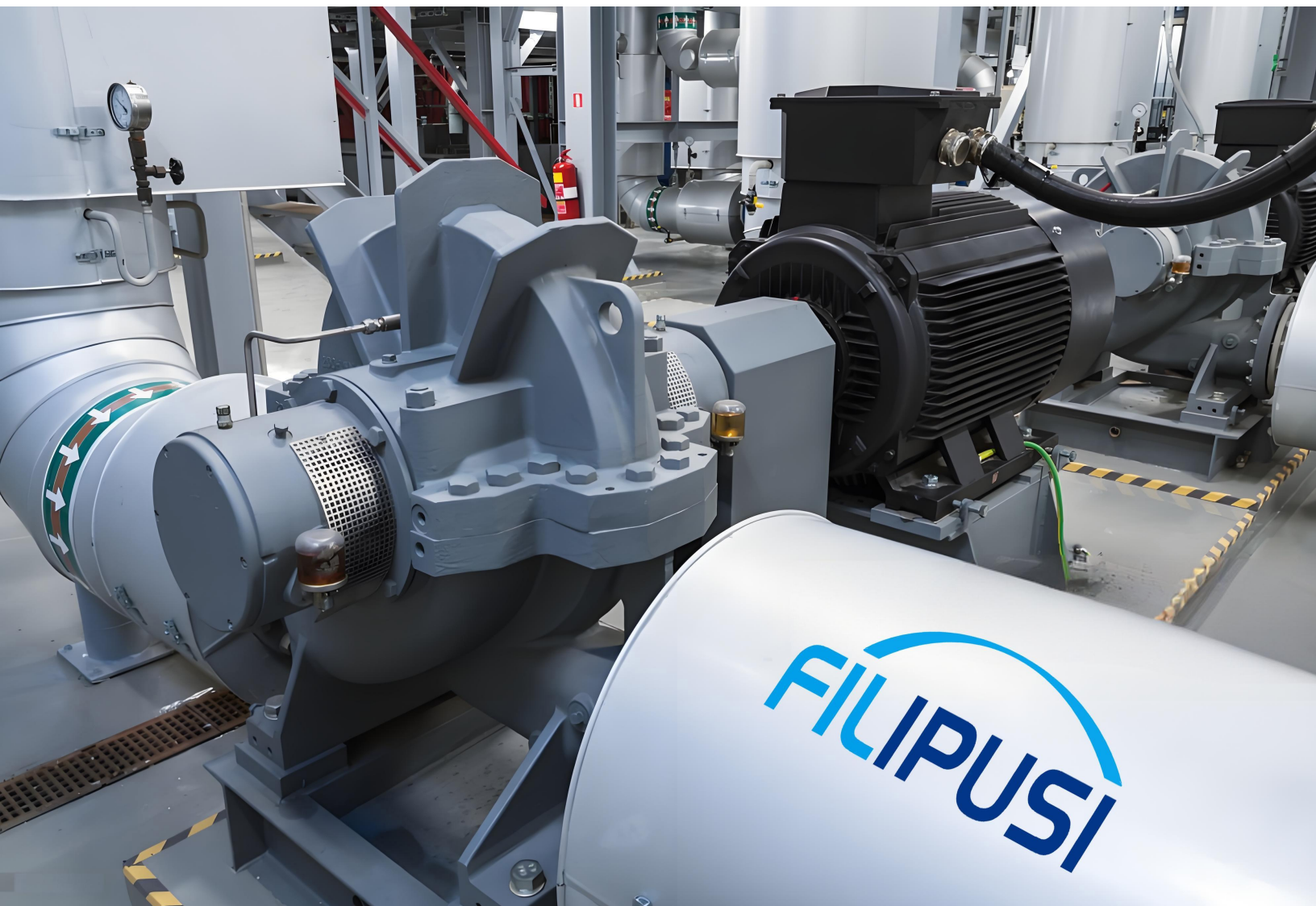




FLPS Single Stage, Double Suction Centrifugal Pumps (50 Hz)

RAISE YOUR EXPECTATIONS WITH THE IMPROVED DOUBLE SUCTION CENTRIFUGAL PUMP THAT DELIVERS MORE

Expect more with FILIPUSI FLPS pumps

With more models and more material options, the FILIPUSI FLPS single stage, double suction split case pump offers a broader hydraulic range and higher efficiency than our previous models. Built on a legacy of pump innovation, the FLPS replaces the AC Series 8100, 8300 and 9100 pump range. With flow rates exceeding 10,800 m³/hr [47,551 gpm], it can easily handle medium and large capacity systems and higher head. Manage extra-large applications with FILIPUSI's A-C Custom pump range.

