



SELF-PRIMING  
CENTRIFUGAL  
PUMPS



## Victor Pumps: "Well done!"

*We meet all the requirements,  
even in the most  
difficult applications.*





surface mounted for easy access



entrained air/abrasives/corrosives



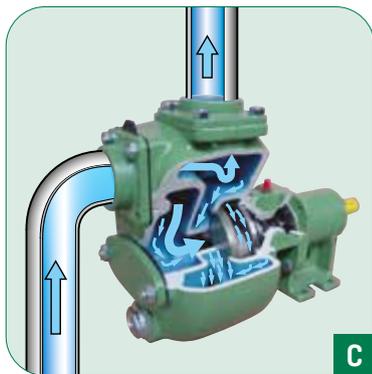
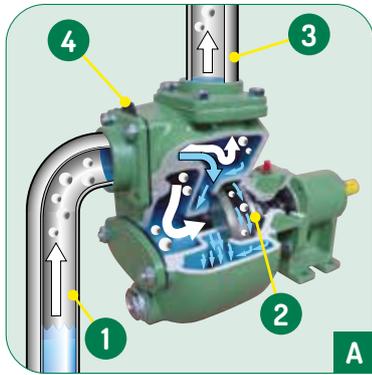
self-priming up to 8 m



also for viscous liquids



## Operating principle and limits of use



The S series pumps are centrifugal and self-priming. The impeller with open blades allows a wide passage of solids. With this kind of pump you can handle wastewater also with corrosive and viscous liquids containing solids in suspension, abrasive powders, even if there are air bubbles.

One of the advantages of this type of pump is indeed that it doesn't need to be immersed in the liquid. The maximum suction height is given by the physical conditions of the pumped liquid and can reach up to 8 m.

Since the pump is normally placed dry above or aside the liquid, the suction line contains air.

The self-priming pump will evacuate all the air. The vacuum, that is produced when the impeller rotates (2), draws the air (1) into the pump where it is mixed with the liquid already contained in the pump casing. The air/liquid mixture is driven to the discharge side where the air is separated and expelled through the discharge port (3). The liquid falls back due to the higher gravity and is reused in the suction side through a small passage. When all the air has been evacuated from the suction line, the liquid is pumped, despite the air-charged. The high suction port keeps enough liquid inside the casing to allow re-priming any time. The non-return valve in the suction port (4) avoids a backflow of the liquid and reduces priming times.



The pumps are available with ATEX certifications to fulfill the EU regulation "Directive 2014/34/EU" that regulates the security of use for the equipment in potentially explosive atmospheres. We can supply ATEX certifications for the areas of Group II, categories 2GD (Zone 1) and 3GD (Zone 2) for the temperature classes T1/T2/T3 and T4.

By filling out a simple questionnaire, you can check the availability of the certificate for the specific request.

Further information is available on request.

## Pumpable liquids

Acids	Lime milk	Water with sand or mud
Bentonite	Liquid fertilizer	Transformer oil
Biomass	Liquid manure	Vegetable oils
Cutting oil	Low viscosity oils	Washing water
Diesel	Mineral oils	Water with boron
Emulsions	Must	Water with solid residues
Flood drainage	Petrol	Whey from alcohol distillation
Fresh or brackish water	Rain water	
Industrial wastewater	Sea water	
Leachate	Sewage	
Light petroleum products	Soda and alkaline solutions	and many others...



## Close coupled

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### S 80 G31T+F

Cast iron pump, with DN80 flanged ports and close coupled to the motor. Compact, competitively priced and easy to use. Typically for non-heavy applications and intermittent use.



### S 41 K57BBDe+F+2A

Stainless steel pump, with DN40 flanged ports, with elastic coupling mounted in the bracket with the IEC standard B5 motor.



## Bi-Block on base plate

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### S 40 G312BBDe+F+B+2A

Cast iron pump with DN40 flanged ports, Bi-Block version with electric motor, on base plate. Easy to install, heavy duty and safe. For fixed stations and continuous use.



With hydraulic motor

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### S 51 K301S0

Stainless steel pump with 2" threaded ports, coupled to hydraulic motor. Normally used on trucks and trailers.

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## S126 K312B+3A/XDe302

Stainless steel pump, with 4" counter flanges for pipe welding, flexible shaft coupling with guard and IEC standard B3 motor on baseplate. Traditional build, heavy duty for many applications.



## Carrying frame

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### S 40 G31M+SG

Cast iron pump with 1 1/2" threaded ports, close coupled with 230 V single-phase motor; on/off switch, motor protection, and cable with Schuko plug. Mounted on a carrying frame: compact and transportable.

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## 4-wheeled trolley for flat ground



**S 66 K30BDe+TV+SX+3A**

Stainless steel pump with 2" threaded ports, Bi-Block build with electric cable, on/off switch, with 4-wheeled trolley suitable for flat ground.



