

CE

Profiled Ring Valve

For your process gas applications

Quality proven in thousands of applications

The CE valve has been HOERBIGER's most popular ring valve for years. Positive experiences from a wide variety of uses attest to the performance of the CE valve in a broad field of applications. Thanks to its outstanding efficiency, the valve is suitable not only for hydrogen but also for heavy gases such as CO₂, carbon monoxide and ethylene.

The HOERBIGER CE valve is optimally suited for applications in the chemical and process industries, in refineries, and in the energy sector. Successful experience from a large number of field installations

proves the performance of the CE valve in a wide range of applications. The valve offers reliability and efficiency even under difficult conditions.

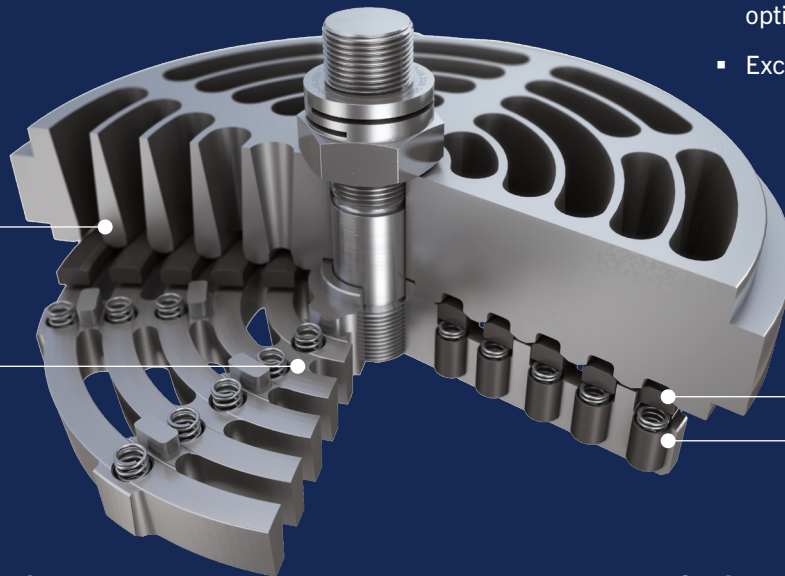
The long service life and high reliability of CE valves are the result of profiled ring / tapered seat arrangement, impact-resistant valve rings, unique anti-stiction design and the high-performance spring technology. This extends maintenance intervals, reduces the risk of premature wear and the associated downtime, and lowers energy consumption.

Profiled valve ring / seat

- Streamlined flow path optimizes the effective flow area
- High number of flow channels thanks to fine-meshed design
- Minimizes power consumption
- Aerodynamic flow path reduces buildup of particles and provides higher tolerance to liquids

Impact-resistant valve ring

- Carbon fiber re-inforced PEEK
- Narrow ring width decreases material stresses
- Fully guided rings for use in vertical compressor cylinders
- Profile on rings reduces adhesion forces and dynamic spring load
- 8 and 10mm heavy-duty rings optionally available
- Excellent chemical resistance



Anti-stiction design

- Convex profiled guard and tapered seat
- Reduces adhesion forces due to liquids
- Avoids delays in valve opening and closing
- Tolerance against over-lubrication or liquid carryover

Spring technology

- Heavy-duty ESR wire springs
- Design reduces coil-to-coil contact
- Spring savers prevent coil-to-guard contact

CE valves ensure highest reliability

The CE valve is highly durable, robust and efficient, and provides a proven industry solution that covers a wide range of applications.

Your benefits at a glance

Features	Advantages	Benefits
Profiled ring design	Above industry standard in efficiency: 20–40% higher effective flow area than conventional plate or poppet valves	Long life and high compressor uptime
High number of flow channels		
Spring savers prevent coil-to-guard contact	Tribological optimization	
Carbon fibre reinforced PEEK rings	High flexural strength and impact resistance	
Aerodynamic flow path	Reduces build up of particles and provides tolerance to liquids	Superior reliability
Fully guided rings	Suitable for vertical compressors	
8 and 10mm heavy-duty rings	Designed for high dynamic loads (optionally available)	
Anti-stiction design: Convex profiled guard and tapered seat	Reduces adhesion forces due to liquids Avoids delays in valve opening and closing Tolerance against over-lubrication or liquid carryover	
Heavy duty springs made of electro-slag remelting (ESR) steel	Designed for high dynamic loads	
The most efficient ring valve.	Replace wear parts less frequently	Reduce OPEX
Tribological optimization	Reduce main motor energy costs	



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more information!

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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