Improved design and standard materials, as well as new proprietary mechanical seal options, take the FLPS beyond other pumps to increase operating efficiency, extend pump life and reduce lifecycle costs. More than 140 models make it easy to customize your FLPS split case pump to handle water and fluid management challenges for even the most demanding applications. The FLPS pump is backed by more than 170 years of experience



POWER
GENERATION



OIL & GAS



GENERAL
MANUFACTURING



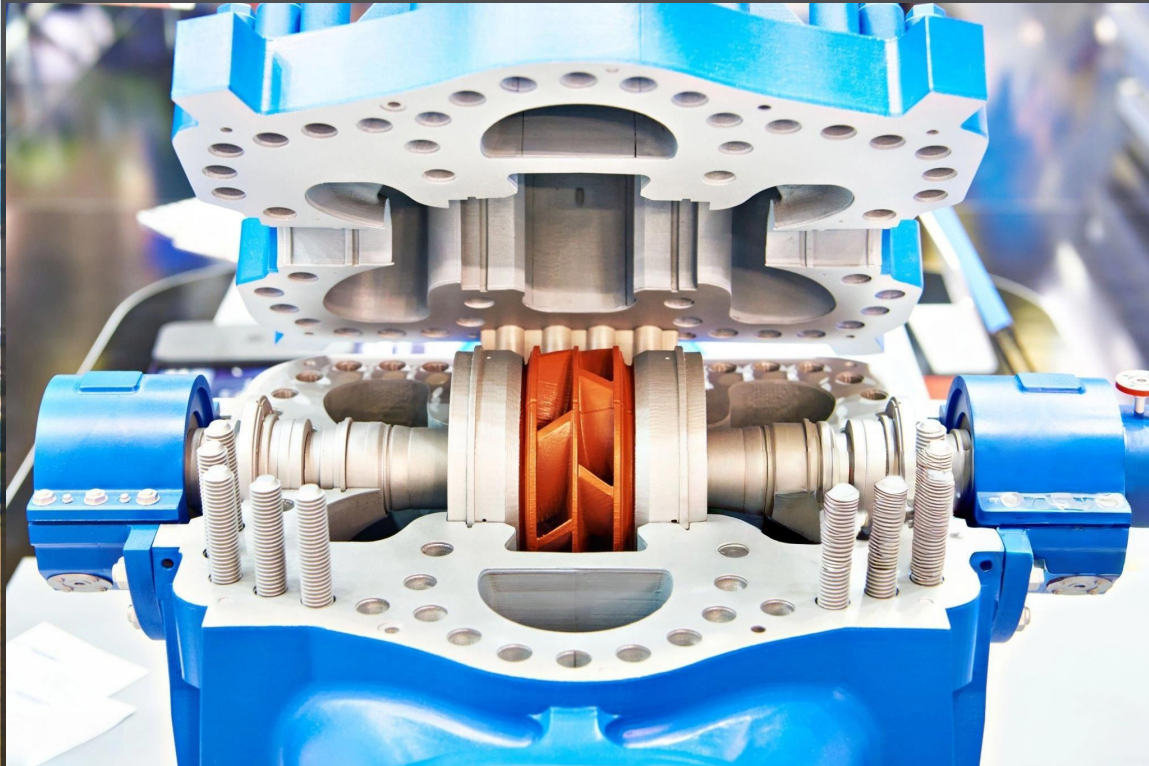
POOL & LEISURE



MINING



WATER UTILITIES

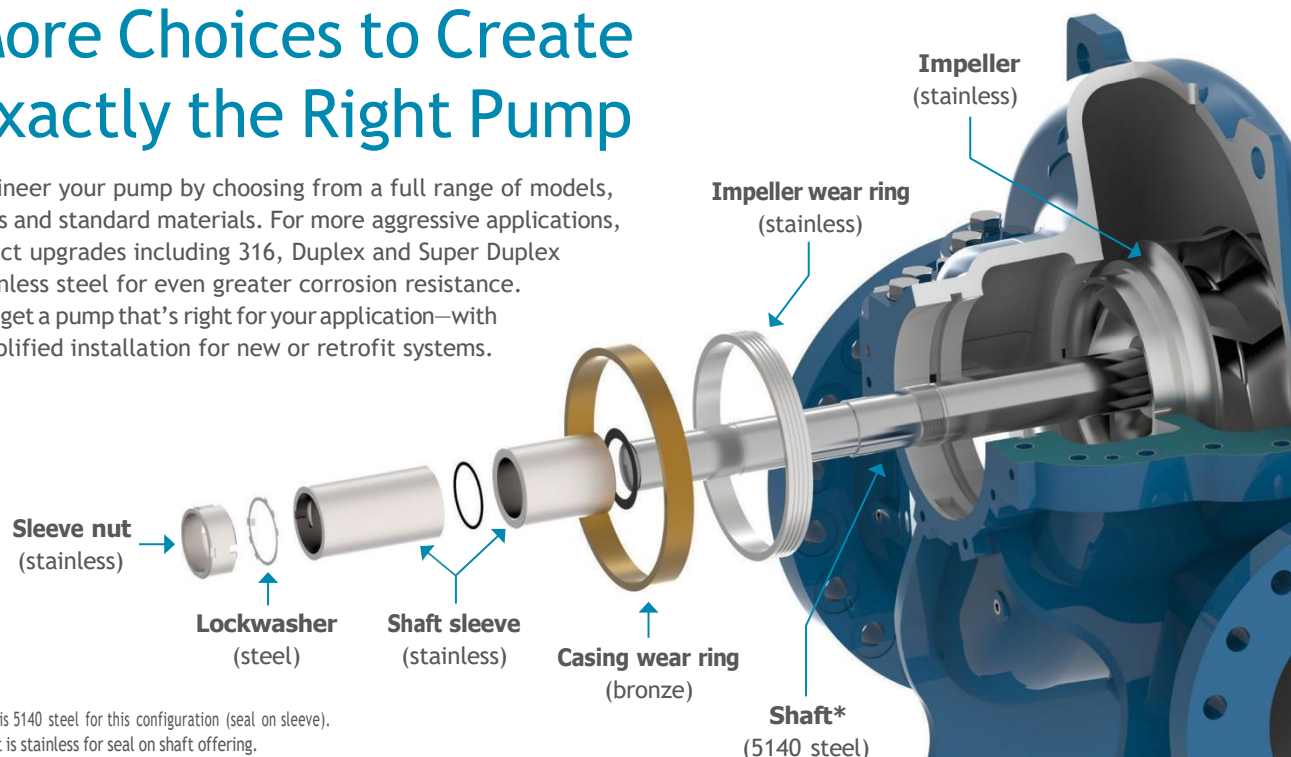


**The FILIPUSI FLPS
split case pump replaces:**



More Choices to Create Exactly the Right Pump

Engineer your pump by choosing from a full range of models, sizes and standard materials. For more aggressive applications, select upgrades including 316, Duplex and Super Duplex stainless steel for even greater corrosion resistance. You get a pump that's right for your application—with simplified installation for new or retrofit systems.



*Shaft is 5140 steel for this configuration (seal on sleeve).
Shaft is stainless for seal on shaft offering.

Component	Standard Option	Other Available Options
Casing	- Cast Iron No. 35 - Ductile Iron 65-45-12	304 SS 316 SS - Duplex SS - Super Duplex
Shaft (seal on shaft) ¹	420 SS	Duplex SS
Shaft (seal on sleeve)	5140	4135
Impeller	304 SS	316 SS - Duplex SS - Super Duplex
Casing wear rings	Bronze C90300	304 SS 316 SS - Duplex SS - Super Duplex - Nitronic 60
Impeller wear rings	304 SS	316 SS - Duplex SS - Super Duplex
Shaft sleeves	304 SS	316 SS - Duplex SS
Shaft sleeve nuts	304 SS	316 SS - Duplex SS
Packing ¹	PTFE	
Lantern ring ¹	Cast Iron	
Seal flush lines	304 SS	316SS
Mechanical seal type ²	MR1 • MR2	MR5 • MR7

¹Optional component with a standard material configuration

