

EXCITE

THE HOERBIGER PIONEER CLASS



CP valve

The new standard in NG compression



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HORIZON

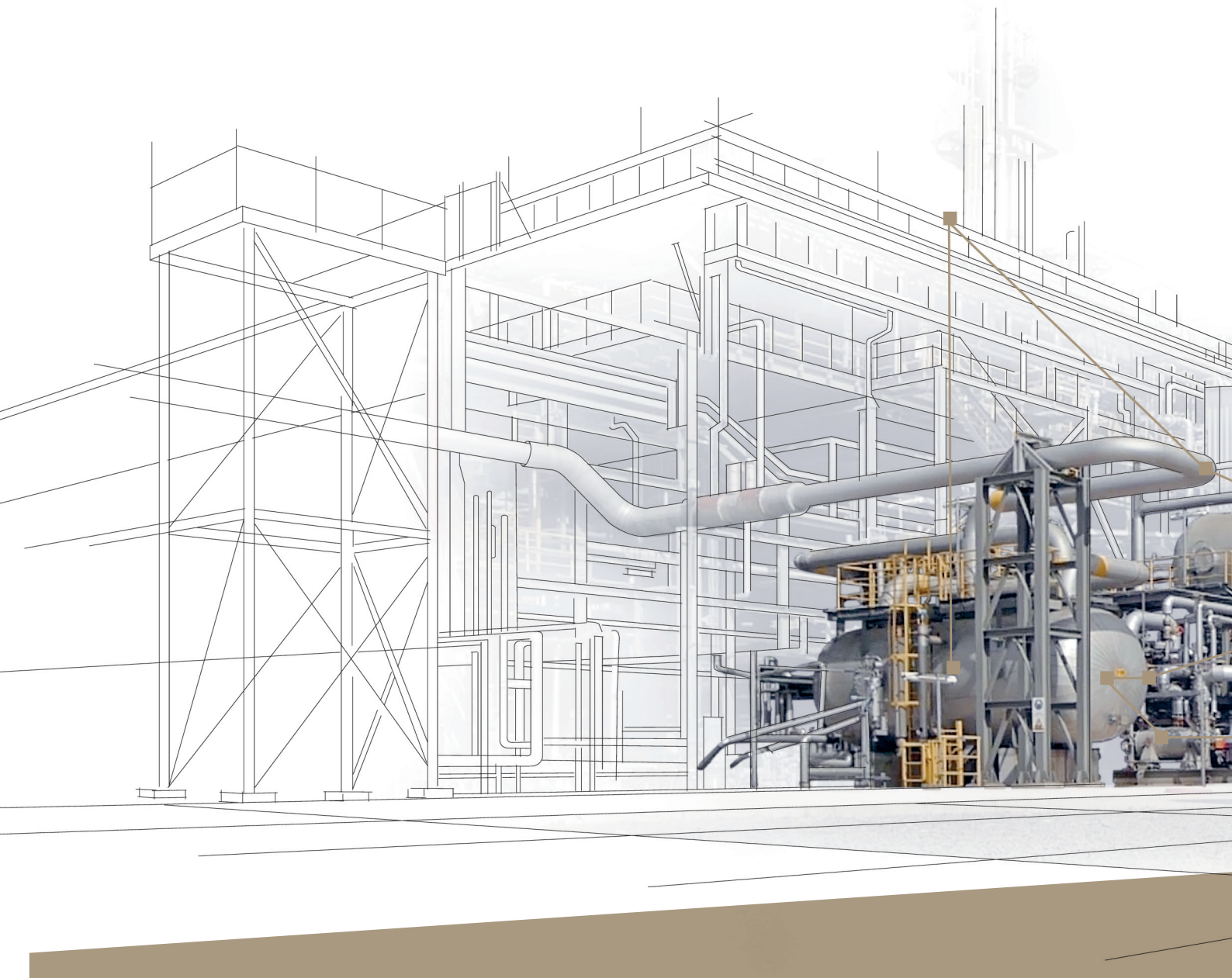

HOERBIGER
because performance counts

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Managing does not imply doing it alone. Rather, it means knowing whom to entrust with important tasks.

Those with an overwhelming concern for detail run the risk of losing sight of the big picture. This does not imply that minor details are insignificant. Successful management, however, requires delegating tasks to experts. As a customer, you develop integrated solutions jointly with HOERBIGER. Technology and service complement each other, forming a comprehensive package that meets the needs and challenges of modern companies. This includes, above all, avoiding downtime, costly production losses, and knock-on problems for other parts of the manufacturing operation. You decide individually in favor of tailor-made HOERBIGER warranty versions and service options. This makes HOERBIGER Excite the ideal approach to critical, sensitive, and challenging business situations.





