

eVCP

Electric Variable Clearance Pocket

Safely optimize compressor efficiency when field conditions change


HOERBIGER

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Our eVCPs have demonstrated a 10 percent increase in capacity through the better utilization of our compressors' horsepower.

eVCP Natural Gas Customer

eVCP – Automated, easy-to-use, stepless capacity control

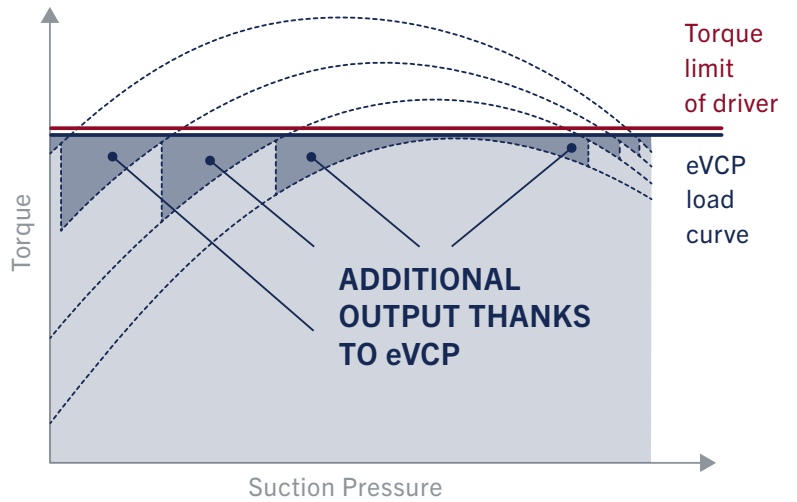
What is eVCP?

The HOERBIGER Electric Variable Clearance Pocket (or eVCP) is an automated, stepless, variable clearance pocket system that helps better maximize capacity from your compressors. Incorporating eVCP into your compressor setup moves your output to the maximum.

How does eVCP work?

By allowing a user to steplessly adjust a reciprocating compressor’s capacity in real time, eVCP enables you to precisely control the load and maximum throughput, even under fluctuating field pressures and conditions.

As shown in this diagram, eVCP eliminates the gaps between the “actual” load on the machine and the maximum “possible” load compared to stepwise control methods. With eVCP, control is fully automatic due to the system interfacing with the compressor’s control system.



What are the benefits of using eVCP?

With eVCP, you can capture the additional capacity that stepped systems leave behind, with some customers reporting an additional 10% capacity gain. The result: No more manual adjustments, and no more lost output. Additional benefits of eVCP are highlighted below.

Benefits	Advantages	Features
Produce and sell more gas	Increase production efficiencies in fluctuating suction pressure applications	Automated stepless control
	Reduce lost production opportunity	
	Gain operational flexibility and increase utilization	
Improve safety on site	Compressor is auto set to safe operating range, minimizing wear and unscheduled breakdowns	
	No need to manually stop machines to safely adjust pockets; reduce unplanned manual compressor work	
Lower emissions and comply with stricter standards	Engines operate at full capacity and run cleaner with less emissions	

Maximize capacity with a rugged design, automatic control and easy maintenance

Simplified, automatic control

Interfaces with the compressor's control system, allowing for stepless, real-time adjustments to compressor load and capacity, with continual monitoring

