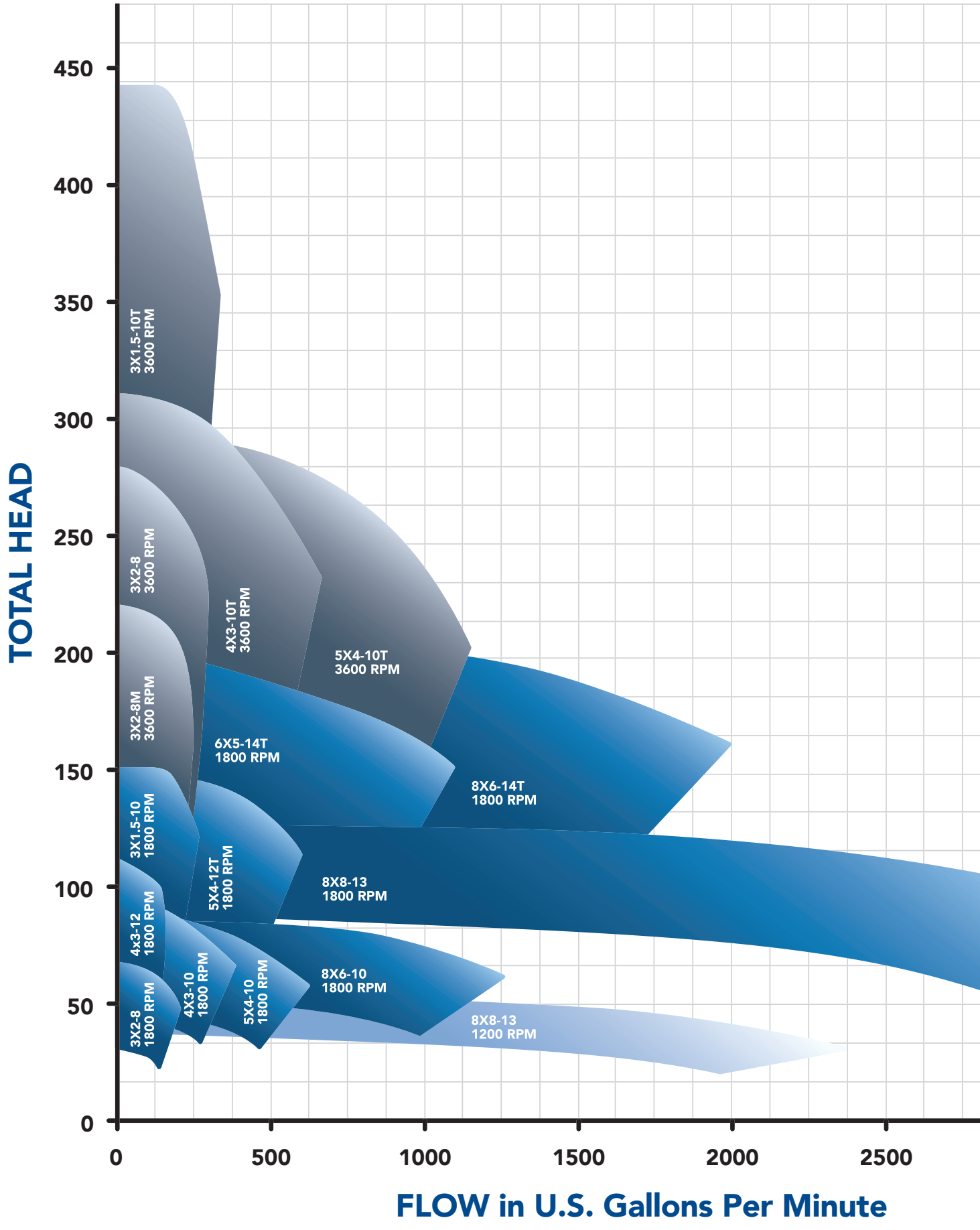
NSF® CERTIFICATIONS

Griswold 850 Series pumps are engineered and precision-built to meet NSF/ANSI Standard 50 (NSF 50) and NSF/ANSI Standard 61 (NSF 61). NSF 50-certified pumps are suitable for circulating systems in swimming pools, while NSF 61-certified pumps are ideal for applications that handle drinking water and drinking water chemicals. With NSF 50 and NSF 61 certifications, operators can have peace of mind that every aspect of Griswold 850 Series pumps — including extensive product testing and material analyses — has been thoroughly evaluated and verified before earning these qualifications.

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 850 Series pump comes with a two-year limited warranty from date of purchase.