²For mechanical seal material configuration details, see 'Mechanical Seals' section

The improved design and standard materials of the FLPS rival other pumps' upgrade options.

Standard FLPS features include:

- 304 stainless steel impeller to resist corrosion
- Carbon/silicon carbide seal with an EPDM elastomer increases durability and expands application range
- Impeller wear rings and casing wear rings protect vital pump components and reduce downtime
- Shorter shaft extends running life
- Motor alignment screws simplify motor and coupling installation
- Integrated measurement ports accept optional temperature and vibration sensors, to help predict maintenance needs



More Opportunities to Extend Seal Life

Minimize leakage, protect equipment from excessive wear, lower pump maintenance costs and increase long-term cost-effectiveness with our new proprietary seals. The FLPS pump comes standard with a durable carbon/silicon carbide seal with an EPDM elastomer. This pairing enhances durability and expands the application range, or choose from a wide range of seal types and materials to fit your industrial water and fluid needs.

More Support to Promote Confidence

FILIPUSI FLPS single stage, double suction centrifugal pumps come in so many models and materials that you can precisely configure your pump for your system. Simplify selection with our Intellitronic X selection tool. Easily configure hydraulics, pump materials, motors and seals based on your application. We'll assemble your pump and get it on its way.

Since the proper selection and configuration of your pump is critical to long-term efficiency and dependability, you also have easy access to our pump application engineers and vast network of knowledgeable distributors. They will ensure your pump is optimized for your application and designed to deliver the long-lasting, reliable service that you expect.

