

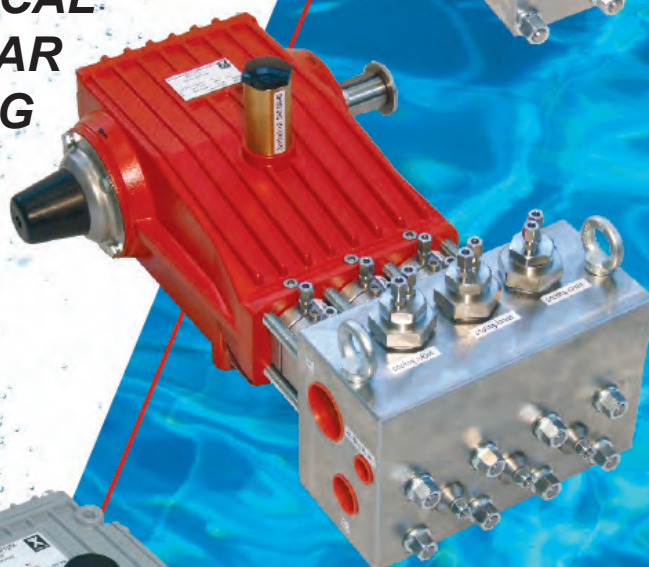


# CO<sub>2</sub> SOLID-LIQUID GASEOUS

**EVACUATE  
COMPRESS**

**SUPERCRITICAL  
UP TO 300 BAR  
CIRCULATING**

**FILLING**



We would be pleased to send you a non-binding offer

High Pressure Pumps - Systems - Accessories

**Speck-Triplex-Pumpen GmbH & Co KG**

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## POSSIBLE APPLICATIONS FOR CO<sub>2</sub>

Extraction processes, washing of textiles, cleaning of mechanical or electronic parts, dyeing and other processes require new, oilfree pumps and compressors which can compress, pump and circulate the CO<sub>2</sub> oil-free from gaseous to liquid supercritical up to 300 bar. Therefore, a pump compressor was designed that can handle gaseous as well as liquid CO<sub>2</sub> from >5 bar against the pressure in the vessel up to 80 bar with an efficiency equal to classical, oil-lubricated compressors and clearly superior to centrifugal pumps.

For being used in the food and pharma industry, stainless steel versions are available. We offer complete units with motor and accessory as well as bare-shaft pumps.

### APPLICATIONS

- Dry cleaning
- Extraction processes
- Oil production
- Bottle and container filling
- CO<sub>2</sub> blast cleaning
- Dry cleaning
- Parts cleaning
- Disinfestation
- Disinfection

In the supercritical range, a pump has been developed which can not only generate CO<sub>2</sub> up to 300 bar, but can also circulate in this pressure range (ie, inlet pressure as well as outlet pressure 300 bar of 0-51l/min).

This pump has a further novelty, a grease-lubricated, roller-bearing drive, which allows a control range of 0-100% and still operates oil-free. This pump has been developed for all processes in which CO<sub>2</sub> must be circulated under high pressure (Extraction, impregnation, etc.)

