

VP Series

CONTINUOUS FLOW
Absolute Control

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Product Overview



The VOSS VP Series Servo Progressive Cavity Pump is engineered for **continuous precision transfer** of viscous, shear-sensitive, and solid-laden fluids. With a versatile flow range of 100–2000 L/h, this pump boasts a stable low-pulsation output, ensuring optimal fluid integrity during operation. Its **servo-driven technology** allows for a wide adjustment range, making it ideal for applications such as polymer dosing, mining reagents, food processing, and chemical process liquids. Designed for reliability and efficiency, the VP Series serves industries that demand **exceptional performance** and precision, providing a seamless integration into automated processes. Experience the pinnacle of engineering with the VOSS VP Series, where advanced functionality meets high-quality construction.

Designer Profile



Noah Sinclair

Industrial Automation Engineer Smart Dosing Systems

Noah Sinclair graduated from **Politecnico di Torino** in Automation Engineering and has 16 years of experience in industrial automation and high-viscosity fluid transport systems. He specializes in automated control and continuous process optimization for high-viscosity, shear-sensitive, and solid-containing fluids, particularly in servo-controlled progressive cavity pumps for precise flow delivery.

At VOSS, Noah Sinclair oversees the system architecture and automation control strategy for the VP Series servo progressive cavity pumps. By optimizing pump drive, cavity design, and speed control algorithms, the VP Series delivers low-shear, stable flow of viscous, shear-sensitive, and solid-laden fluids while ensuring high-precision dosing in continuous processes.

Design Philosophy

Low-shear, high-precision fluid
transfer solutions

Key Design Principles

- **Suitable for medium and high viscosity** fluids, ensuring optimal performance
- **Low-shear smooth transfer** to maintain fluid integrity in processes
- **Precise servo speed control** allowing for wide adjustments in flow rates
- **Modular pump body** design enabling easy maintenance and repairs



Key Features

Advanced Design for Reliable
Performance

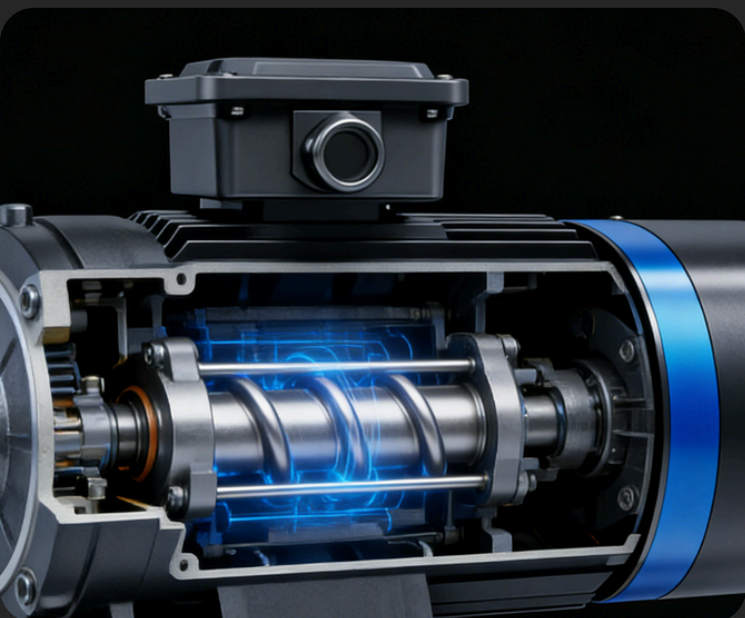
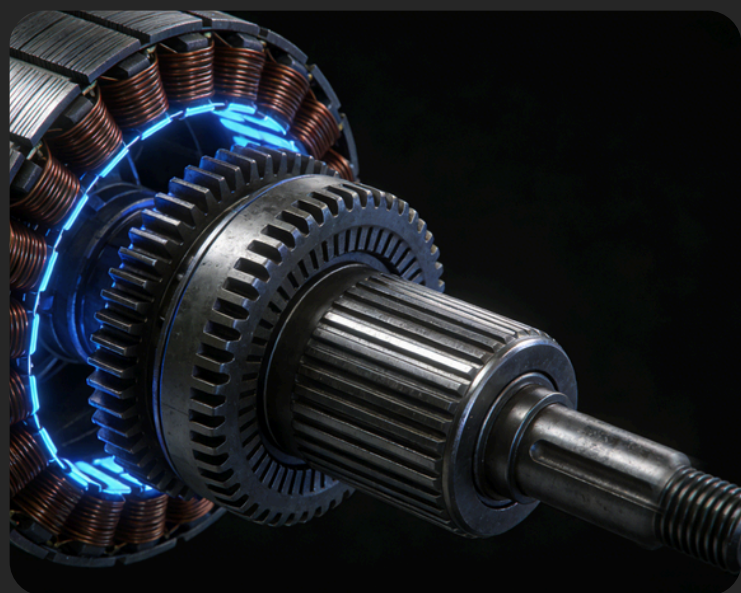
Highlighted Features of the VP Series

- Suitable for medium- to high-viscosity and shear-sensitive fluids
- Low-shear, smooth flow to preserve fluid integrity
- Precise servo speed control with wide flow adjustment range
- Modular design for easy maintenance and high stability