Technical Specifications:

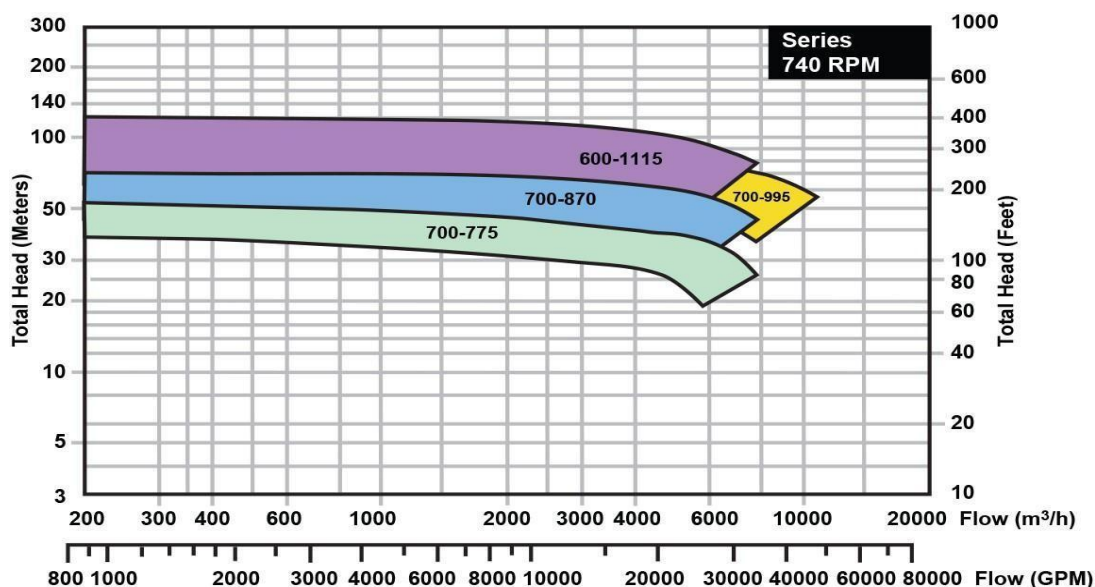
- Number of models: 142
- Maximum flow: 10,800 m³/hr [47,551 gpm]
- Maximum head: 221 m [725 ft.]
- Flow discharge: up to 800 mm [32"]
- Nominal pressure: 12 to 31 bar [175 to 450 psi]
- Flange rating: Standard PN16 and PN25 design
- Temperature range: -20°C to 121°C [-4°F to 250°F]
- Available in 50 Hz and 60 Hz
- Standard mechanical seals: rubber bellow or balanced metal pusher
- Optional seals: packing, cartridge or custom solutions
- Eight (8) standard alignment jacking screws for easier motor alignment (NEMA 215 motor frame size and larger)
- Three (3) vibration ports 1/4-28 UNF
- Two (2) temperature ports 1/4 MNPT

More Sizes Equals More Opportunities

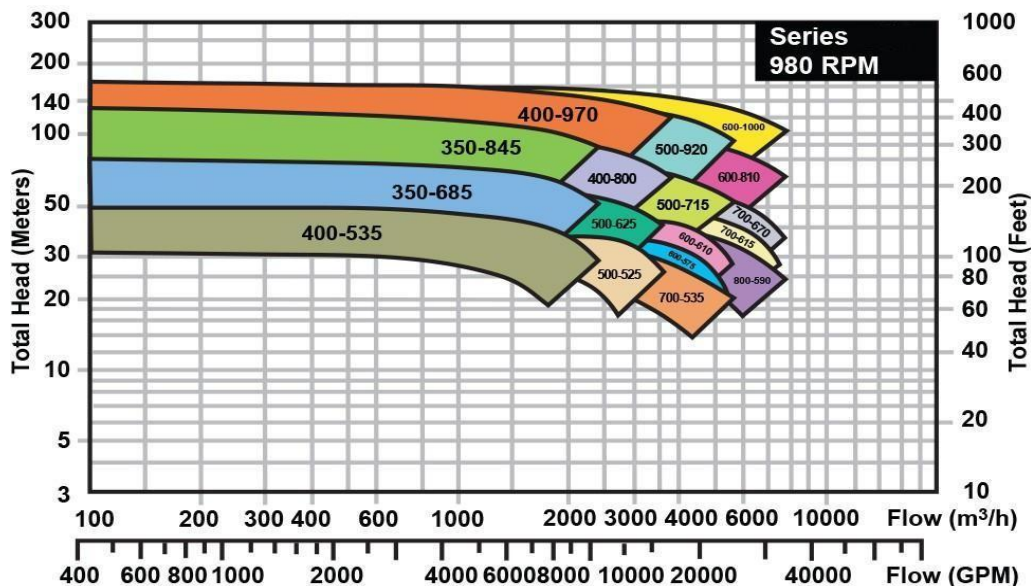
Performance. Efficiency. Broad hydraulic range.

The FLPS split case pump offers a broad hydraulic range, efficiency and a wide variety of sizes. More sizes equal more opportunities to optimize efficiency for your application. Whether your system requires small or large capacity, we have the right pump for you.

