

# CS

## Plate Valve

The robust all-rounder for low-to medium-pressure applications

  
**HOERBIGER**

# Proven design with customized features

The CS valve is a plate-type valve for low- to medium-pressure applications. Thanks to its non-metallic valve plate made of impact-resistant polymer, the CS valve is a robust all-rounder for a wide range of applications, such as chemical, petrochemical, technical gases and hydrogen production from electrolyzers. The optionally available high-performance polymer material HP developed by HOERBIGER also enables the CS valve to be used in cryogenic applications such as LNG boil-off. Wide flow channels and conically milled seats and guards offer high tolerance against clogging. Tribological optimization for lubrication-free operation and hydrogen-compatible materials provide safe operation in H<sub>2</sub> compression systems.

Thanks to the simple but robust design with only one moving sealing element, CS valves ensure easy and cost-effective maintenance and high durability.

## Wide flow channels

- High tolerance against clogging
- Conically milled seats and guards streamline flow paths

## Material technology

- Tribologically optimized for non-lube operation
- Hydrogen-compatible materials

## Impact-resistant valve plate

- Excellent sealing at low pressures
- Fiber-reinforced PEEK for high chemical and temperature resistance
- Fiber-reinforced PA for less demanding applications
- HOERBIGER HP material for cryogenic applications (LNG boil-off)

## Simplicity

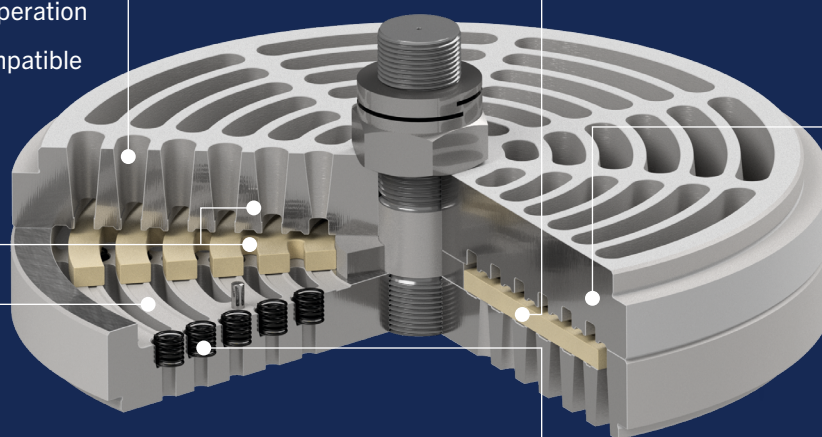
- Single moving sealing element
- Replaceable guide ring
- Easy and fast repair

## Anti-stiction design

- Profiled guard reduces adhesion forces due to liquids
- Avoids delays in valve closing
- Hanging and safety guard options

## Spring technology

- Robust coil springs designed for high dynamic loads in high-lift valve configurations



# CS valve ensures superior performance

The CS valve has proven its reliability and durability in more than a thousand process gas applications worldwide.

## Your benefits at a glance

Features	Advantages	Benefits
Fiber-reinforced polymer valve plate	Many times higher impact resistance than steel	
Tribologically optimized	Suitable for lube and non-lube compression	Long life and high compressor uptime
Wide flow channels	High tolerance against clogging	
Conically milled seats and guards		
Single moving sealing element		
Simple assembly	Easy and fast repair	Simple and cost-effective maintenance
Fully guided rings		
Valve seat/plate sealing lands optimized for low pressures	Minimized leakages	Increased throughput at low pressures
Robust coil springs	Designed for high dynamic loads in high-lift valve configurations	High reliability for reduced downtime
Anti-stiction design: profiled guard	Reduces adhesion forces due to liquids Avoids delays in valve closing	
Hydrogen-compatible material	Resistance to hydrogen embrittlement	Safe operation in H2 compression



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