

xylem



e-SVI Series

Immersible
multistage pumps



Taking reliability and performance to new depths

The e-SVI is an efficient, reliable, high-performance pump, comprised of an energy saving, vertical multistage pump coupled to a IEC high efficient motor. Plus, an immersible hydraulic end provides an ideal solution for top mount applications.

Industry-leading range, with flows up to 120 m³/h and sizes from 1 to 92, meets the demands of a wide variety of applications in the industrial, OEM and commercial building services markets.

The e-SVI can be built with a variable number of stages to cover a wide range of duty points. It's configured to allow an additional number of blank stages, so that the height of the immersed part can accommodate different suction depths. It can serve as an interchangeable drop-in replacement for pumps with 3/4", 1"1/4 or 2" Rp threaded fittings, and for larger sizes, a DN80 flanged discharge connection is standard. The e-SVI is a powerful complement to the existing e-SV multistage pump family. In addition, the e-SVI can be paired with hydrovar® X to provide variable speed performance.

A depth of knowledge, expertise and innovation

Why choose Xylem? When you choose Xylem as your pump solution partner, we offer you the support you need to build your confidence in us.

Pump expertise and expert advice

Each pump is designed based on Xylem's 170-plus years of pump experience, to ensure that you always have the best solution for the job at hand.

Reliability and performance

Our pump experts will ensure that your pump is optimized for your application and designed to deliver the long-lasting, reliable service that you expect.

Leading edge technology

The e-SVI pump features laser-welded impellers that reduce friction and optimize pump efficiency. Sizes 1-22 feature an inducer as part of our standard offering. The inducer helps protect against dry run and allows for reliable low-level pumping. The e-SVI is available with IE5 motors and variable speed drives, providing efficiency well above a standard IE3.

Easy pump selection

The online selection tool simplifies ordering, allowing you to easily configure hydraulics, pump materials, motors and seals based on your application.



Industrial



OEM



Typical applications

Designed with flexibility and reliability in mind, e-SVI immersible multistage pumps are the ideal choice for top mount tank applications. The pump design is an effective solution to many needs in the industrial, OEM and commercial building services markets, and covers a wide variety of applications.

- Cooling and tool lubrication circuits
- Cooling systems
- Machine tooling
- Process temperature control
- Industrial washing systems (degreasing of mechanical components)
- Pressurization of clean liquids
- Transfer of condensation