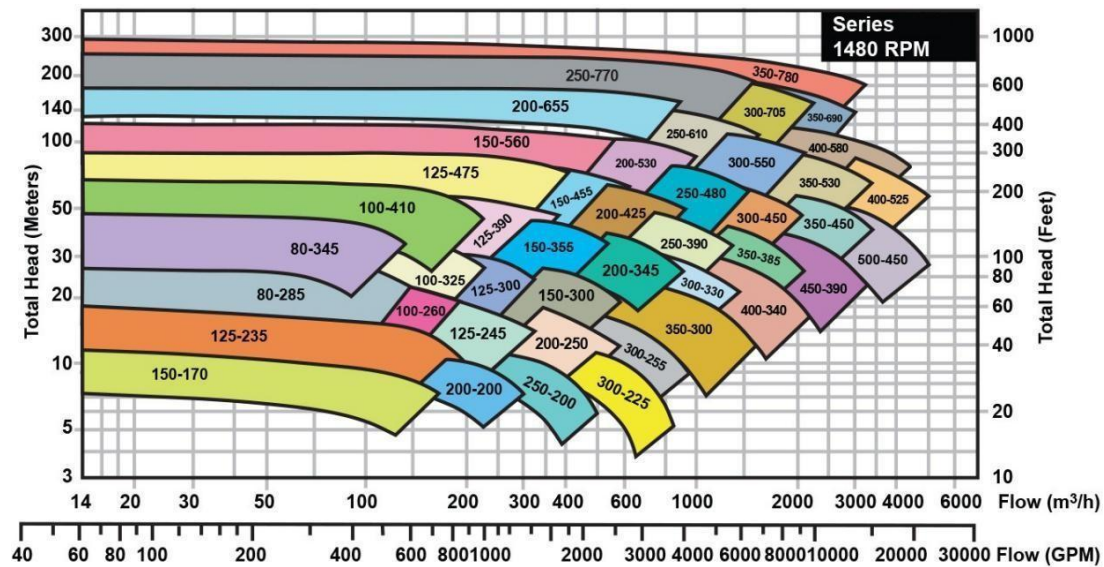
50 Cycle – 740 rpm



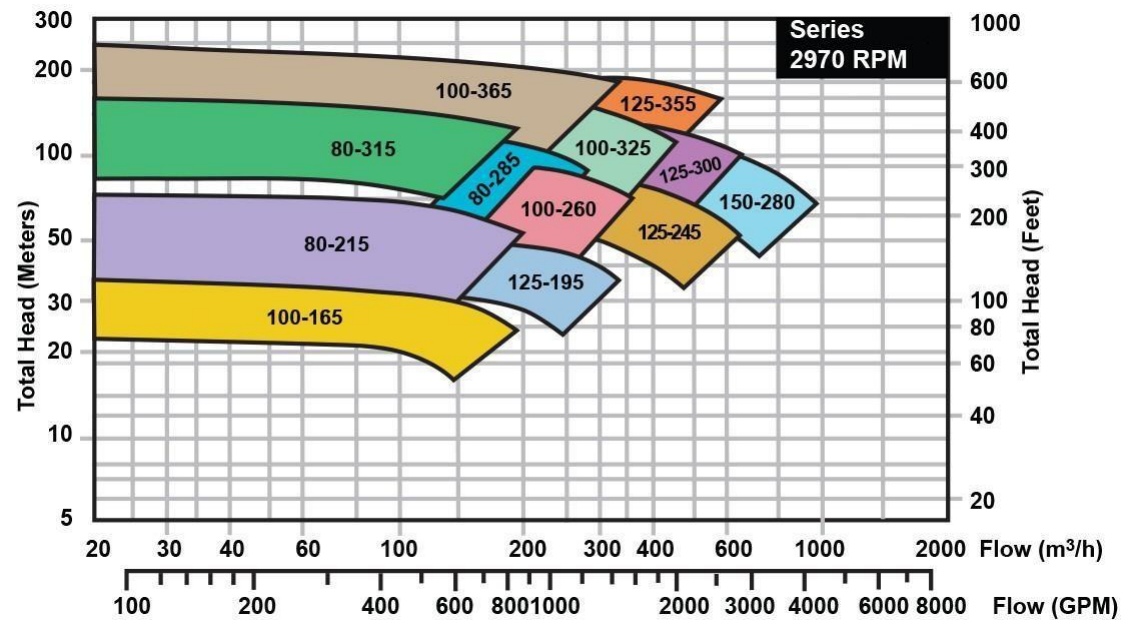
50 Cycle – 980 rpm



50 Cycle – 1480 rpm



50 Cycle – 2970 rpm



More Features to Improve Performance, Efficiency and Your Bottom Line*

1 Mechanical Seal Extends Life

Introducing FILIPUSI's proprietary mechanical seals, in a wide range of types and materials to handle critical industrial applications. Durable carbon/silicon carbide with EPDM elastomer seal is standard.

2 Stainless Steel Impeller Reduces Downtime

Standard 304SS impeller resists corrosion from process fluids to boost performance. For more aggressive applications, upgrade to 316, Duplex, or Super Duplex stainless steel.

3 Impeller and Casing Wear Rings Increase Efficiency

Standard wear rings protect against abrasion and debris, reduce downtime and simplify maintenance while avoiding costly impeller or casing replacement. Impeller wear rings are standard with any impeller combination.