## 2-wheeled trolley

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### S 60 G31RZ+TEB

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2" cast iron pump, close coupled to diesel engine, on 2-wheeled all terrain trolley with recoil and electric start with integrated battery on the frame.

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## 2-wheeled trailer with tank

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### S150 G12ZH2+TSB

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6" cast iron pump, close coupled to diesel engine, on trailer with tractor profile wheels, large capacity tank for heavy and continuous use. The lifting and towing hooks allow various types of handling.

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Base mounted with fuel tank on skid

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**S150 G12ZH+SKID**

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6" cast iron pump close coupled to diesel engine mounted on skid, designed to be sled or lifted by the hook.

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## Special versions



THE  
**LIGHTEST**  
PUMP IN ITS CLASS  
55 KG

### S 81 A30Q+G

3" aluminium pump, close coupled to gasoline engine; on a practical, easily transportable carrying frame. Designed to be used in emergency situation such as flooding.



### S108 G31BBZH2+TVSB

4" cast iron pump, Bi-Block coupled to diesel engine; on 4-wheeled trailer for flat ground, can be moved manually, with a forklift or crane.



### S201 G12BBZH4+BSB

8" cast iron pump, Bi-Block coupled to engine, fixed with anti-vibration mountings on base with large tank. Supplied with document box and battery cover. Solid and particularly recommended for heavy-duty applications.

## Materials and construction variants

Versatility is one of the main characteristics of Victor Pumps. The same model of machine has been developed for different uses and applications in various sectors.



Depending upon the application and the pumped product, the S pumps are available in cast iron, ductile cast iron, stainless steel, bronze or aluminium. Furthermore, hybrid versions are available with different material combinations to extend pump life. It is also possible to strengthen the pump with special materials to reduce component wear. For example, to suit highly abrasive particles. Many drives are also available including different electric motors, engines and even hydraulic motors. All of these options allow our pumps to suit many different applications for process plants, on board ships, for environmental protection, on construction sites, for civil emergencies and many other situations! Using extensive experience gained over many years, Victor Pumps is able to offer the very best solution for all of your fluid handling requirements!



### S 81 B30T

3" close coupled pump to three-phase electric motor, made of bronze, highly recommended for sea water pumping.

## Materials and construction variants

The possibility for customization of the pump units according to the specific applications and special requests is another plus that distinguishes Victor Pumps and led our customers, from all over the world, to relies on us over the years.



Mechanical seals and gasket sets can also be selected as needed. The most common seal is an elastomeric bellows, available in various materials including, for example, silicon carbide/ceramic, tungsten carbide/tungsten carbide or graphite. For the most complex applications, we also offer metal bellows seals or a magnetic drive. The rubber gaskets are selectable in NBR, FKM, EPDM, PTFE or Aflas®. Our technical department is always updated on new materials and their specific characteristics to offer you cutting-edge solutions.



### S 46 K16TM

Stainless steel pump with 1 ½" threaded ports, magnetic drive shaft to eliminate any type of leakage of the pumped product. Recommended with dangerous liquids to protect the users and the environment.

## Pump characteristics



**Standard inlet and outlet ports** are BSP (GAS) threaded (up to 4"), on request also NPT; the ports are screwed on the casing to easily disconnect the pipes.



**Ports with counter flanges to weld** from 6" up. They are connected to other parts of the system with a simple welding.



**DIN or ANSI flanged ports**  
ON REQUEST: with through holes to facilitate the assembly and disassembly. Additional 1/4" threaded hole for vacuum gauge and pressure gauge.



