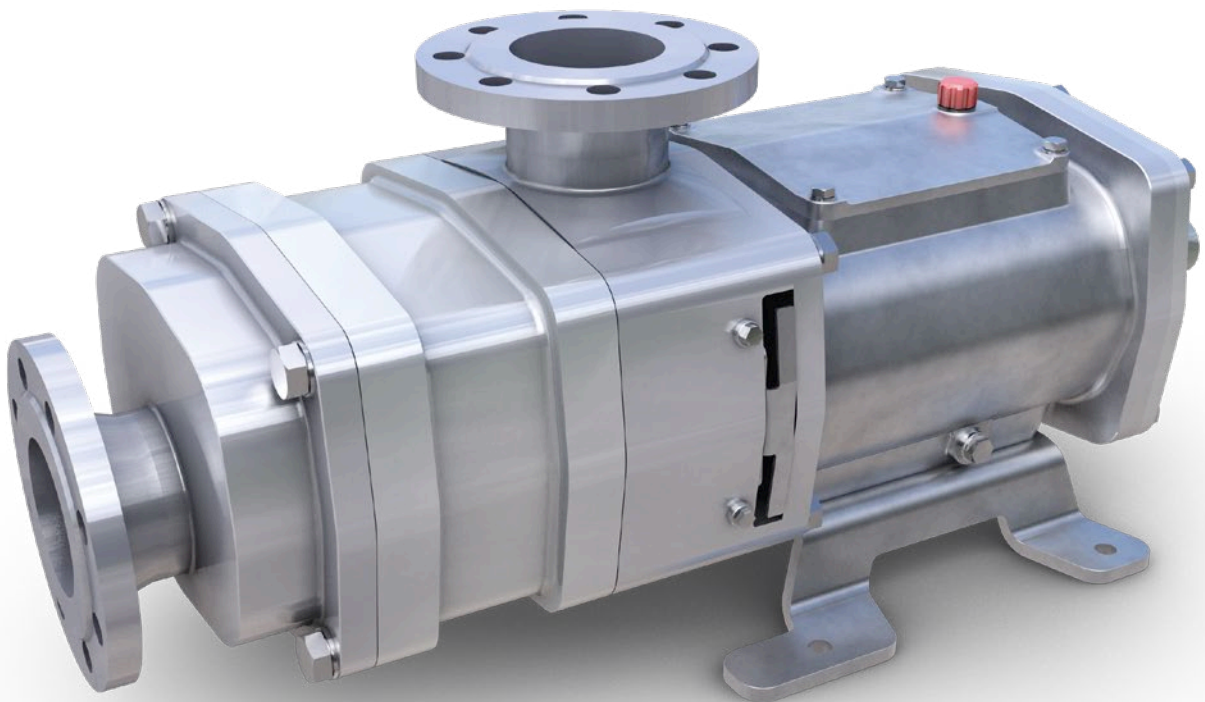




SINGLE-FLOW TWIN SCREW PUMPS



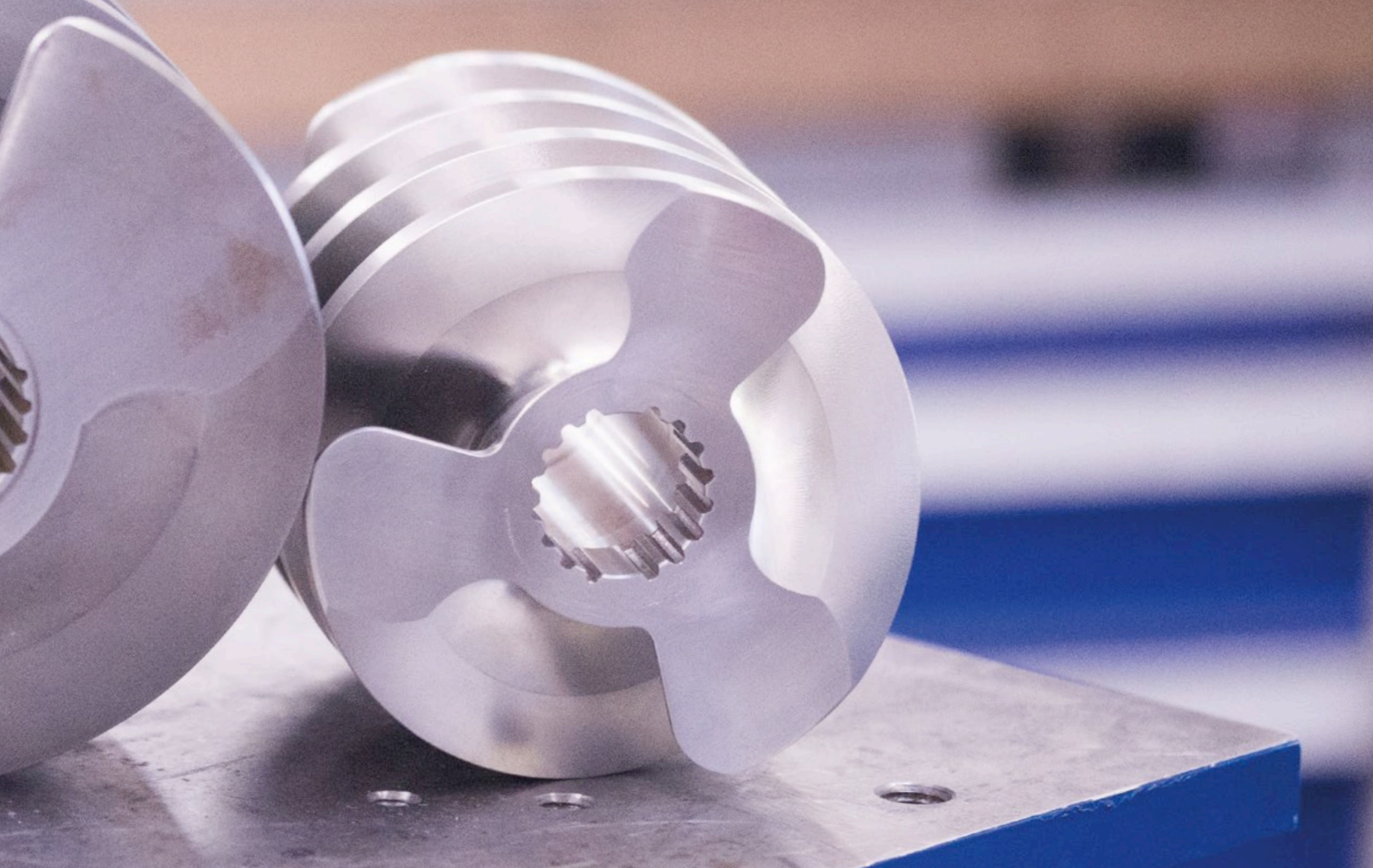
ABOUT VPS

VPS is the industrial pump series from Fristam Pumpen Schaumburg, the leading manufacturer of single-flow, externally mounted twin screw pumps. We are specialized in pumping solutions within the field of oil and gas, tank terminals, petrochemicals and chemicals, as well as special industrial applications. Our team has more than 100 years experience in the area of twin screw pumps.

We are your partner for planning, consulting, project management and implementation of your individual pumping tasks. We provide you with this:

- › technically optimal solutions for your application
- › individual, customer-specific solutions
- › high economic efficiency
- › maximum parts availability

Our corporate philosophy is: We deliver only the best. We inspire our customers with competence and speed. We convince not only with our products, but also with our unique consulting quality, flexibility and innovation.