Model Selection

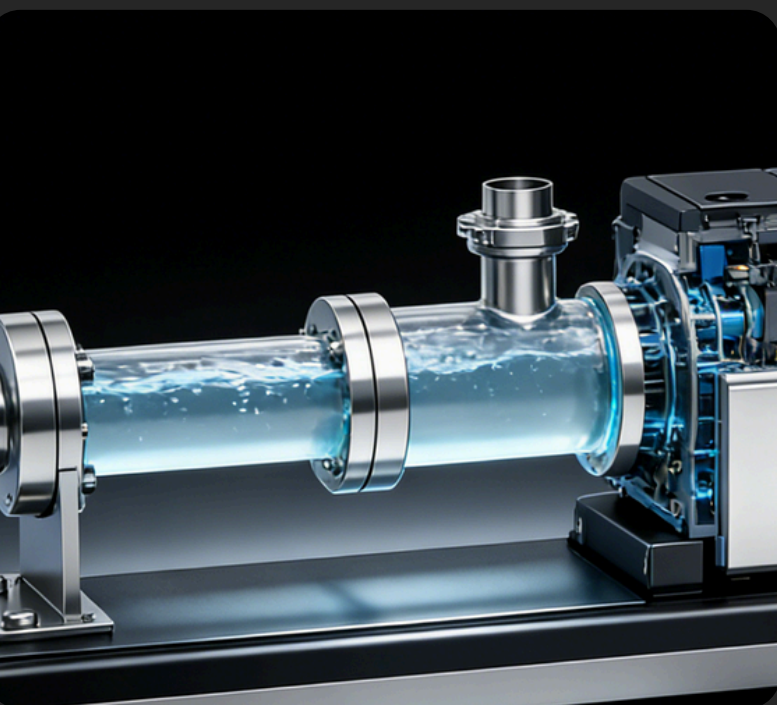
The VOSS VP Series offers an impressive range of models tailored for various industrial applications. Each model is designed to deliver optimal performance with specifications that cater to specific needs. From the VP100-12 to the powerful VP2000-04, our pumps ensure precise fluid transfer, stability, and reliability, making them ideal for continuous processes across multiple sectors.



Each model in the VP Series is engineered for precision and efficiency, suitable for a variety of viscous and shear-sensitive fluids. The modular design ensures easy maintenance and adaptability to your specific process requirements. With options for varying flow rates and pressures, our pumps are versatile solutions for industries ranging from food processing to chemical handling, providing reliability in continuous operations.

General Technical Data

The VOSS VP Series Servo Progressive Cavity Pump is engineered to deliver **exceptional performance** across various industrial applications. With a flow adjustment range of 10–100% and high flow stability, it efficiently manages medium to high viscosity fluids while maintaining optimal conditions. Designed for temperatures ranging from 0–80 °C, it also ensures reliable operation in various environments, powered by AC 380 V / 50 Hz and protected with an IP55 rating.



Designed for **versatility and reliability**, the VOSS VP Series excels in various applications. It operates effectively within a broad viscosity range and maintains consistent performance, even under fluctuating conditions. The pump's ambient temperature tolerance of 0–45 °C ensures stable functionality, while the robust protection rating of IP55 safeguards against environmental factors. This makes the VP Series ideal for demanding industrial environments, ensuring precision and durability in every operation.

Applications



The VOSS VP Series Servo Progressive Cavity Pump is versatile, tailored for a range of industrial applications. Its **precision capabilities** make it ideal for **polymer dosing**, ensuring accurate chemical proportions in manufacturing processes. In mining, it efficiently transfers slurries, maintaining a stable flow even with heavy solids. The pump excels in food processing, where maintaining product integrity is crucial, allowing for gentle handling of shear-sensitive liquids. Additionally, it supports automated metering systems, enhancing process efficiency and reliability across various industries. The VP Series is engineered to meet the demands of continuous process dosing, providing unmatched performance and ensuring optimal results in every application.

Model Selection Table

Model	Max Flow (L/h)	Max Pressure (bar)	Power	Connection	Weight
VP100-12	100	12	550 W	DN25	18 kg
VP300-10	300	10	750 W	DN32	25 kg
VP500-08	500	8	1100 W	DN40	32 kg
VP1000-06	1000	6	2200 W	DN50	45 kg
VP2000-04	2000	4	4000 W	DN65	68 kg

General Technical Data

Parameter	Value
Flow Adjustment Range	10-100%
Flow Stability	High
Suitable Viscosity	Medium to high viscosity
Liquid Temperature	0-80 °C
Ambient Temperature	0-45 °C
Power Supply	AC 380 V / 50 Hz
Protection Rating	IP55



Support

VOSS provides not only standard product documentation, but also engineering-oriented support for project implementation.

including:

- Model selection assistance
- Installation guidance
- Automation integration suggestions
- Operation and maintenance support
- Project documentation coordination



Precision Fluid Transfer for Industrial Processes

VOSS is committed to delivering precise, stable, and integration-friendly fluid transfer and dosing solutions for industrial customers.

The VP Series Servo Progressive Cavity Pump is designed for complex media and continuous process applications.

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