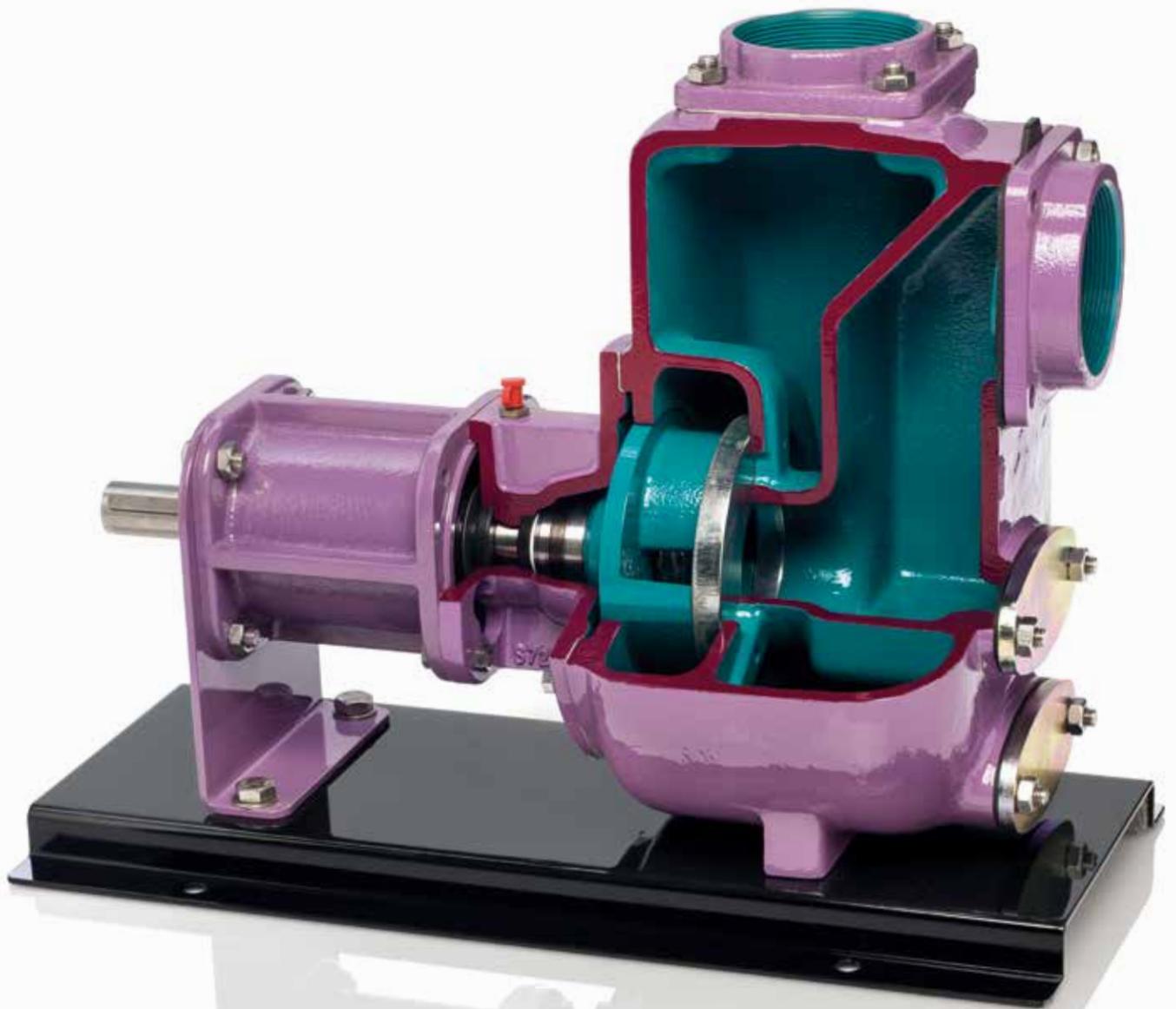
**Wear plates** of considerable thickness that are life-extension of the pump also in presence of abrasives. On request in anti-wear version.