TECHNOLOGY

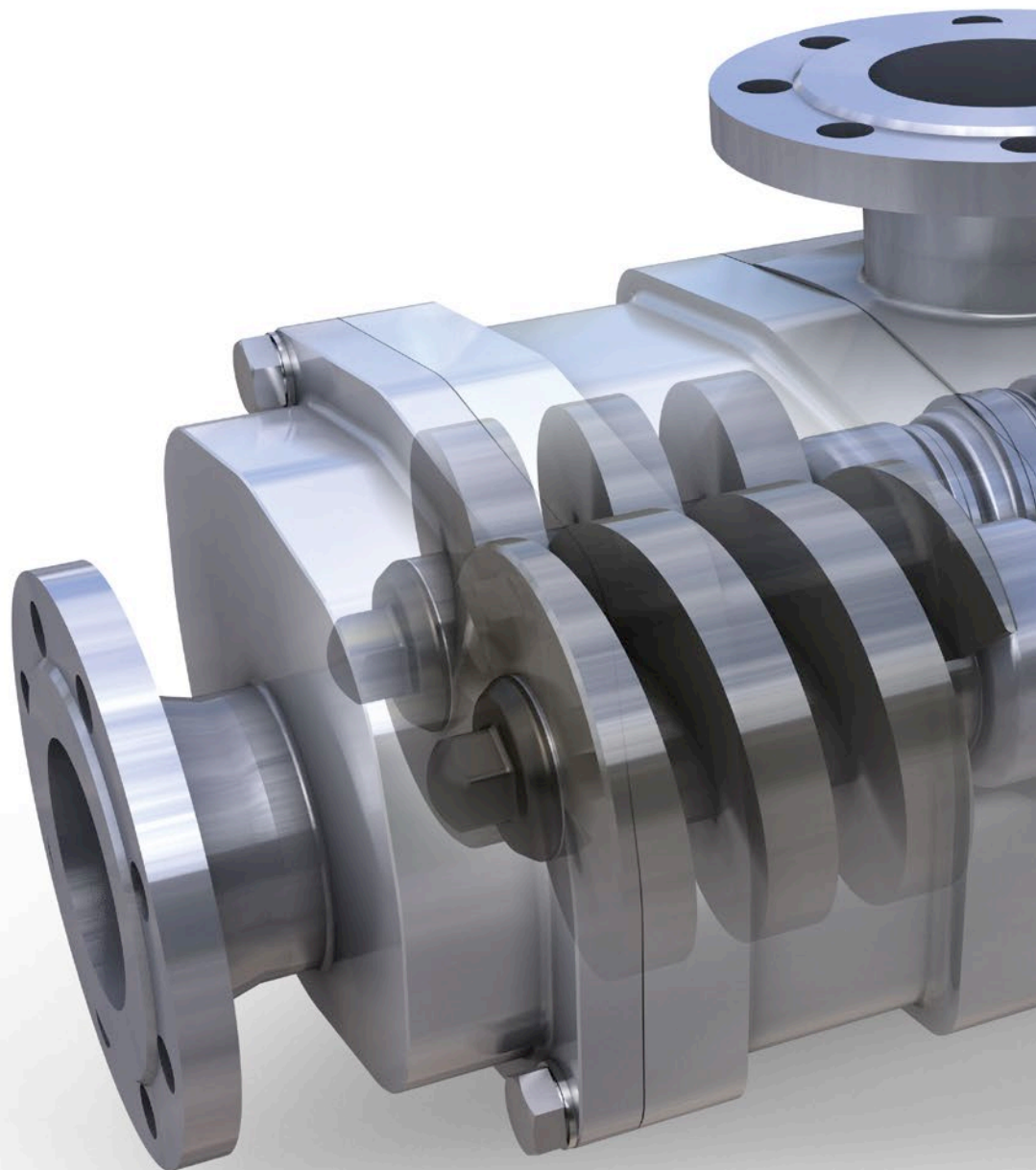
The VPS twin screw pumps are self-priming, dry-running and resistant positive displacement pumps made of stainless steel or cast steel. They are designed for pressure ranges up to 25 bar, but can also be used in pressure ranges up to 50 bar. The VPS range has 5 different pump sizes to cover a wide range of applications. The pumps can pump both volatile liquids such as petrol (short-chain HCs) and viscous substances such as bitumen.

The single-flow VPS technology is extremely economical and, depending on the version, can be easily integrated into the existing system technology. Thanks to their design, individual components such as seals are easy to replace in just a few simple steps, making the pumps particularly efficient.

