

# CT valve: Supreme performance for high-speed compressors



# CT valve: the high-performance valve for high-speed compressors

Oil sticktion in compressor valves leads to valve failures especially at high speeds. The CT valve has been developed to minimize oil sticktion while providing maximum efficiency.

More than 350.000 CT valves are operating successfully in natural gas and process industry.

- A well-proven valve design, very successful for high-speed, short-stroke gas compressors
- The non-metallic valve plate and wafer spring dampens the opening impact and prevents oil sticktion
- Peripheral spring arrangement increases the valve life extremely by preventing valve plate tumbling and reducing closing impact
- Trouble-free suction valve control with HOERBIGER unloaders



The CT valve and its applications:

■ **Industries:**

**Natural gas**

- Gas transport
- Gas gathering
- Gas storage

**Process industry**

- Refineries
- Chemical industry
- Petrochemical industry

■ **Usage limits:**

**Compressor:**

- Max. speed: 1800 1/min RPM
- Lubrication: lube and non-lube

**Operating conditions:**

- Max. operating pressure: 350 bar (5075 psi)
- Max. differential pressure: 150 bar (2175 psi)
- Max. operating temperature: 250° C (482° F)

**Technical features:**

- Min. type diameter: 64 mm (2.52 inch)
- Max. type diameter: 221 mm (8.7 inch)
- Max. lift: 2,8 mm (0,11 inch)

**Control:** on/off and step-less

**The advantages of the CT valve:**

- ✓ Excellent flow efficiency for low power consumption
- ✓ Long life even in difficult and contaminated conditions
- ✓ Best suited for changing operating conditions
- ✓ Proven in lubricated and non-lubricated operation

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