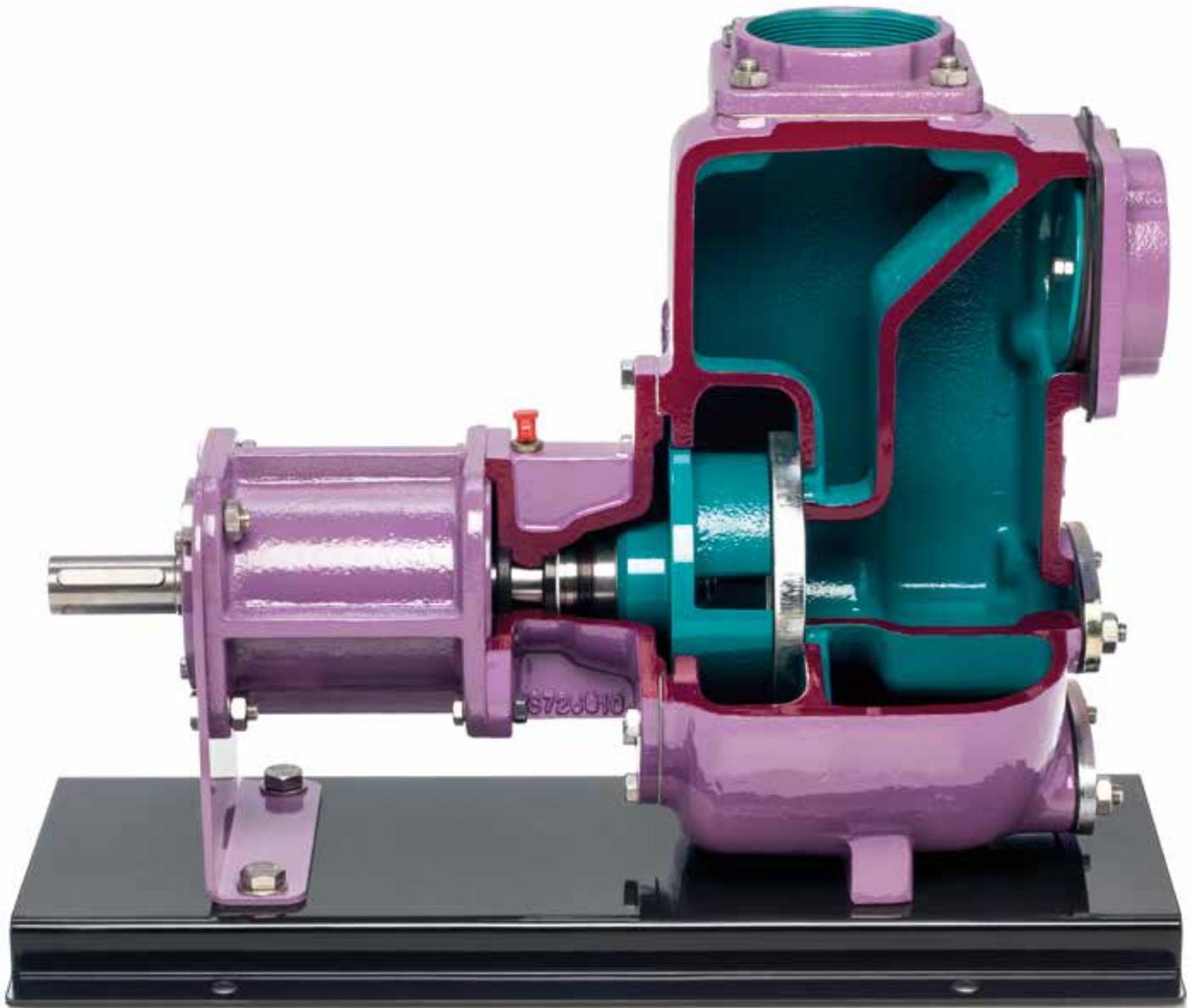


**Impeller with open blades** allows the passage of solids and abrasive products, thanks to its thick blades.



**Impeller and wear plate with cutter device**  
ON REQUEST: to cut soft solids and filaments. Good to wash out the labels from bottles, or black water on ship or rinsing of vegetables.





## Pump characteristics



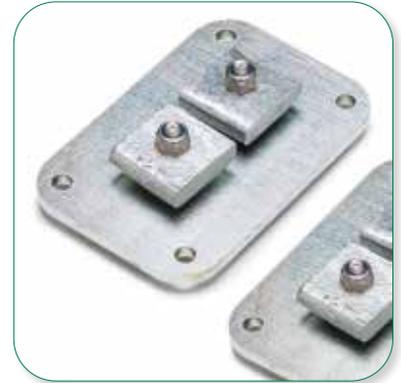
### Priming cover

to fill the pump casing at the first start; enables the self-priming.



### Inspection cover

to check the impeller and, if required, to clean the pump.



### Zinc anodes

ON REQUEST:

mounted on the covers of the pump to protect the cast iron parts from sea water.



### Non-return valve

prevents the reflux of liquid from the discharge line. Available in NBR, FKM, PTFE and EPDM.



### Clean out cover

it is used to empty the casing, especially in the colder months, and prevent the water from freezing inside.



### Discharge valve

ON REQUEST:

installed on the clean out cover, it is used to quickly empty the casing without the use of tools.

## Types of seals and accessories



### Mechanical seal

with stainless steel shaft sleeve and lubrication behind the seal to increase the dry running capabilities.



### + PS Automatic seal lubricator

ON REQUEST:

automatic lubricator of the mechanical seal to prolong the dry-running capabilities or when working out of curve.



### External flushing seal

ON REQUEST: to avoid the deposit of product on the surfaces of the seal and rear of the impeller.