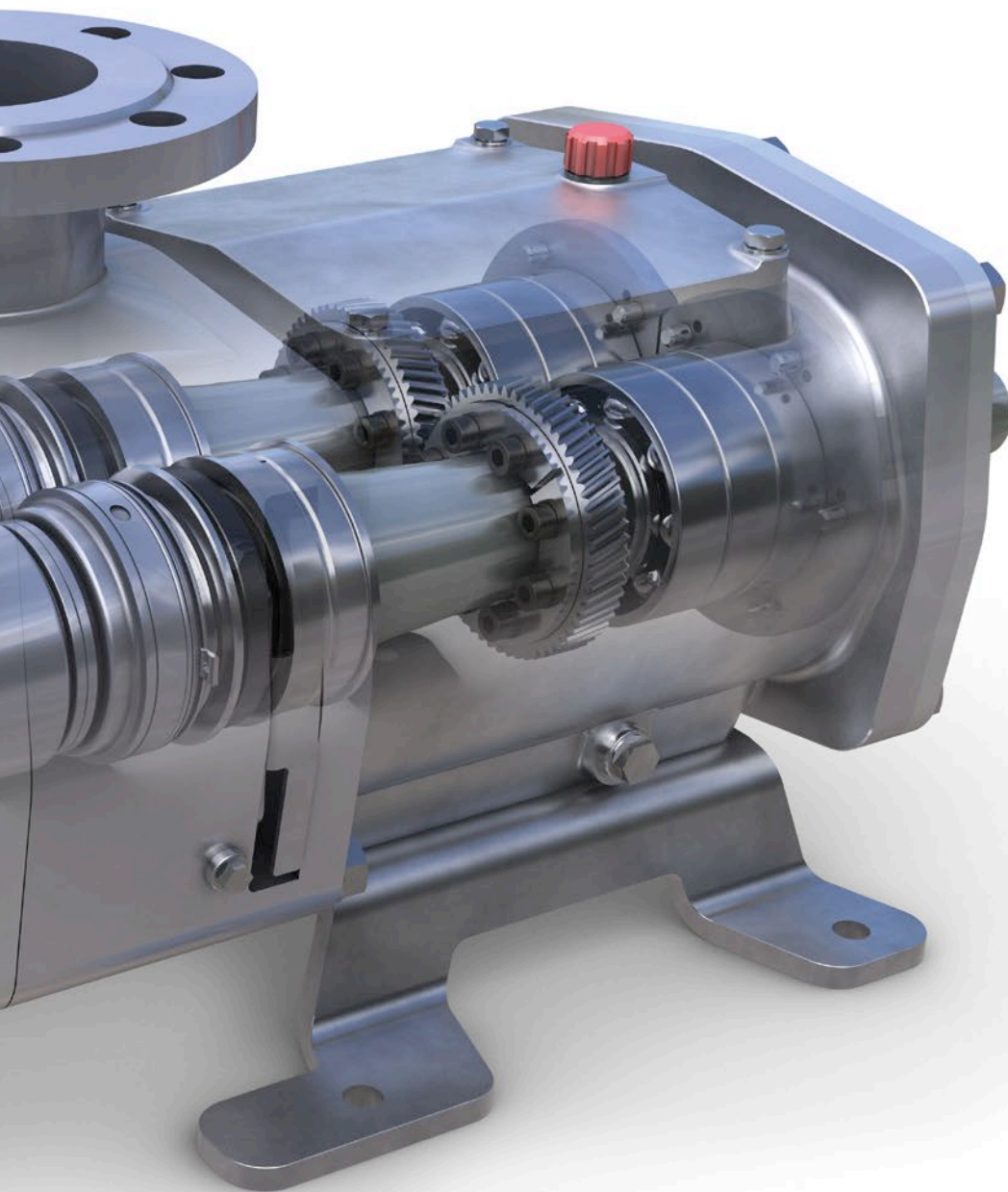
Overview of features of single-flow twin screw pump technology:

- › flying bearing
- › wide speed range
- › various screw pitches and profile shapes for all applications
- › extremely good suction properties due to very low NPSHr
- › low pulsation and low shear
- › flexible: pumping from diesel to heavy oil
- › (large viscosity band)
- › easy to maintain due to easy access to conveying elements and mechanical seal
- › various material versions

OUR PRODUCTS

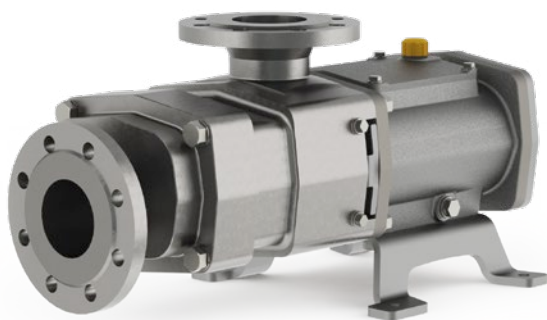


A modular system allows different pump executions to be assembled flexibly to meet different requirements. With the basic product, the VPS twin screw pump series, we create an extremely stable and robust basic construction. It contains the decisive fundamentals for a reliable pump: robust and stable bearings, a sealing chamber and feed screws.