4 Casing Material Options Add Flexibility

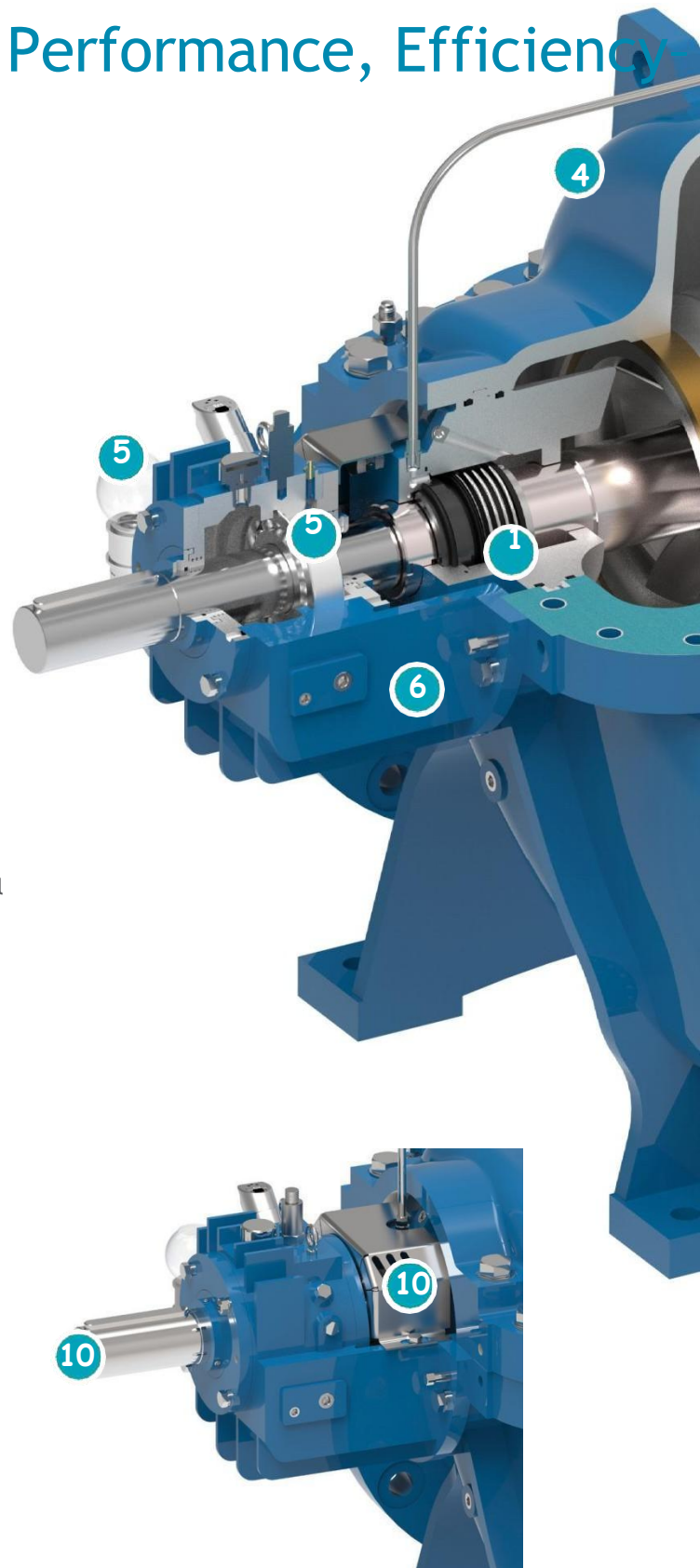
Standard casing options include cast iron or ductile iron. Customize with 304, 316, Duplex, or Super Duplex stainless steel to meet your operating environment demands.