Heavy-duty housing and components

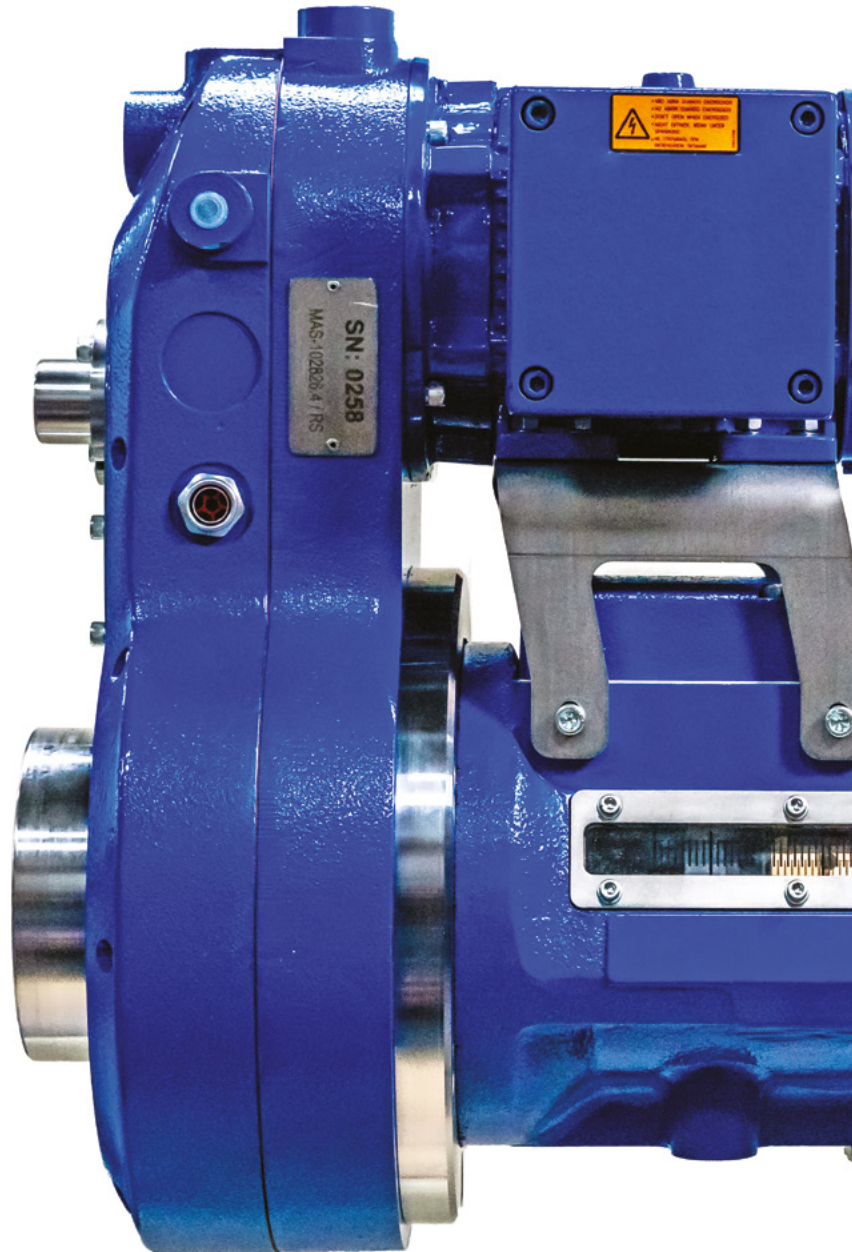
Standardized parts offer enhanced durability with minimal maintenance

Long life and greater performance

Built for tough environments, eVCP's maintenance cycle is aligned with typical overall compressor maintenance