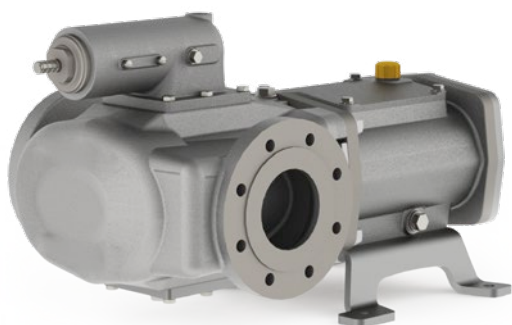
- › conveying elements run contact-free which means abrasion-free and safe to run dry
- › stable characteristic curve in the event of changing operating parameters, even with low flow rates
- › trouble-free transport of low to highly viscous products (e.g. ethanol at $0.6 \text{ mm}^2/\text{s}$ or asphalt at $74,000 \text{ mm}^2/\text{s}$)
- › reversible operation possible
- › very good suction performance ($\text{NPSHr} < 1.5 \text{ m}$)
- › gentle, virtually pulsation-free liquid transport without crushing or turbulence

VPS SERIES



VPS

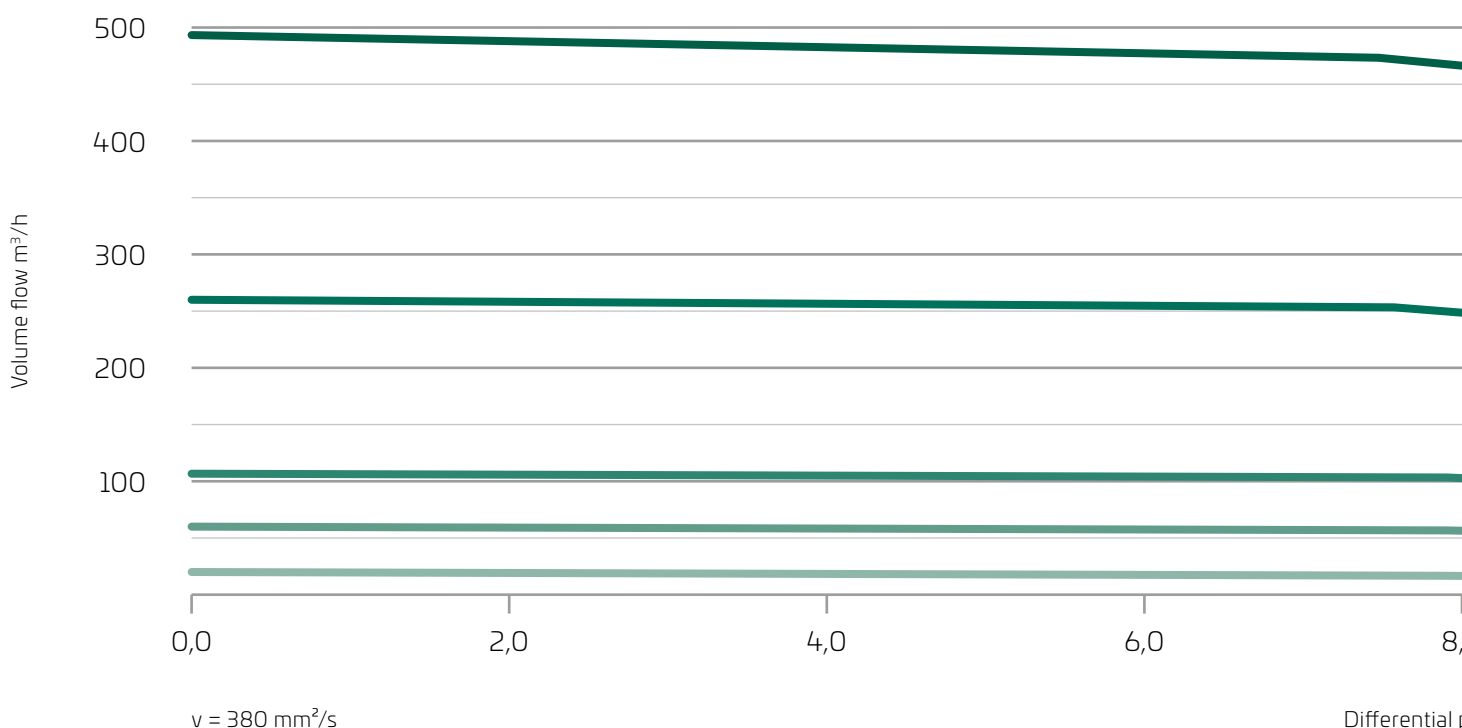
The “all-rounder” among our products is the VPS series with single-flow technology in five different sizes. Pressures of up to 25 bar and medium temperatures of up to 180 °C (with special arrangements even up to 230 °C) can be achieved in the configuration. The VPS can handle volume flows of up to 500 m³/h. An additional benefit: simple seal replacement in just four simple steps.