“In general, it is not management’s objective to question the why and the how, but to see to it that a task is resolved. Being aware of this need, HOERBIGER works with leading industrial enterprises worldwide in perfect symbiosis – partnerships that value and trust in the expertise of the other party in its field.”

Precise: optimized performance

Sustainable: use of savings potential

Quick: Return on Investment



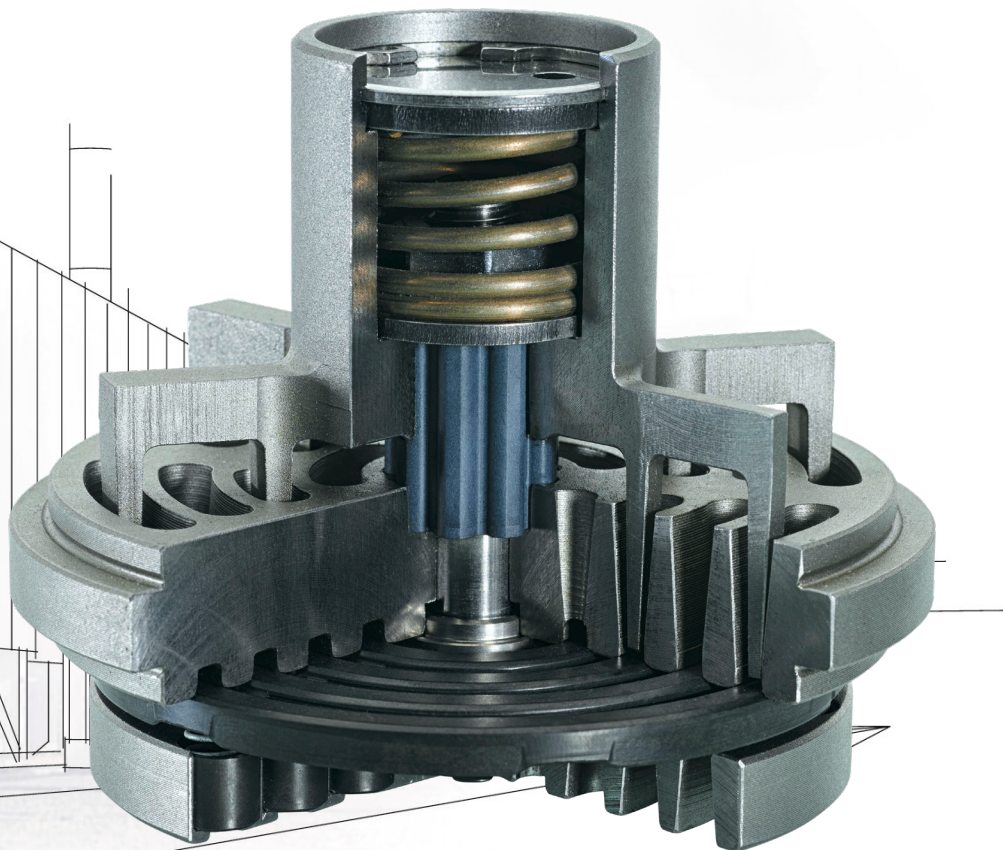
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Conventional valve designs have outlived their purpose when it comes to increasing the efficiency of compressors. HOERBIGER CP valves pave the way for a new generation of compressors.

Real increases in compressor efficiency can only be achieved through innovative, smaller designs – which place high demands on all their components.



When less is more: HOERBIGER CP valves

Fewer valves for fewer cylinders, with the same or higher performance:

Modern compact compressor designs save energy and money.

Conventional valves cannot support new compressor designs effectively.

HOERBIGER developed the CP valve with these requirements in mind.