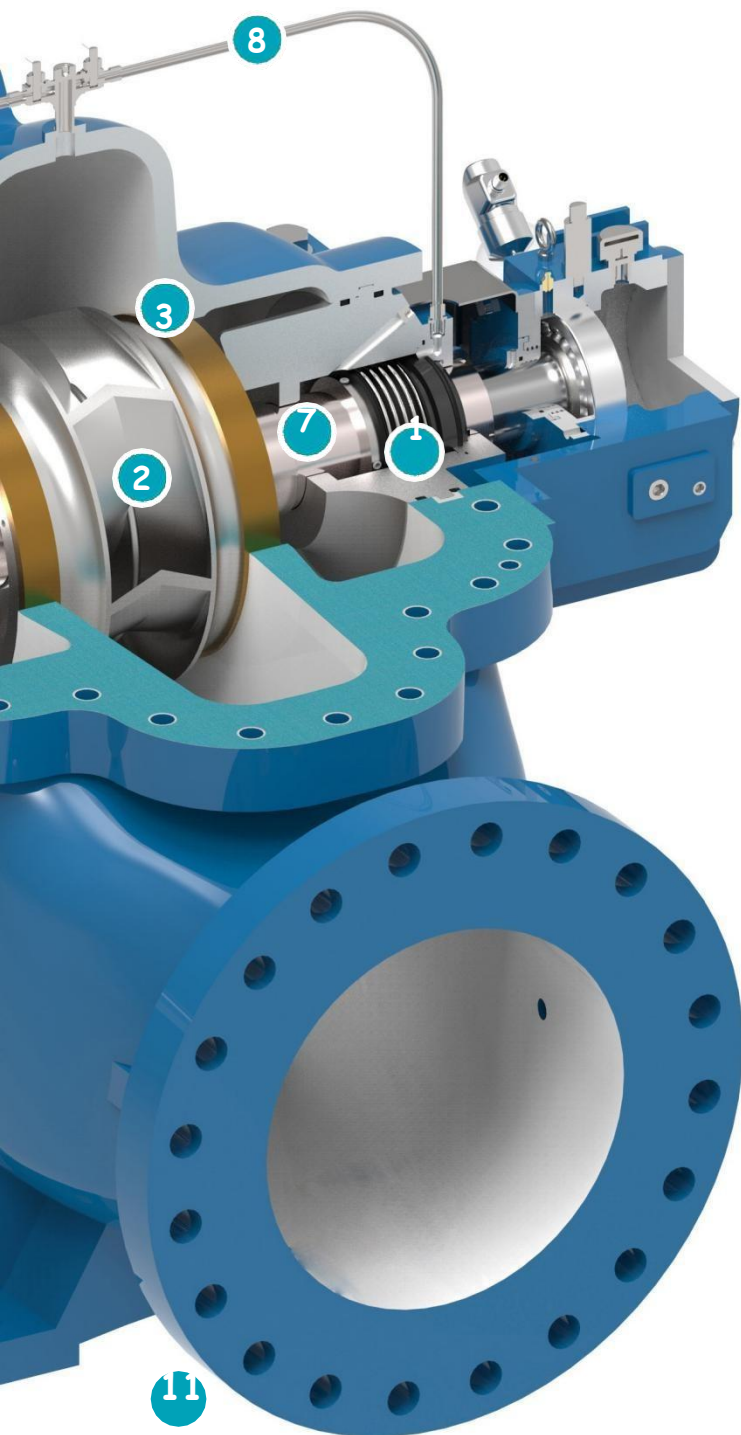
5 Labyrinth Seal Strengthens Protection

A bearing frame labyrinth seal comes standard, protecting against wear, heat, frictional power loss and debris. Prevent leakage and ensure a cleaner, safer work environment while minimizing maintenance and extending pump life.

6 Monitoring Ports Increase Visibility

Every FLPS pump contains dual axis vibration and temperature sensor ports, as standard. Optional sensor interfaces can be connected to plant control systems for enhanced monitoring and diagnostics. Catch issues early to prevent failures and provide peace of mind.





7 Shaft Sleeve Minimizes Repair Costs

Easily replaced sleeves minimize shaft wear from corrosive and abrasive liquids, reducing repair and/or replacement costs. Standard is 304 stainless steel; upgrade to 316, Duplex, or Super Duplex stainless steel for aggressive environments.

8 Flush Line Extends Seal Life

Robust, corrosion-resistant stainless steel external flush line makes it easy to clean and cool the mechanical seal, extending seal life. Standard is 304 stainless steel; upgrade to 316 for more demanding applications.

9 Motor Alignment Screws Speed Up Installation

Eight standard screws on frame size 215 or larger take the hassle out of motor and coupling installation.

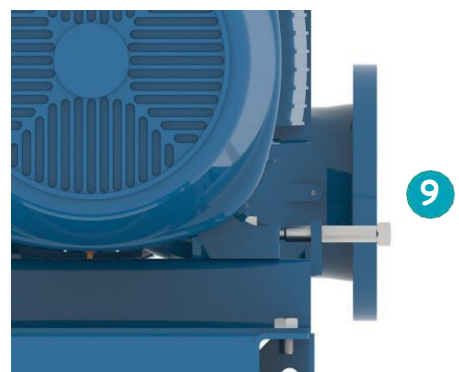
10 Shaft and Coupling Guards Support Safety

Ensure safety despite exposed shaft design at no extra cost. Guard components reduce noise while protecting operators from high-speed rotating elements.

11 NSF/ANSI 61 and 372 Certified Construction*

Standard construction FLPS pumps are certified to NSF/ANSI/CAN 61 and 372 standards for potable water applications. There is no need for additional coating(s).

* Standard construction (dry shaft) cast iron, ductile iron or CF8 (316 SS) enclosed FLPS pumps, fitted with either CF8 (304 SS) or CF8M (316 SS) impeller and impeller wear rings, and bronze or 2205 (duplex) SS or Nitronic 60 casing wear rings are certified to both NSF/ANSI/CAN 61 and 372 standards. Standard construction pumps are certified for use with either MR1 (C/SiC/EPDM) metal pusher and MR2 (C/SiC/EPDM) rubber bellows mechanical seals. Optional wet shaft construction FLPS pumps with either 420 SS shaft with the same casing, impeller assembly, and mechanical seal configurations listed above are also certified to NSF/ANSI/CAN 61 and 372 standards.