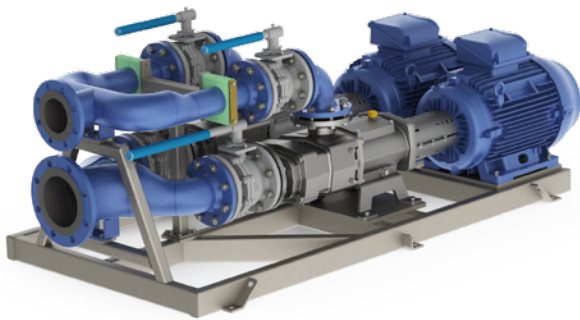


VPSI

The inline version of the VPS, called VPSI, is particularly easy to install. Its cast pump housing in various materials allows easy integration into pipelines without offset. Individual components and wear parts can be easily replaced. The single-flow pump technology covers the majority of double-flow applications and is also suitable for smaller flow rates.

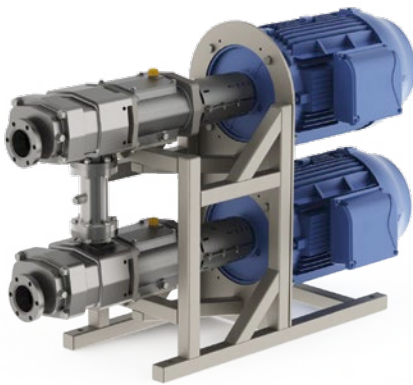
Flow data VPS Series





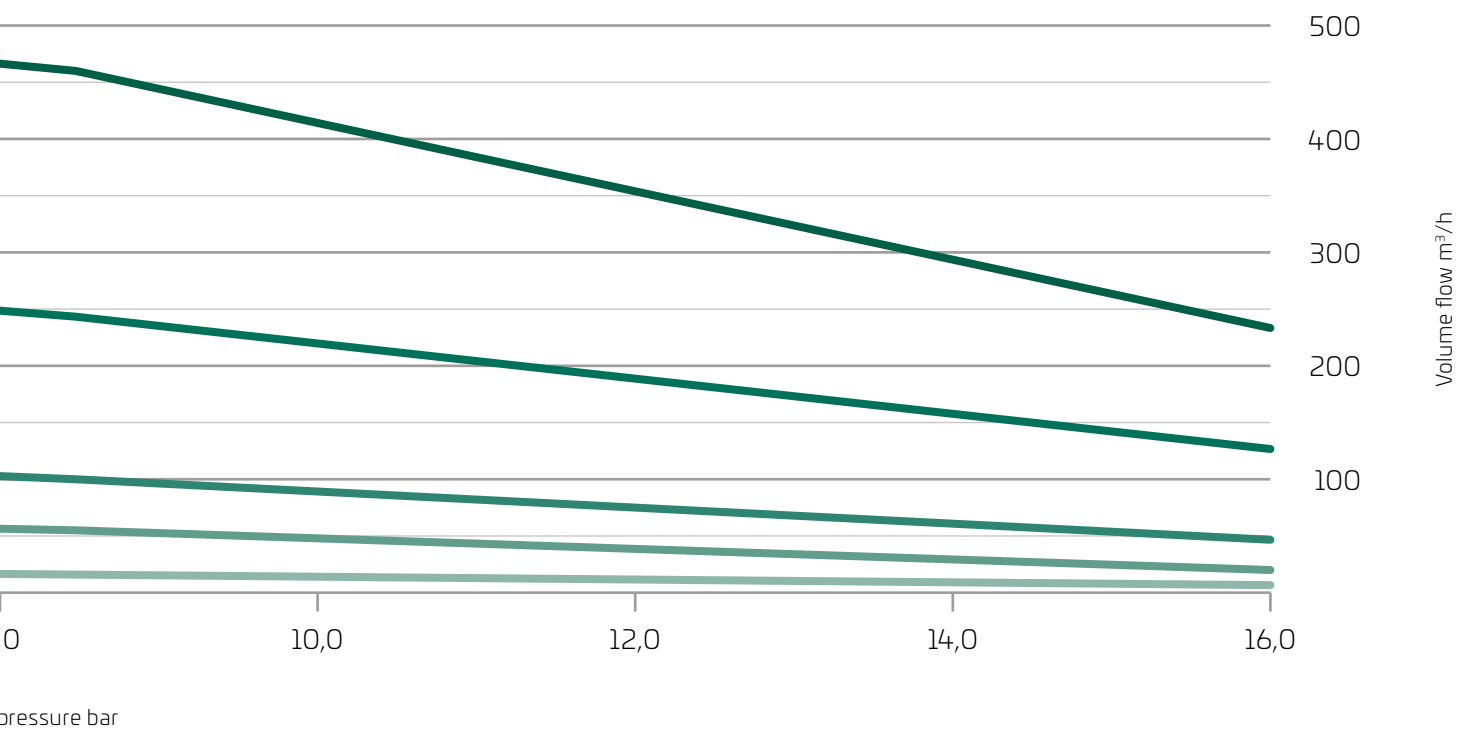
VPS FLOW PACK

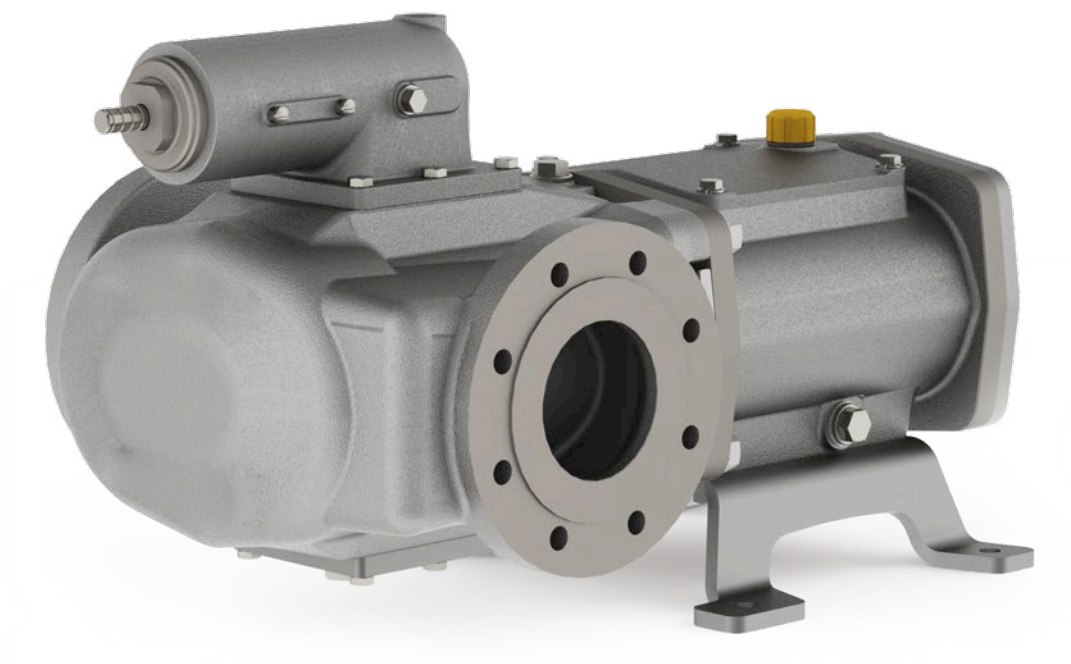
VPS Flow Pack is designed for larger flow rates and high volume flows. The system is based on two VPS pumps connected in parallel which are driven by one frequency converter. During handling, particular attention was paid to ease of maintenance and operational reliability. Should one pump fail during the unloading process, it is always possible to safely terminate the process with the second pump, i.e. with 50 percent of the flow rate. This means there is no downtime.



VPS POWER PACK

VPS Power Pack is a unit with two VPS pumps in series designed for pressures up to 50 bar. The compact design and the control via a frequency converter enable an efficient installation, even under challenging conditions, as well as a unit based on standard pumps adapted to every application.





It is important to us that you are not just a customer, but a highly satisfied customer with the good feeling of having chosen the ideal pump for your requirements. That's why we always advise you on the basis of the pump version that suits you best.

Please contact us for a personal appointment.

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