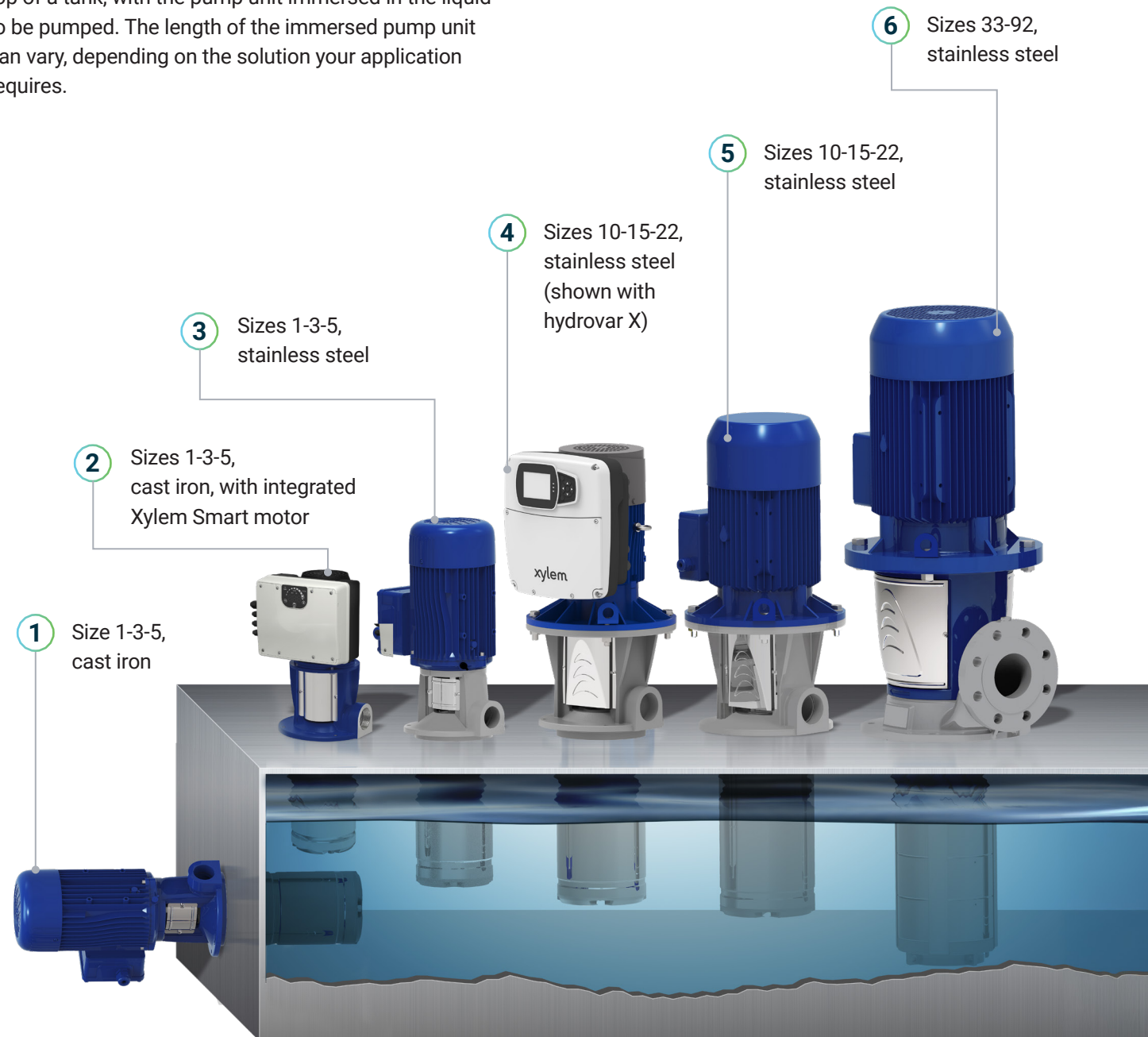
- Filtering systems (reverse osmosis)
- Heat exchange
- Washing and cleaning systems (washing wells, and washing cars and trucks)
- Electronics circuit washing
- Commercial washing machines

Pumped liquids

- Cooling and lubricating fluids
- Emulsions
- Cutting, hydraulic and motor oil
- Condensation
- Water with detergents
- Desalinated water
- Water and glycol

An immersible top tank solution

The e-SVI is specially designed to be mounted on the top of a tank, with the pump unit immersed in the liquid to be pumped. The length of the immersed pump unit can vary, depending on the solution your application requires.



An abundance of features and benefits



Performance

- Industry-leading performance and range, with flows up to 120 m³/h, meet the demands of a wide variety of applications.
- The e-SVI range 1-22 features an inducer as part of our standard offering. The inducer helps protect against dry run and allows for reliable low-level pumping.
- An assortment of materials and configurations let you create the right pump for the job at hand.
- An all-316SS version is available, to handle aggressive liquids and more demanding applications.
- The e-SVI can be built with a variable number of impellers, to cover a wide range of duty points.
- The e-SVI can be configured to allow an additional number of blank stages, so that the height of the immersed part can accommodate different suction depths.



Reliability

- Our pump experts ensure that your pump is optimized for your application and designed to deliver the long-lasting, reliable service that you expect.
- The reduced axial thrust design makes it possible to use motors with standard bearings. This allows easy selection of standard motors reducing cost and increasing availability.