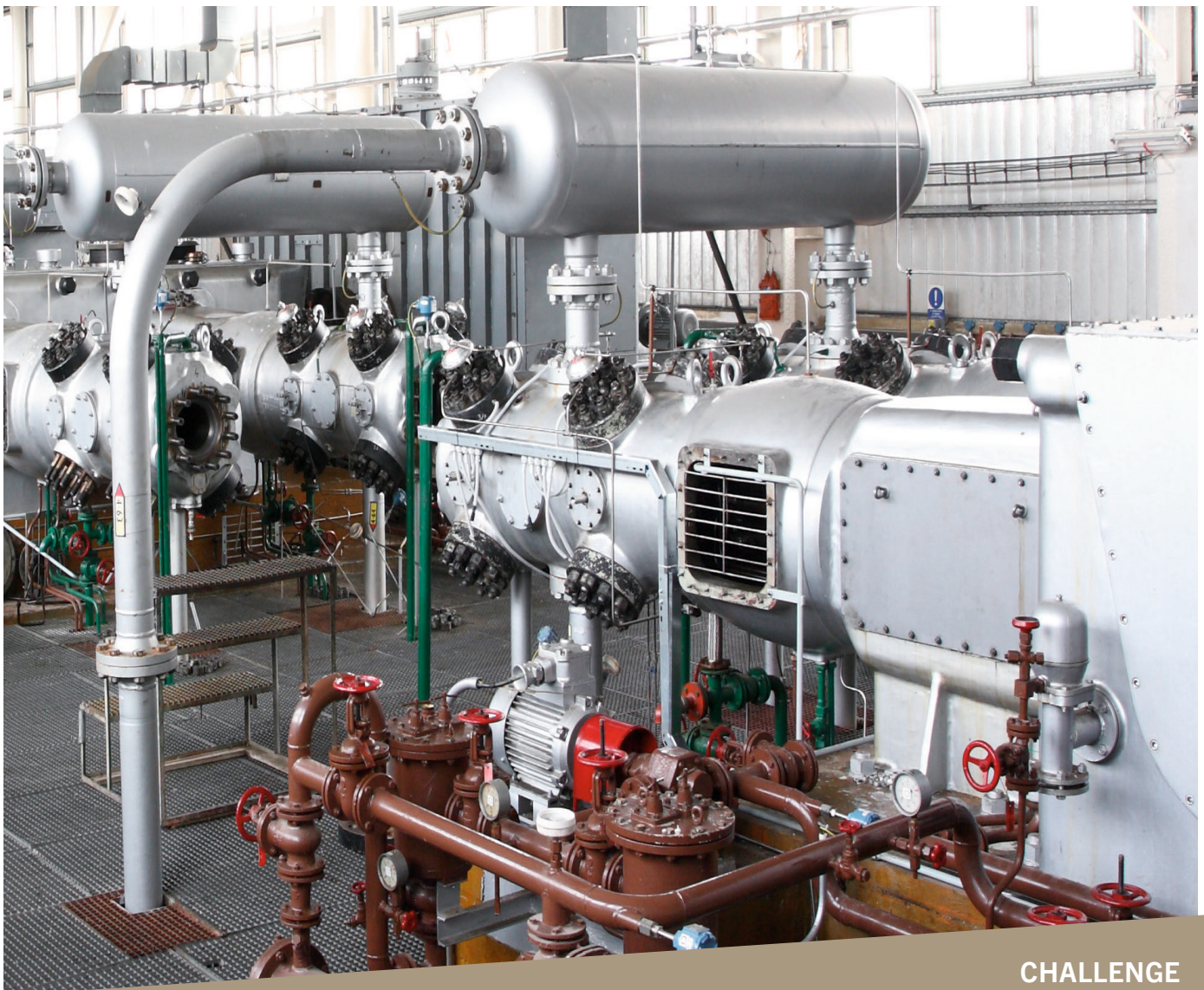
Valves must be reliable, to avoid losing the benefits of higher efficiency.

Profiled plate technology offers maximum efficiency, despite minimal lift, and excellent closing properties.

Additionally, HOERBIGER created PowerPEEK™, an innovative material that ensures robustness and durability – resulting in longer service life for valves and avoiding unplanned compressor downtime.

CP valves are a prerequisite for greater compressor efficiency and reliability.

Leading the market requires being a step ahead. An innovative compressor design puts you ahead of competitors. CP valves make leadership possible. This is why HOERBIGER is an innovation partner for innovative companies.



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CP valve at a glance:

A valve with high flexibility for demanding operating conditions in natural gas applications.



Highest reliability

- PowerPEEK™ offers six times the lifetime of an industry-standard PEEK
- Prevents downtime due to valve failure
- Integrated anti-rotating device and special springs designed for maximum dynamic reliability

Highest efficiency

- Reduced compressor footprint and improved package cost-effectiveness
- Highest savings in energy and operating costs
- Best valve efficiency to valve lift ratio

Cost-effective operation and easy maintenance

- Improved inventory management due to a high degree of standardization
- Runtime of up to 2 years without maintenance
- Lower investment costs due to higher throughput, lower footprint, and flexible installation

Technical data of the CP valve

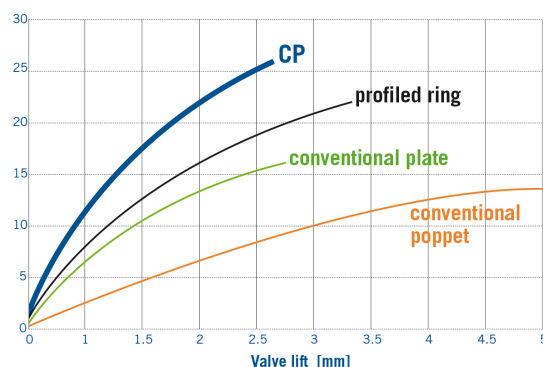
Compressor speed:	2000 rpm maximum
Capacity control:	On/Off
Lubrication:	Lube and non-lube
Maximum pressure:	300 bar
Pressure differential:	200 bar
Temperature range:	–50°C to 200°C
Valve type diameter:	88–212 mm

Your choice for demanding natural gas applications: A new HOERBIGER valve design and a new material drive outstanding performance.