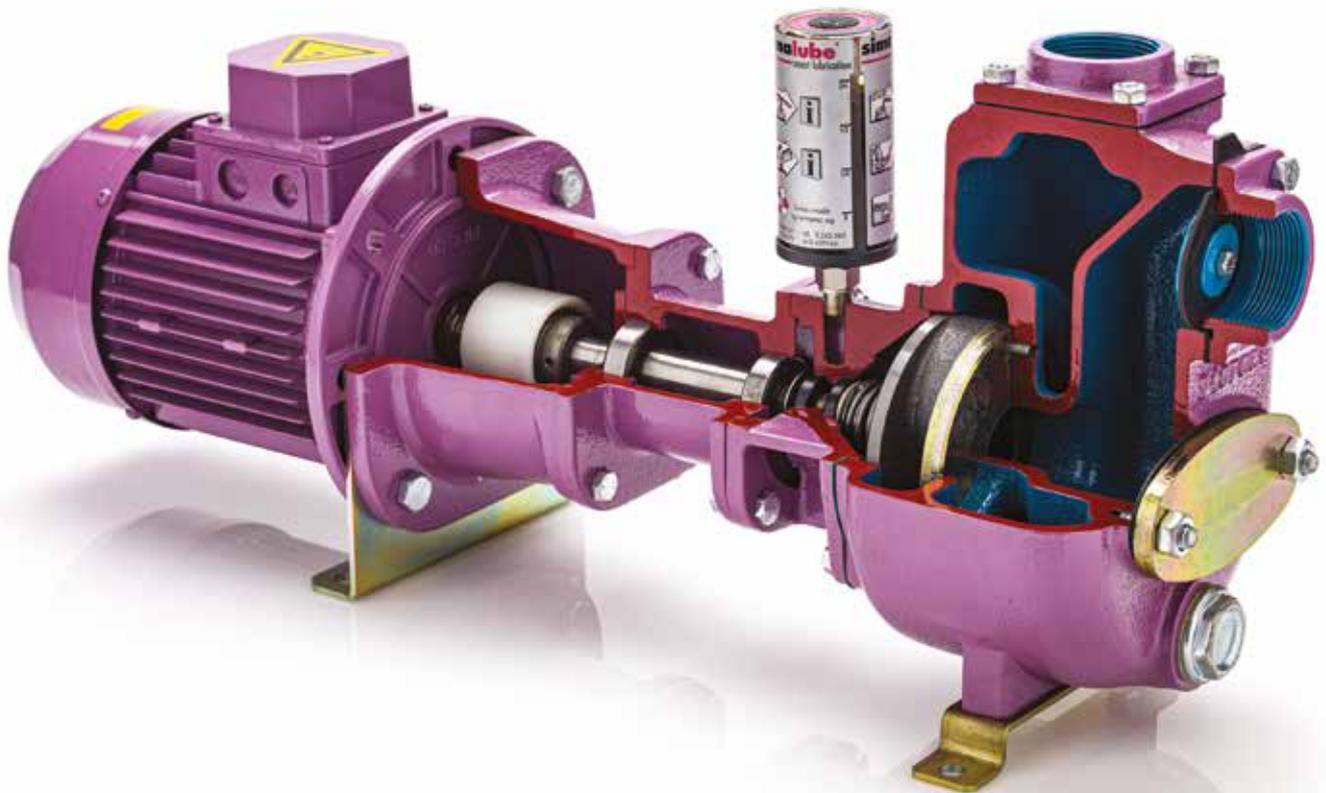
### Metal bellow mechanical seal

ON REQUEST: for dirty solvents and other chemical products compatible with PTFE.



### Magnetic coupling

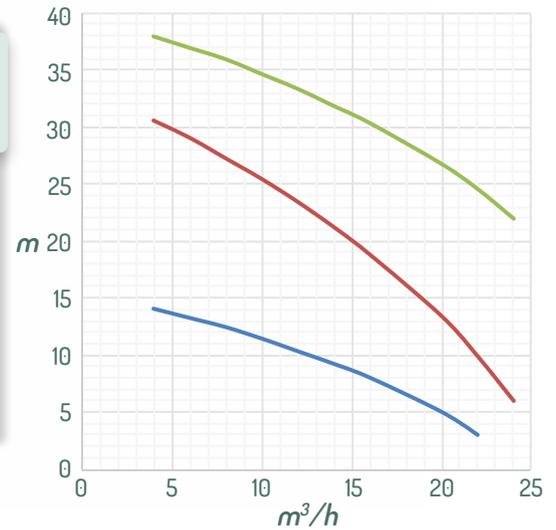
ON REQUEST: makes the pump tight and has only static gaskets. Recommended for dangerous liquids to protect the environment.



# 50 Hz Performance

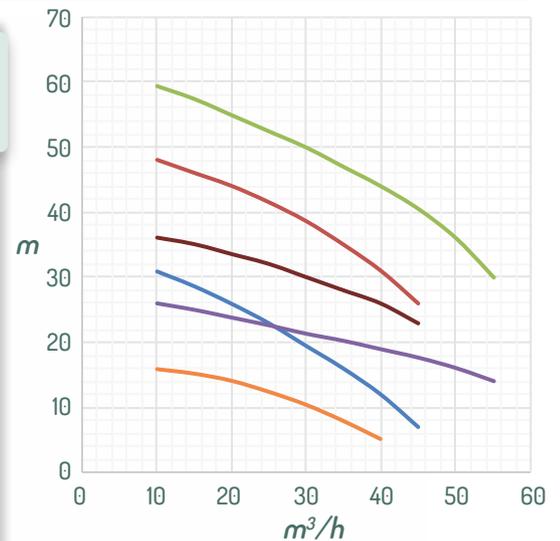
## 1½" - DN 40

Model	Heavy duty	Self-priming	Noise dB(A)	Passage of solids mm	400 V, 50 Hz motor	
					kW	rpm
S 45+70 S 46+70	***	*****	<85	12	4,0	2900
S 45 S 46+50	***	*****	<80	14x19 13	2,2 3,0	2900
S 40 S 41 S 42	*****	***	<75	20	1,1	2900