Efficiency

- Precision laser welded impellers reduce hydraulic losses and optimize pump efficiency.
- IEC high efficient motors, combined with the optimized hydraulic design of the e-SVI pump, reduce energy consumption and operating costs.
- Xylem hydrovar® X is available to further improve the performance of the system.



Easy repair

- Easy-to-replace, pre-assembled cartridge seals (sizes 1-22) are available, to help ensure correct assembly.
- The mechanical seal (non-cartridge) can be replaced without removing the motor in sizes 33-92, to simplify repair and minimize downtime.
- The e-SVI is an interchangeable drop-in replacement for pumps with 3/4", 1" 1/4 or 2" Rp threaded fittings, or with DN80 compatible flange discharge connections.



Mechanical seal options

- An assortment of mechanical seals and materials are available, which are designed to handle a wide range of temperatures, high pressures and aggressive liquids with ease.

e-SVI series immersible multistage pumps

Performance

- Flow: up to 120 m³/h
- Head: up to 250 m
- Temperature of the pumped liquid (with a standard mechanical seal):
-10 °C to +90 °C
- Discharge connections and maximum operating pressure:
 - Rp 1/4 for sizes 1-3-5, up to PN25
 - Rp 2 for sizes 10-15-22, up to PN25
 - Flanges DN 80 for sizes 33-46, up to PN25, and for sizes 66-92, up to PN16

Published hydraulic performance is compliant with ISO 9906/HI 14.6 Grade 3B.

Direction of rotation marked with an arrow on the adapter and coupling: clockwise (looking at the pump from the top down).

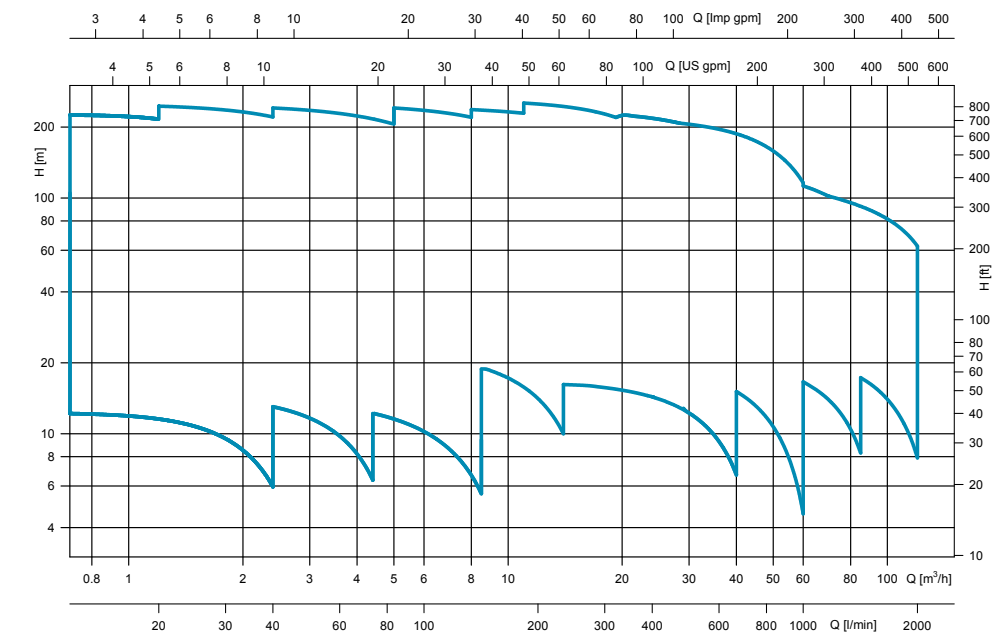
Motor

Power:

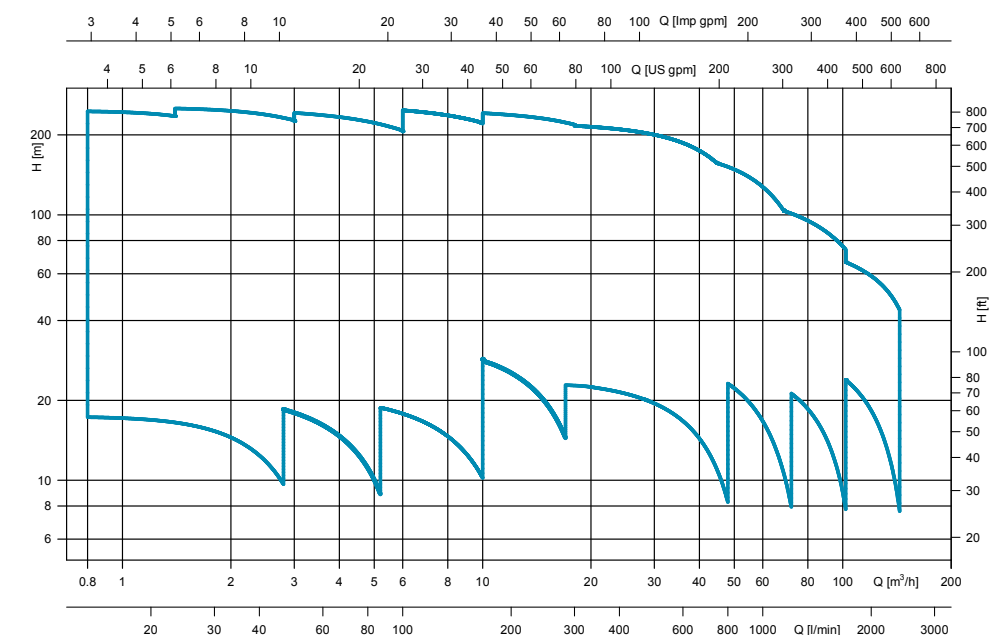
- Single-phase up to 2,2 kW
- Three-phase up to 30 kW
- IEC frame motor
- Ambient temperature: from 0°C to +50°C
- Standard voltage: see option in the nomenclature
- Protection class: IP55
- Class 155 (F) insulation
- Performances according to EN 60034-1



