Velocity decreases with distance.

Rapid data processing and parameter extraction.

Advanced feedback control drives actuator.

Fluids with different densities entering a pipe.

Streamlines of single phase flow.

1D sensor signal input.

Reduced order modelling.

2D/3D tomography sensor input.

Advanced feedback control drives actuator.

Industrial Process Control

How does an inline fluid separator work?

- Fluids with different densities entering a pipe
- High centrifugal forces with much higher gravitational acceleration separates the phases.
- Less density phases are extracted by a pick up tube

Objective: Substitute “static inline fluid separation system” with “dynamic tomography-controlled inline separation system” to cope with instabilities and flexible throughputs to reduce gas carry under and liquid carry over

References