## 2" - DN 50

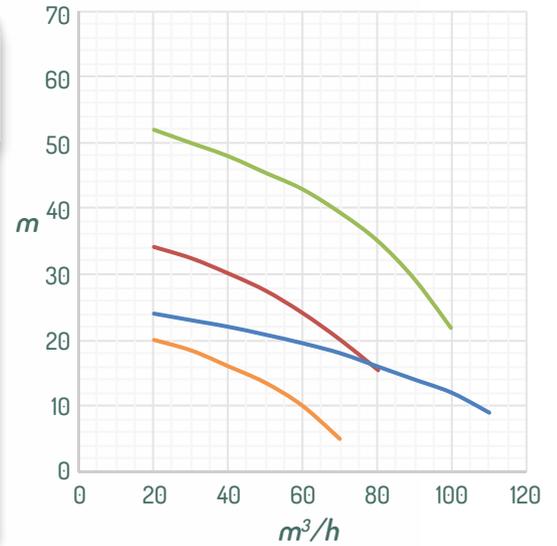
Model	Heavy duty	Self-priming	Noise dB(A)	Passage of solids mm	400 V, 50 Hz motor	
					kW	rpm
S 68 S 69	***	*****	>85	25	11	2900
S 68+40 S 69+40	*****	*****	<85	25	7,5	2900
S 63	**	*****	<85	22	7,5	2900
S 60+60 S 61+60	**	*****	<80	24	5,5	2900
S 60 S 61+50	****	*****	<80	17	4	2900
S 67	*****	****	<75	24	5,5	1450
S 65 S 66	*****	**	<70	25	2,2	1450
S 50 S 51	****	***	<80	25	2,2	2900



# 50 Hz Performance

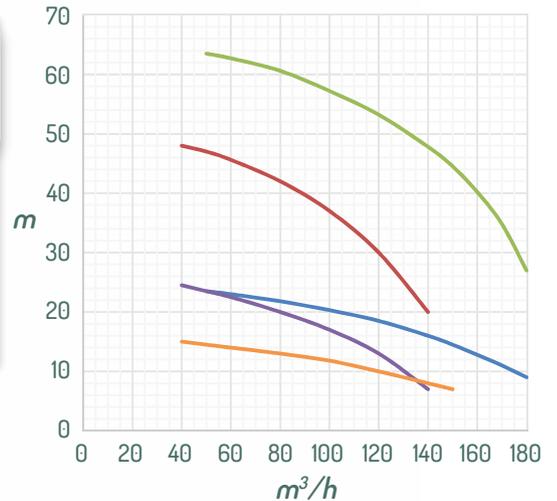
## 3" - DN80

Model	Heavy duty	Self-priming	Noise dB(A)	Passage of solids mm	400 V, 50 Hz motor	
					kW	rpm
S 88	★★★	★★★★★	>85	35	15	2900
S 83	★★★	★★★★★	>85	27	7,5	2900
S 91	★★★★★	★★★★	<85	37	7,5	1450
S 80+60	★★★	★★★★	<85	32	5,5	2900
S 81+60						
S 82+60						
S 80	★★★★	★★★	<85	32	4	2900
S 81						
S 82-50						
S85	★★★★★	★★	<75	40	4	1450



## 4" - DN 100

Model	Heavy duty	Self-priming	Noise dB(A)	Passage of solids mm	400 V, 50 Hz motor	
					kW	rpm
S126	★★★	★★★★★	>85	42	30	2900
S108(210)	★★	★★★★★	>85	35	18,5	2900
S121	★★★★	★★★★★	<80	45	11	1450
S100	★★★	★★	>85	37	11	2900
S105	★★★★★	★★	<75	45	5,5	1450



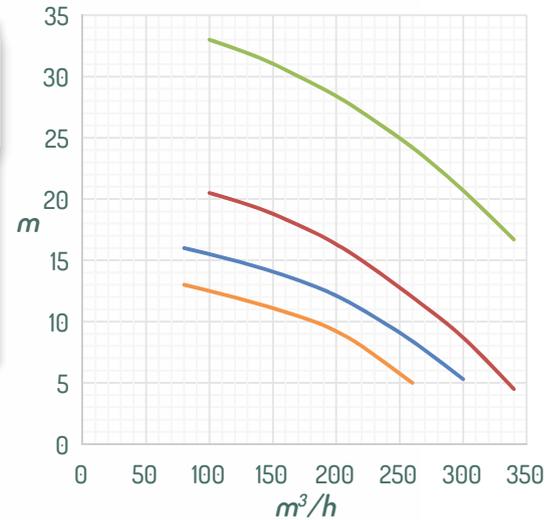
Heavy duty / Self-priming: ★ = SUFFICIENT / ★★ = DISCRETE / ★★★ = GOOD / ★★★★ = VERY GOOD / ★★★★★ = EXCELLENT

The data shown refer to standard pumps. For more information contact our sales offices.