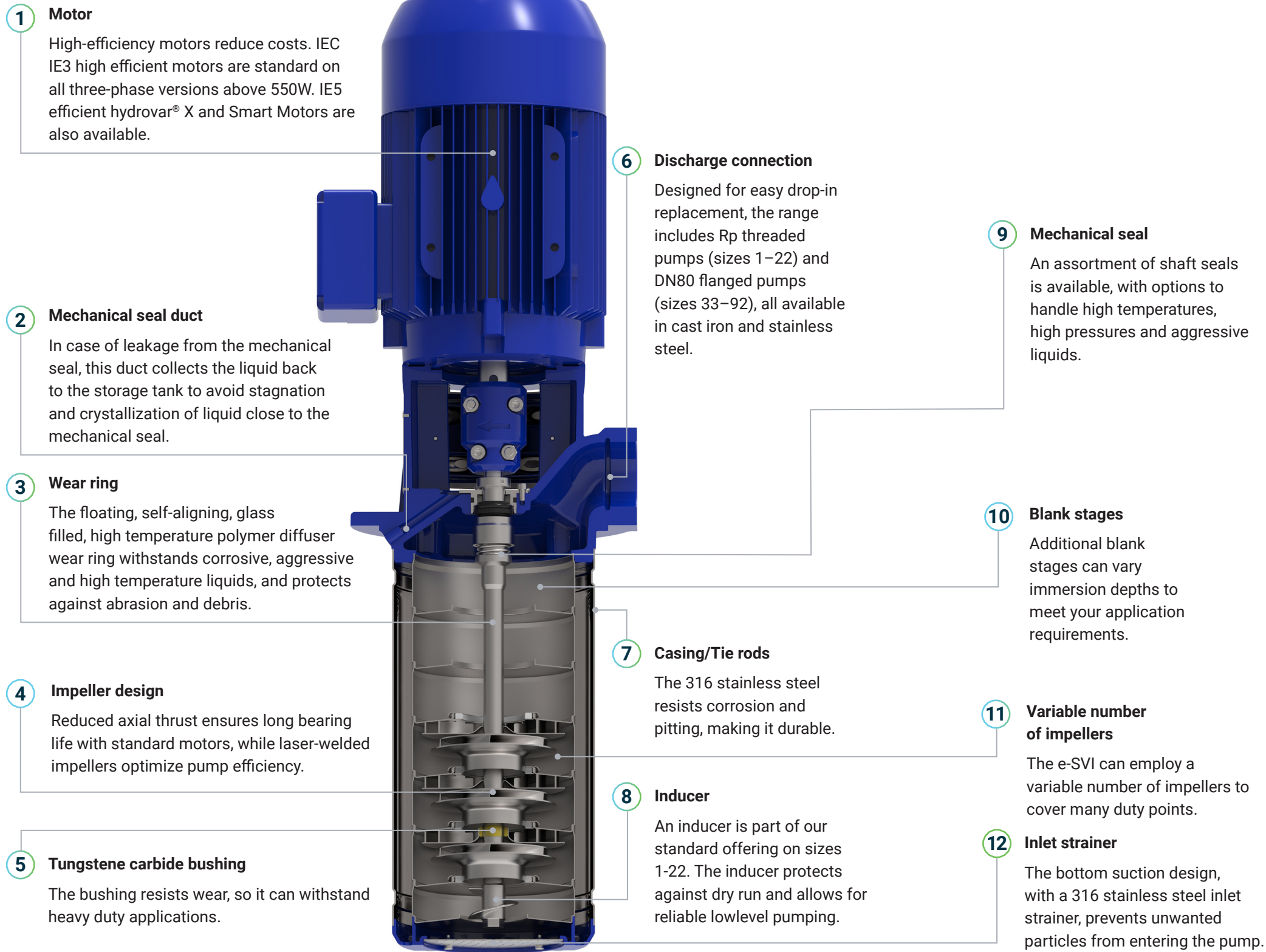
e-SVI pump coverage curves at 50 Hz



e-SVI pump coverage curves at 60 Hz



An in-depth look at the e-SVI



A wide selection of mechanical seal options

The e-SVI pump is available in a wide assortment of mechanical seals designed to handle high temperatures, high pressures and aggressive liquids with ease. Durable materials prevent downtime and prolong the life of the seal.

The e-SVI pump comes standard with a durable silicon carbide/carbon seal with an FKM elastomer.

This pairing enhances durability and is compatible with a wide range of applications. For more aggressive applications, select the silicon carbide/silicon carbide with EPDM or FKM elastomer. Choose the seal option that best meets the unique demands of your application.

Easy access and repair

When it's time to repair your pump, the design of the SVI sizes 33-92 allows the mechanical seal to be removed without having to remove the motor, thus reducing repair time.

Access the standard mechanical seal without removing the motor and replace it in a few simple steps (sizes 33-92):

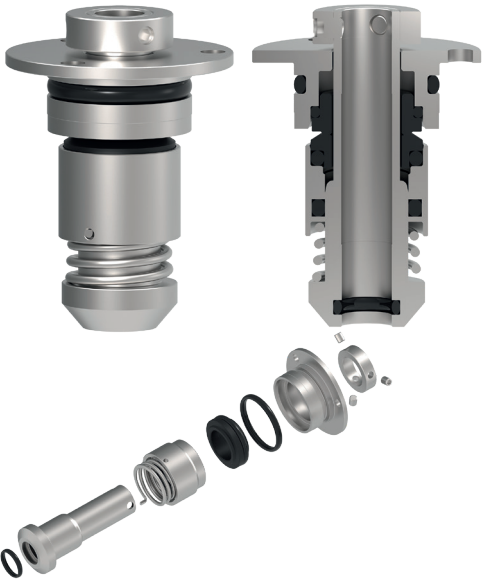


Mechanical seal of e-SVI sizes 1-22



Mechanical seal of SVI sizes 33-92

Step-by-step mechanical seal replacement



Pre-assembled cartridge seal (sizes 1-22)

Pre-assembled cartridge seals

An easy-to-replace pre-assembled cartridge seal configuration is available, which ensures that the seal components will never be assembled incorrectly.

