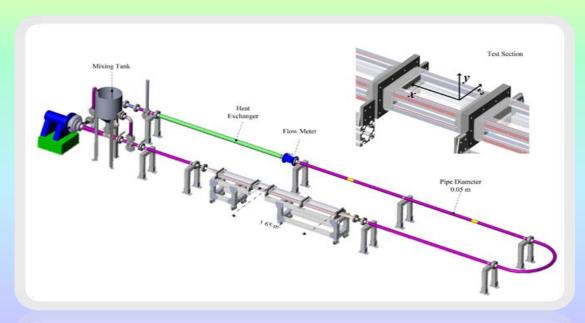


Testing Department

Large-scale flow loop for multiphase turbulent flow experiments





This slurry loop has been designed for experimental investigation of multiphase flows relevant to slurry transport in the petroleum industry. The loop is equipped with two mixing tanks, a heat exchanger, a Moyno pump (ideal for polymeric solutions), and a centrifugal pump (ideal for particle laden flow). Two fully transparent test sections exist; one with a circular cross section of 50 mm diameter and one with a 15x120 mm rectangular cross section.

CAPACITY

- Enables pressure/temperature measurement at multiple locations as needed
- Equipped with double-pipe heat exchanger
- Equipped with Coriolis flow meter
- The loop utilizes two data acquisition cards

SPECIAL FEATURES

- Enable to circulate dense slurries consisting with 30% sand
- The glass windows enables 2D and 3D PIV measurement
- Reaches maximum Reynolds number of 750,000 for water





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