# 50 Hz Performance

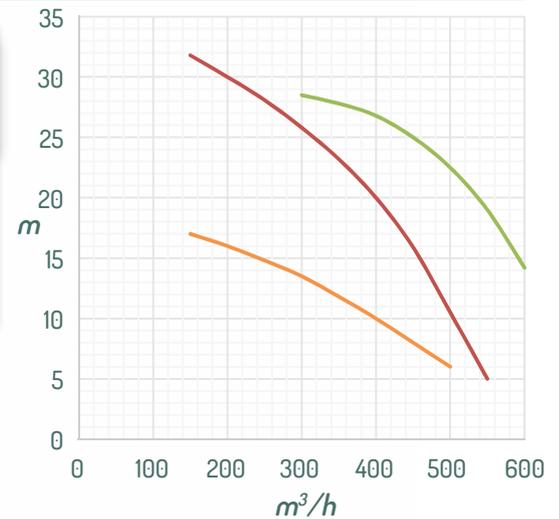
## 6" - DN 150

Model	Heavy duty	Self-priming	Noise dB(A)	Passage of solids mm	400 V, 50 Hz motor	
					kW	rpm
S180	★★★	★★★★★	>85	40	30	1450
S161	★★★★	★★★★★	<85	54	18,5	1450
S163	★★★★★	★★★★	<85	54	11	960
S170	★★★★★	★★★★	<75	54	11	960
S150	★★★★	★★★	<85	72x50	11	1450



## 8" - DN 200

Model	Heavy duty	Self-priming	Noise dB(A)	Passage of solids mm	400 V, 50 Hz motor	
					kW	rpm
S230+50	★★	★★★★★	>85	72	55	1450
S230+40	★★★	★★★★★	>85	54	45	1450
S201+50	★★★★	★★★★★	<85	57	22	1450
S220+50	★★★★★	★★★	<80	76	18,5	960



Heavy duty / Self-priming: ★ = SUFFICIENT / ★★ = DISCRETE / ★★★ = GOOD / ★★★★ = VERY GOOD / ★★★★★ = EXCELLENT

The data shown refer to standard pumps. For more information contact our sales offices.





## The Company: past and present

**Forties:** Ettore Varisco founded the Family Company, starting the production of self-priming centrifugal pumps.

**Fifties:** The production of internal gear pumps begun. Vittorio started supporting his father Ettore in the company management. He was particularly engaged in the design and development of pumps.

**Sixties:** Vittorio's younger brother Giuseppe (Pino), joined the board of the Company. Together they achieved important nationwide results.

**Seventies:** International sales got started and Vittorio Varisco established the new branch in Germany.

**Eighties:** The company was constantly expanding and obtained a relevant role in its sector worldwide.

**Nineties:** The German company and the Italian one got separated. In 1996 the Varisco Pumpen GmbH became Victor Pumpen GmbH. Vittorio Varisco designed the "S" and "R" pumps and rationalized the production by introducing the modularity, which is still in use today.

**Today:** The family tradition and the passion for the pump design continues thanks to the experiences of Vittorio Varisco and the innovations of his son Paolo. Reliable pumps for multiple sectors enter the market, especially designed based on the numerous applications that these machines offer.

Victor Pumps boasts an increasing number of specialized collaborators, a modern production facility with a State of the art & neoteric system to constantly trace the pumps produced.

Today, Victor Pumps is projected into a prosperous future.



## Philosophy

Victor Pumps guarantees its customers reliable pumping solutions at an affordable price. This is why it has skilled technical personnel who analyses each question with dedication in order to advice partners and customers the right pump and how to install it. In fact, precise information is essential for a good result.

Our company can count on a dense network of partners who can guarantee customers satisfaction . The customer who has achieved his goal is the one that always comes back with new and stimulating requests. This is what Victor Pumps is looking for. That is the reason why Victor Pumps is increasingly well known and represented worldwide.

Victor Pumps is exhibiting for more than fifty years in trade fairs in Germany, it is first in the industrial appliactions market. Customers can come and meet us on the stands of the "IFAT" in Munich and "Achema" in Frankfurt.





Victor partners pay attention to the needs of the different markets around the world.



For every request we demand the right attention to get highest quality and unique pumping solutions, thanks to our project-oriented work style .

The more questions you will answer, the more quickly and effectively we can help you.

## 12 USEFUL QUESTIONS FOR THE OFFER REQUEST

- Flow
- Pressure
- Type of liquid
- Viscosity of the liquid
- Use of the pump
- Type of plant
- Suction height
- Liquid temperature
- Operating hours per day
- Voltage (V)
- Frequency (Hz)
- Experiences on the pump used previously

## Spare parts

All our pumps have a unique serial number that makes them traceable.

This enables you to know how every single pump has been assembled and to select the exact spare parts to extend its life.



We guarantee the possibility to repair every single pump for 15 years and we gladly maintain the J and V series pumps which go back to our first years of design.



## Research and development



Our technical staff uses the most modern drawing and design programs to select the best construction choices without neglecting the aesthetics of the pumps. Thanks to the great amount of experience accumulated over the years by his family, Paolo Varisco, himself, verifies and perfects the product to always give the best to his customers.

We often need to adapt our pumps to meet the ever-increasing number of requests of the global market. Our attention is not only focused on the mechanics and technology of the pump, but also on its painting and packaging, so that the end user receives a high-quality and nice product.

