



HydroCOM

Stepless Capacity Control System

Achieve precise and fast process control
while saving energy


HOERBIGER

Solve stepless control tasks precise and fast

Many reciprocating compressors need to deliver less than their rated capacity, and this typically requires excess compressed gas to be returned to the suction side via a recycle valve. When this happens, the energy used to compress this recycled gas is wasted.

HOERBIGER's HydroCOM is a system for stepless capacity control for reciprocating compressors.

Working principles

Conventional capacity control systems waste energy because they either require gas to be compressed unnecessarily (bypass valves) or cannot accurately match the required flow rate (stepwise capacity control, which is also time-consuming to adjust).

HydroCOM, in contrast, offers a wide and stepless control range, from below 10% (depending on the application) up to 100%. Delivery rate can be adjusted continuously and automatically, with no time lag. Together with the wide turndown, this means you can operate your compressors more flexibly, cover your needs with a smaller fleet, react quickly and avoid overcapacity issues.

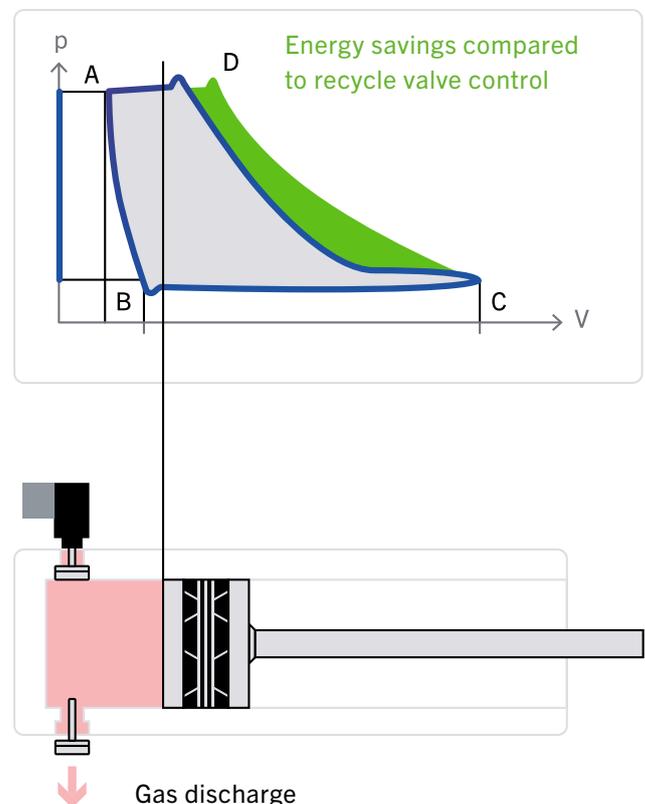


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Embedded temperature monitoring of suction valve covers allows insight into compressor conditions such as leaking valves. Due to its modular design HydroCOM is easy to integrate into both existing and new compressor installations. Process control tasks are implemented in a PLC or a loop controller. In a control cabinet the HydroCOM "Compressor Interface Unit" (CIU) carries out data exchange between DCS/ PLC and HydroCOM actuators.

Precise capacity control

HydroCOM continuously adjusts the compressor's delivery rate to match the amount required by the downstream process. Precise control of the suction valves eliminates the need for a bypass valve. This not only saves energy and reduces CO2 emissions, but also improves your process controls at the same time.



HydroCOM

- Is a proven solution for high force and critical applications
- Has an integrated suction valve temperature monitoring
- Hydraulics can be customized



Actuator

Microprocessors inside the actuator for precise timing of the solenoid valve (similar to common rail diesel injection systems). The solenoid valve controls the oil pressure acting on the hydraulic piston in the actuator. Suction valve temp. monitoring on-board.

Unloader

The motion of the unloader is controlled by the hydraulic piston in the actuator.

Suction Valve

HOERBIGER ring or plate type suction valve with non-metallic sealing elements ensures long lifetime and best efficiency.

Your benefits at a glance

- Lower investment and maintenance costs for multistage, efficient compressors as well as emissions reduction (“carbon footprint”)
- Reduced energy and emissions costs
- Increased reliability, efficiency and minimized risk of unplanned downtimes
- Complete and easy integration into the control system as well as easy upgrade and integration for existing compressors



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Contact us via email
c-globalmarketing.com@hoerbiger.com

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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