

# Well Flow Management

## Fluids Sampling and Analysis

### Mini-Separator

A mini-separator is a portable tool for multiphase sampling of gas, oil/condensate and water directly from a flow line without need for prior separation.

The mini-separator is connected to a multiphase sampling point. The fluids are separated at the flowing pressure and temperature at the sampling point. Liquids are accumulated and gas vented to closed drain, or equivalent safe zone, until the required sample volumes has been obtained.

#### Applications examples:

- Obtain pressurised PVT quality hydrocarbon and water samples without (test-) separator
- Depressurise oil/condensate with no exposure of the sampling operator to released gas
- Field surveillance and allocation sampling (compositions and trace elements)
- Process optimisation and troubleshooting
- Identify fluid types and properties in process lines/stages
- Sample from individual wells and process lines upstream commingled flow
- Sampling for MPFM/WGM applications without test-separator

#### Features

- Separate gas, oil/condensate and water by gravitational separation
- Transfer of pressurised samples to certified transport cylinders
- Measurement of shrinkage factor of oil/condensate

#### Benefits

- Sample independently of test-separators
- Flexible tool with many applications tailored to client needs if required
- Potential for large cost savings (capex/opex)

ATEX heat traced and insulated mini-separator, thermostat controlled.  
Maximum operational P&T depends also on the design of the sampling point.

#### Specifications

Design P:	100-345 bar
Design T:	up to 110°C
Power requirements:	230vac / 50hz / 230W