PERFORMANCE CURVE





Technical Specifications

Max. Flow Rate:
3,850 gpm (874 m^3/hr)

Max. Head:
430 ft (131 m)

Max. Temperature:
120°F (49°C)

Available Materials:
Iron with Aluminum Bronze

850 Series Model	PEI_{CL}	Full Trim Impeller Diameter (in.)
850CC/3x1.5-10/4P	0.93	9.92
850FM/3x1.5-10/4P	0.92	9.92
850CC/3x1.5-10T/2P	0.93	9.92
850FM/3x1.5-10T/2P	0.92	9.92
850CC/3x2-8/2P	0.92	7.937
850FM/3x2-8/2P	0.91	7.937
850CC/3x2-8/4P	0.90	7.937
850FM/3x2-8/4P	0.90	7.937
850CC/3x2-8M/2P	0.93	7.5
850FM/3x2-8M/2P	0.92	7.5
850CC/4x3-10/4P	0.94	9.25
850FM/4x3-10/4P	0.93	9.25
850CC/4x3-10T/2P	0.97	8.7
850FM/4x3-10T/2P	0.96	8.7
850CC/4x3-12/4P	0.94	11.55
850FM/4x3-12/4P	0.93	11.55
850CC/5x4-10/4P	0.95	9.125
850FM/5x4-10/4P	0.94	9.125
850CC/5x4-10T/2P	0.96	8.625
850FM/5x4-10T/2P	0.95	8.625
850CC/5x4-12T/4P	0.99	11.5
850FM/5x4-12T/4P	0.99	11.5
850CC/6x5-14T/4P	0.96	13.438
850FM/6x5-14T/4P	0.96	13.438
850CC/8x6-10/4P	0.95	9.625
850FM/8x6-10/4P	0.95	9.625
850CC/8x6-14T/4P	0.95	14
850FM/8x6-14T/4P	0.95	14
850CC/8x8-13/4P	0.97	12.875
850FM/8x8-13/4P	0.97	12.875



Options And Upgrades

Versatile Solutions For Liquid Pumping Applications

Choose From Two Standard Configurations:

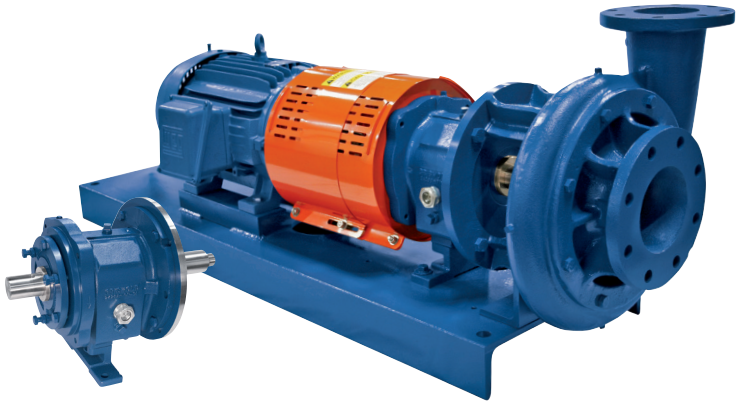
Close-Coupled Configuration

850 Series 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, 850 Series pumps can be coupled with totally-enclosed fan-cooled motors.



Frame-Mounted Configuration

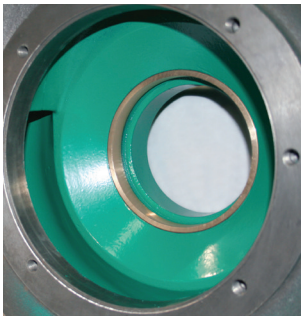
Griswold also offers flexible couplings to electric motors, including open drip-proof, totally-enclosed and explosion-proof motors. In addition, we provide engine, steam turbine and belt-driven options. Our extra heavy-duty cast iron frame includes the most advanced features available in oil-lubricated 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.



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





Coating Options

For corrosion protection, 850 Series pumps can be coated on the interior and/or exterior with 3M™ Scotchkote™ 134 Fusion Bonded Epoxy.



Seal Options

While our standard mechanical seal is comprised of Carbon/Ceramic/Buna-N, we also offer alternatives for more abrasive, corrosive and high-temperature applications:

- Standard: Carbon/Ceramic/Buna-N (NSF 50 & 61)
- Carbon/Ni-Resist/FKM (NSF 50)
- Silicon Carbide/Silicon Carbide/FKM (NSF 50)
- Carbon/Silicon Carbide/FKM (NSF 50 & 61)
- Silicon Carbide/Tungsten/FKM (NSF 50)



Baseplate Mounting Systems

Griswold offers a complete range of pre-engineered channeled 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.

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