Ease of installation and service

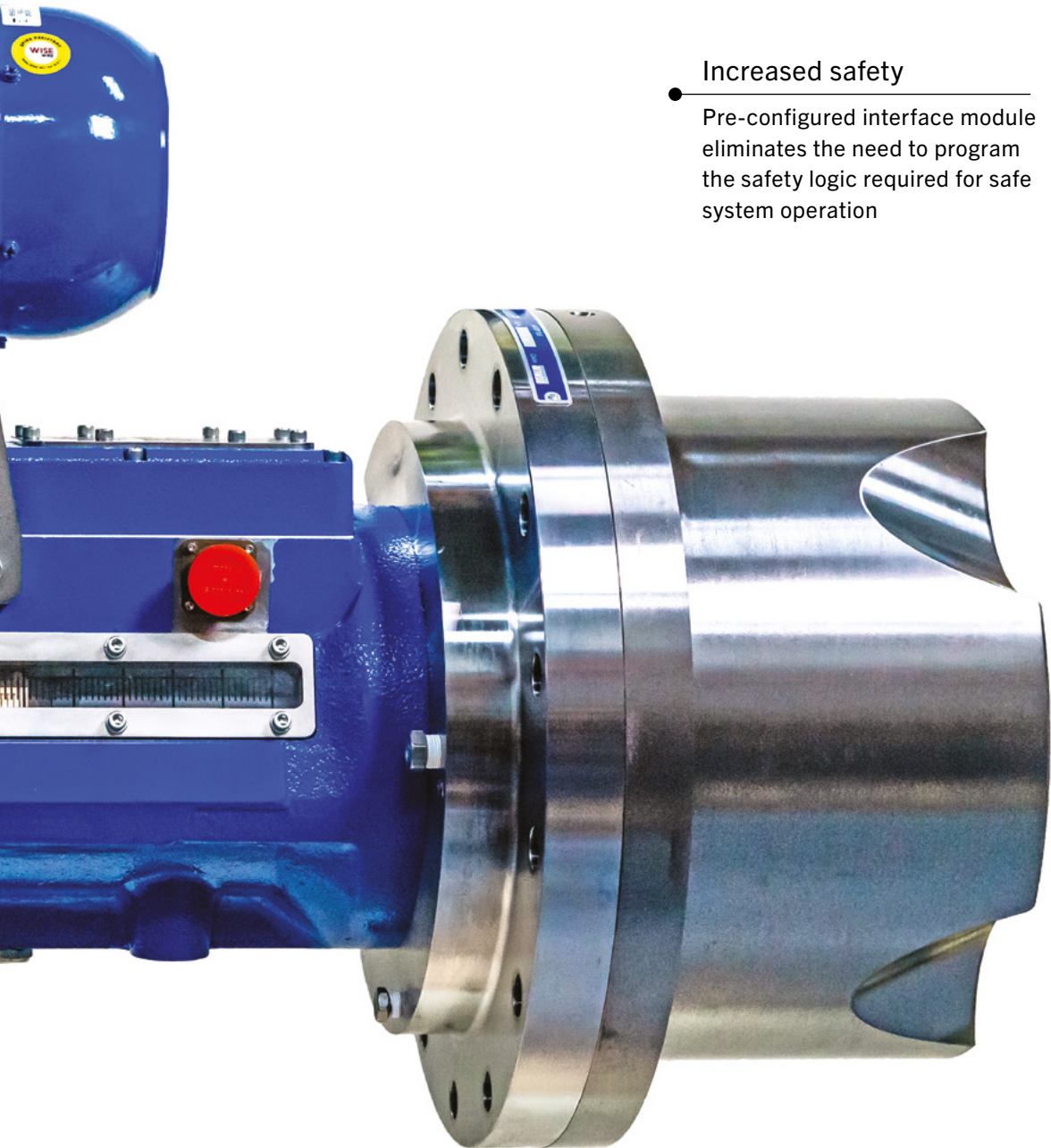
Wear components are easy to access, simple to replace when needed



eVCP’s robust design and safety automation ensures more precise load control and prevents improper adjustments. This system is also easy to maintain in the field—it uses standard components and requires minimal maintenance onsite.

● Increased safety

Pre-configured interface module eliminates the need to program the safety logic required for safe system operation



Key Benefit

Economics

Make more money and produce more gas with eVCP. By optimizing production in fluctuating suction pressure applications, you gain additional throughput. The system also helps your compressors run more safely, decreasing the risk of unscheduled shutdowns and further increasing your machines' reliability. This also saves money due to less wear and maintenance, and a decreased need for spare parts. All of this is made possible thanks to eVCP's automated stepless control.

Key Advantage ▶

Increase throughput thanks to the increase in utilization and operational flexibility

Key Benefit

Compliance

Increase production sustainability and avoid compliance and environmental regulations issues. With this increase in operational flexibility and utilization, you're able to produce more with the same or less effort. eVCP also can help your engines run cleaner, thus increasing compliance with stricter emissions laws and standards.

Key Advantage ▶

Run your engines cleaner and produce less emissions



We have been looking for a design like this for 20 years.

eVCP Natural Gas Customer



Key Benefit

Safety

eVCP helps keep your compressor environment safer onsite. eVCP's automation eliminates the need to stop your compressors for manual clearance pocket adjustments and keeps your machines running in a safe operating range. This not only lessens the need to go onsite, but also reduces component wear and unscheduled shutdowns.

Key Advantage ▶

Safe and efficient operating ranges are automatically set and maintained





Learn more by visiting
www.hoerbiger.com/ecvp
today!



Contact us via email
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Locally close to the customers – globally successful: HOERBIGER is active worldwide in 43 countries on all continents. 6,174 employees at 133 locations – including 30 production plants – deliver reliable solutions for better performance, increased safety, and fewer emissions. In 2023, they generated sales of 1.416 billion euros. For renowned customers from the energy sector, the process industry, the automotive industry, the mechanical engineering industry, safety technology, and the electronics industry, performance-determining products and services from HOERBIGER make the difference. With innovations for decarbonization and energy transition, HOERBIGER is already enabling change today for a better tomorrow. As majority shareholder, the HOERBIGER Foundation preserves the 129-year-old entrepreneurial heritage and guarantees stability, independence, and a future-oriented strategy.

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