More Control with Enhanced Monitoring and Sensors

Opportunities to cut pump energy use include smart hydraulic system design, retrofitting for variable speed performance, and operating practices. To build and operate an efficient water system, you need both the right products and experts who know the application. Aquavar® IPC controllers have been designed by FILIPUSI's engineers to help you achieve your goals. With the help of the Aquavar IPC variable speed controller, you can optimize pump operations and reduce energy costs by as much as 70%.

AQUAVAR IPC variable speed controller

The Aquavar® IPC variable speed controller is optimized for FLPS pumps, adding capabilities including multipump configuration and remote monitoring. This controller manages pump energy consumption, leading to significant energy savings.



Features

- Easier start-up and programming with Start-Up Genie
- Wide range of standard and permanent magnet motors with power up to 600 hp
- Multi-pump configuration for up to four (4) pumps - no need for PLC
- Remote commissioning and monitoring with USB Connectivity and software
- Developed by pump experts and optimized for controlling pumps
- Two wire multi-pump connection for faster installation
- Hand on, off, and auto-on buttons available for easy pump operation at the keypad. No toggling between local and remote operation
- System redundancy with multi-master control in case of drive failure
- Wide range of voltage and enclosure options
- True 208 V coverage
- Dedicated single phase input
- In-panel or handheld keypad with backlit display
- Alarm Log for last 5 alarms and maintenance events
- EMC/RFI filters and Dual DC-link reactors to reduce drive noise emissions and interference
- I/O expansion cards, factory installed or field configured

More Visibility Providing Peace of Mind

Every FLPS pump contains dual axis vibration and temperature sensor ports to help manage the operating efficiency of your pump and establish preventative maintenance protocols. Multiple sensor monitoring ports for pressure, vibration and temperature are standard. Sensors are also available as optional accessories for added pump condition monitoring.



More Options to Suit Even More Applications



POWER GENERATION



OIL & GAS



GENERAL
MANUFACTURING



POOL & LEISURE



MINING



WATER UTILITIES

For more than a century, FILIPUSI's pump technologies and solutions have satisfied customers all over the world. The FLPS pump continues that tradition, taking industrial thinking to a new level with more options, more materials and a broader hydraulic range. Here are just a few of the markets and applications where we're helping customers solve their most complex water and fluid management challenges.

Applications

- Water intake
- Water transfer and circulation
- Pressure boosting
- Process cooling and heating
- Industrial building cooling and heating
- Industrial fluid transfer and transport
- Produced water transfer and boosting
- Boiler feed booster
- Water park applications

Pumped Fluids

- Groundwater
- Potable water
- Process water
- Gray/used water
- Seawater
- Brackish water
- Industrial fluids
- Heat transfer fluids
- Produced water
- Solvents/oil

Other Standard Features

- Equipped with shaft guards for increased safety and protection against rotating components.
- Short shaft design ensures less deflection and longer bearing life.
- Vibration, temperature and pressure ports standard for easy monitoring.

Pump Accessories



Bearing Lubrication

Oil Lubrication Kit

- 4 oz. Trico oiler
- NPT sight glass
- NPT breather vent



Temperature Monitoring

Prosense ETS Series
Digital Temperature Sensor

- -58°F to 302°F [-50°C to 150°C]
- Outputs 1 and 2: Switch PNP, N.O./N.C. selectable or 4 to 20 mA, 4-digit display



Vibration Monitoring

PCB Piezotronics Industrial Velocity Transmitter

- Output: 4 to 20 mA
- 0 to 1 in/sec pk
- 3 to 1k Hz
- 2-pin connection

Pressure Monitoring

American Sensor Technologies Pressure Sensor

- AST range 0 to 100 psi [0 to 6.9 bar]
- Output: 4 to 20 mA

American Sensor Technologies Pressure Sensor

- AST range 0 to 300 psi [0 to 20.7 bar]
- Output: 4 to 20 mA

Condition Monitoring

optimize™ Sensor

- Temperature: -4 to 275 deg F (-20 to 135 deg C)
- Vibration: 3-axis, 5 to 1.1k Hz
- Magnetic Mounting (standard)

www.FILIPUSI.com/optimize



Pump Selection

Using FILIPUSI's selection software for pump selection will save you time due to its easy to use platform and selection flexibility. With ability to be designed and configured in a multitude of ways, the FILIPUSI FLPS single stage, double suction centrifugal pump is available in a variety of sizes, models and materials which allow you to perfectly configure it for your system requirements.

FILIPUSI Product Cybersecurity:

FILIPUSI values your system security and the availability of your critical services. For more information on FILIPUSI cybersecurity practices or to contact the cybersecurity [More details](#)

Drinking Water
Low Lead Content
NSF/ANSI 61 & 372

NSF/ANSI 61 (*Drinking Water System Components - Health Effects*) is a certification standard for products that come into contact with drinking water. NSF/ANSI 372 (*Drinking Water System Components — Lead Content*) verifies the lead content of drinking water products meets levels determined by the Safe Drinking Water Act. These requirements are based on EPA and Health Canada Requirement.