A lower valve lift gives higher reliability and longer life. The CP valve breaks this paradigm by providing the same efficiency as conventional valves but at lower valve lift.

CP valves have the best ratio of valve efficiency to valve lift. Based on a conventional valve lift of 2.5 mm, CP Valves set the market benchmark for natural gas applications with a valve pocket area utilization of 25%.

Valve efficiency [%] utilization of valve pocket area

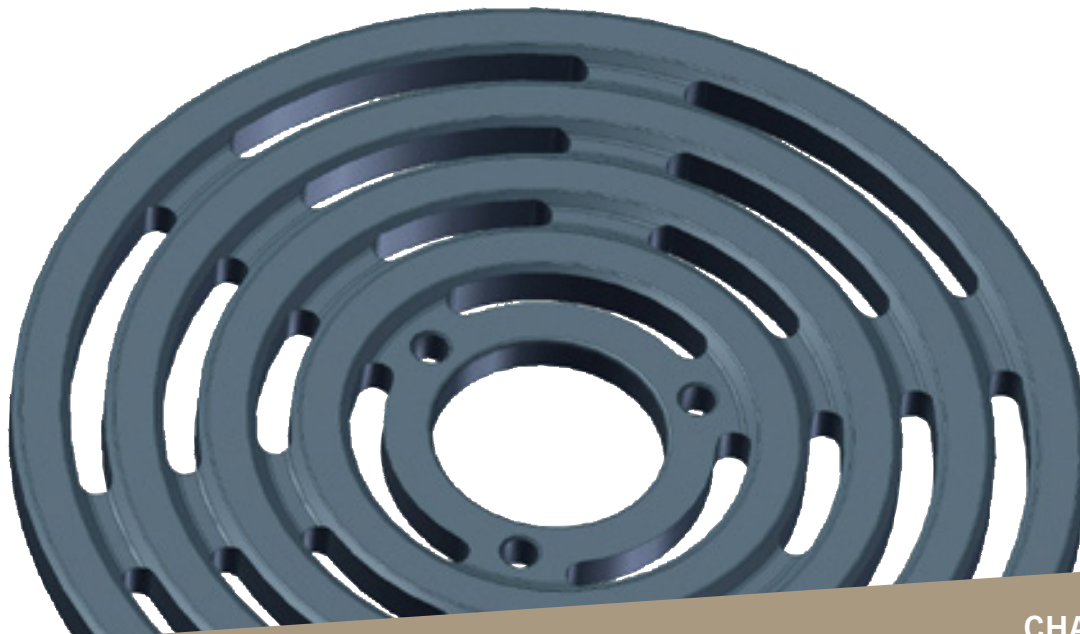
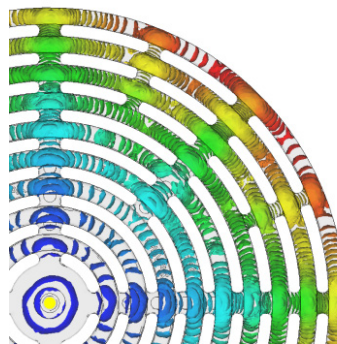


PowerPEEK™:

High-performance valve plate material means high reliability and extended service intervals

With the new design of the HOERBIGER CP valve, the combination of profiled seat and valve plate reduces flow losses and lowers energy consumption. PowerPEEK™ and the unique design of profiled valve plates create a valve with extremely high reliability, durability, efficiency and excellent flow characteristics. The construction of a finer-meshed ring section increases the effective flow area and hence the efficiency of the CP valve. The aerodynamic „rings“ produce a lower pressure drop than plate valves and thus have the ability to pass small amounts of liquid and debris.

Additionally PowerPEEK™ plates offer an optimized distribution of reinforcing fibers and therefore less wear less in operation.



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HOERBIGER is active throughout the world as a leading player in the fields of compression technology, drive technology and hydraulics. In 2017, its 7,300 employees achieved sales of 1.173 billion euros. The HOERBIGER brand is synonymous with components and services providing high customer value in compressors, industrial engines and turbines, automotive drivetrains, and multifaceted mechanical engineering applications. HOERBIGER industrial safety and explosion mitigation solutions save lives and equipment. We set standards.

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