

**Symposium** 

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## Motivation

Micro-PIV has extended its ability to measure the velocity of CO<sub>2</sub> at high pressures. The study performs the first kind of experiments with CO<sub>2</sub> fluid and silver-coated hollow glass microsphere PIV particles. The objectives of these experiments are to find the velocity distribution for the flow of  $CO_2$  through a channel.



REFERANCES

[1] DantecDynamics, 2019, "https://www.dantecdynamics.com/measurement-principles-of-piv." [2] Seika, 2019, "https://www.seika-di.com/en/measurement/principle\_of\_piv.htm."

## critical conditions inside the channel



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