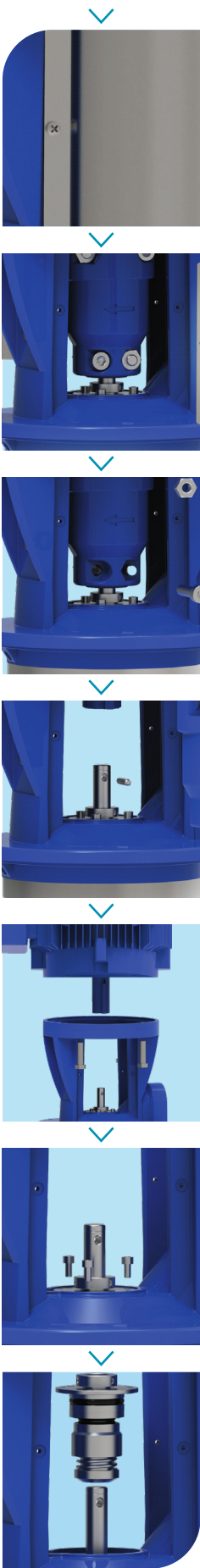
Our pre-assembled seal is a reliable, efficient, timesaving alternative to standard seals. It is designed for reliability and built for durability, using materials that last. The pre-assembled cartridge seal comes in a range of durable materials to meet the demands of your unique applications.

The dimensions of the internal stationary and rotary parts of the seal are according to European Standard EN 12756.

Easy repair

Once the motor is removed, the pre-assembled cartridge seal can be quickly and easily replaced in a few simple steps.

Step-by-step mechanical seal replacement



Seal material options

SVI 33-92

Rotating Part	Stationary Part	Elastomers	Springs	Other Components	Temperature (°C)
Standard Mechanical Seal					
Silicon carbide	Carbon	FKM	AISI 316	AISI 316	-10° to 90°
Other Types of Mechanical Seals					
Silicon carbide	Silicon carbide	EPDM	AISI 316	AISI 316	-30° to 90°
Silicon carbide	Silicon carbide	FKM	AISI 316	AISI 316	-10° to 90°

1-22 e-SVI

Rotating Part	Stationary Part	Elastomers	Springs	Other Components	Temperature (°C)
Standard Mechanical Seal					
Silicon carbide	Carbon	FKM	AISI 316	AISI 316	-10° to 90°
Other Types of Mechanical Seals					
Silicon carbide	Silicon carbide	FKM	AISI 316	AISI 316	-10° to 90°
Silicon carbide	Silicon carbide	EPDM	AISI 316	AISI 316	-30° to 90°

e-SVIE: immersible multistage pumps with integrated Xylem Smart Motor

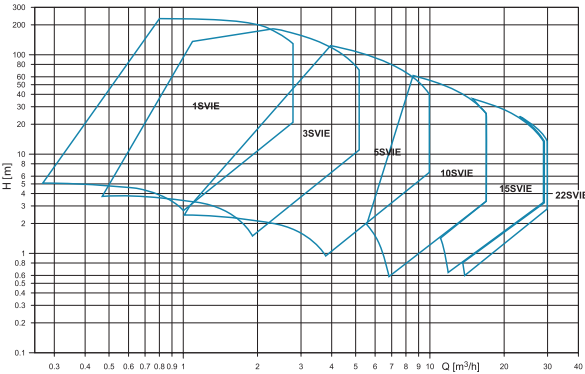
Smart high-efficiency hydraulics yield the lowest possible operating costs for a variety of applications, including industrial, OEM, and commercial building services. The e-SVIE offers ranges with multiple construction designs. Special versions are also available.