Well done Victor Pumps!

German technology  
and design made in  
Italy travelling  
around the world.



CERTIFICATIONS



SAFE PACKAGING



SHIPPING CHECK

Paris 530 km

Genf 8300 km

270 km

Basel 150 km

London Madrid 1200 km

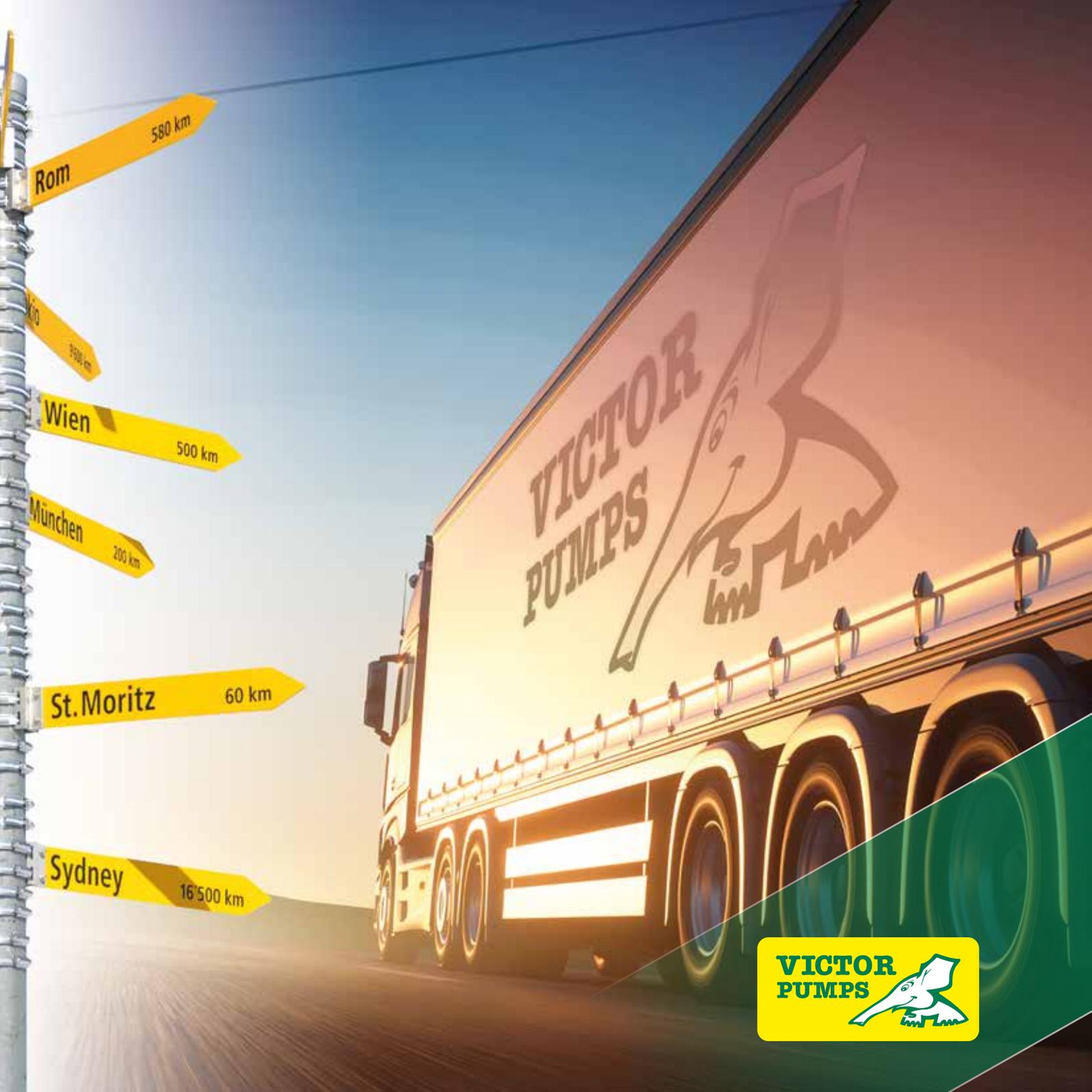
New York 6300 km

Hawaii 12200 km

San Francisco 9350 km

Zürich 80 km

Pizol 34 km



Rom

580 km

Wien

500 km

München

200 km

St. Moritz

60 km

Sydney

16'500 km

VICTOR  
PUMPS



**VICTOR  
PUMPS**



We like to see beyond.



*Vittorio Varisco*

Acknowledgments:

ART DIRECTION and 3D DESIGN: Victor Pumps Srl  
PHOTOGRAPHY: Getalook - [getalook.it](http://getalook.it)

**S**

SELF-PRIMING  
CENTRIFUGAL PUMPS

**C**

CENTRIFUGAL PUMPS  
WITH OPEN IMPELLER

**R**

INTERNAL GEAR  
PUMPS



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