Applications

- Features the Xylem Smart Motor, an IE5 permanent magnet motor, providing efficiency well above a standard IE3
 - Includes a wide range of monitoring, control and safety features right out of the box with no need to configure
 - Can operate single or multipump systems of up to three pumps, with no need for an external control panel or PLC
 - Exceeds hydraulic performance of fixed speed versions in a more compact design
- Designed for fast, easy maintenance with a mechanical seal
- Reduced impeller axial thrust for longer standard motor bearing life



Performance curves



e-SVIE specifications

- Delivery: Up to 19 m³/h
- Head: Up to 215 m
- Temperature of the pumped liquid: -10 °C to +90 °C (extendible up to -30 °C with special mechanical seals)
- Discharge connections and maximum operating pressure:
 - Rp 1 ¼ for sizes 1-5, Rp 2 for sizes 10-22: up to PN25
- The hydraulic performances meet the tolerances specified in ISO 9906:2012 Grade 3B

e-SVIX: immersible multistage pumps with hydrovar® X

Industrial applications that demand the reliability of e-SVI multistage pumps are taken to new levels with hydrovar® X - with intelligent pump management and connectivity that offers maximum uptime and precision performance.

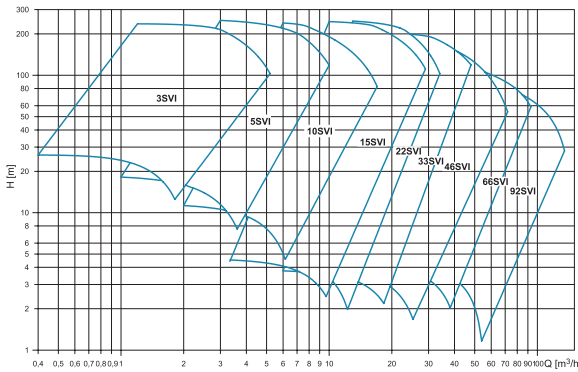
hydrovar® X brings the best energy efficiency performances with its frequency converter coupled with the ultimate synchronous motor, manufactured by Xylem integrating decades of expertise and know-how in pumping solutions. It's the right combination of motors, variable speed drive and pump ensuring great performance, maximum savings and a rapid return on investment.

- IE5 Permanent magnet assisted reluctance motor equipped with advance control for the highest efficiency level and to extend the lifetime of the motor
- Multipump capability as standard with no single failure point
- Remote control and management via app

	HVX	HVX+
Display	LED	Graphic color
Controls		
Pressure	•	•
Flow		•
Temperature		•
Level		•
Multi-Pump	Up to 4 pumps	Up to 8 pumps
Extended I/Os		•



Performance curves



e-SVIX specifications

- Flow rate: up to 135 m³/h
- Head: up to 260 m
- Temperature of pumped liquid: up to +90 °C
- Maximum operating pressure 25 bar (PN 25)
- Environment temperature: -20 °C to +50 °C with no performance derating
- The hydraulic performances meet the tolerances specified in ISO 9906:2012

e-SVI immersible multistage pumps.
Taking reliability and performance
to new depths, with flexible
configurations and easy maintenance
that help customers minimize
downtime and reduce total operating
costs.



Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

Xylem is a leading global water solutions company dedicated to advancing sustainable impact and empowering the people who make water work every day. Xylem connects diverse capabilities and innovative technologies to provide tailored solutions across the entire water cycle. From moving, treating and measuring water to optimizing and maintaining water systems, Xylem collaborates with customers to solve their most critical challenges. Together, through partnerships with utilities, industrial manufacturers, building operators, and communities, we are building a more water-secure world.

For more information on how Xylem can help you, go to www.xylem.com