

High accuracy, typically better than 0.5%

Representative wet gas sample

Suitable for all DP devices

Can be "retro-fitted"

Simple and reliable

Automatic or manual system



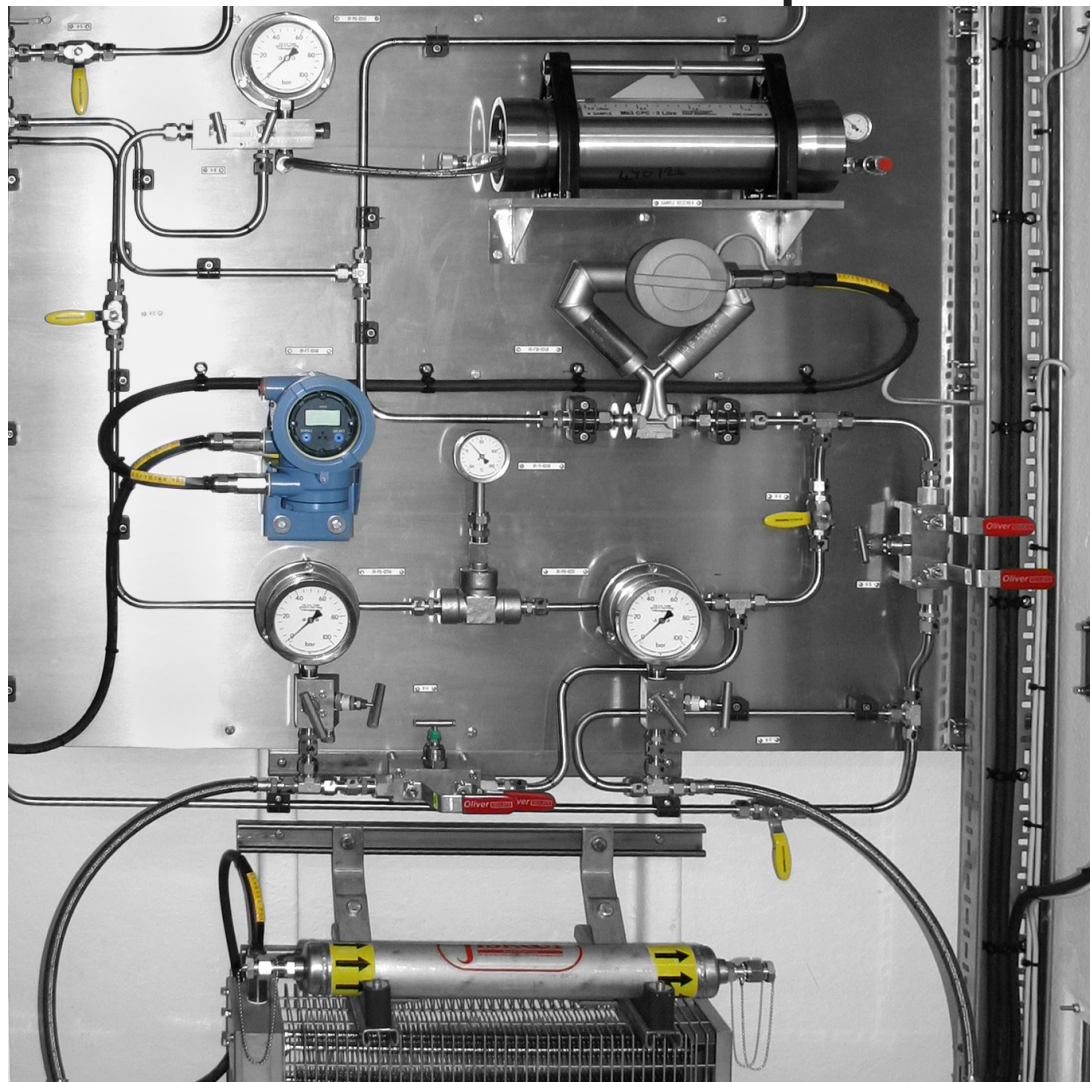
MassPhase

Wet Gas system

The Jiskoot MassPhase wet gas system has been designed to extract a representative sample of wet gas for reservoir management or measurement allocation.

The system is designed to extract a sample that can be used to compensate for errors in DP measurement, caused by the liquid in wet gas, using calculations like the Murdock and Chisholm equations.

The system also provides a gas sample for analysis and can be used for high accuracy, periodic well testing in wet gas and very high GVF multiphase flow. Manual and automatic versions of the system are available.

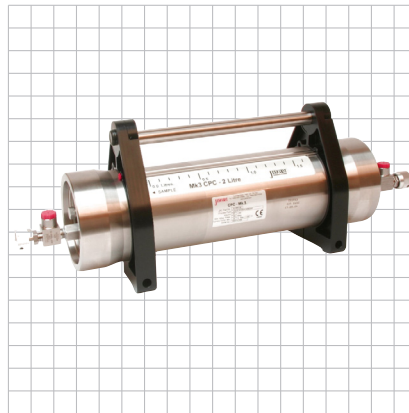


The patented Jiskoot wet gas sampling system comprises a take-off probe and a bypass loop in an enclosure, containing a mass flow meter and one or more molecular sieves and sample collection receivers.

The take-off probe is mounted in the line and has multiple inlet points to profile the pipeline. The number and size of the inlets are designed for each application dependant on the flow regimes present.

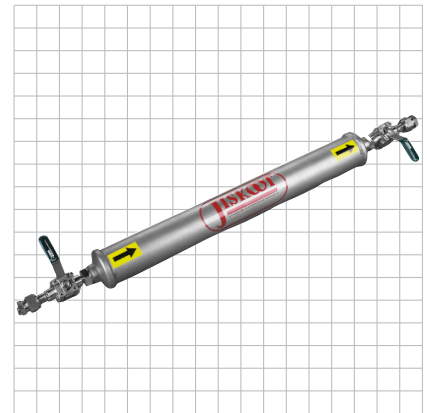
The flow loop is designed to maintain sample representivity without any phase change throughout the bypass loop and to have minimal dead volume.

Constant pressure receiver



The wet gas flows through a molecular sieve, which traps efficiently the liquids from the gas stream.

Mole sieve



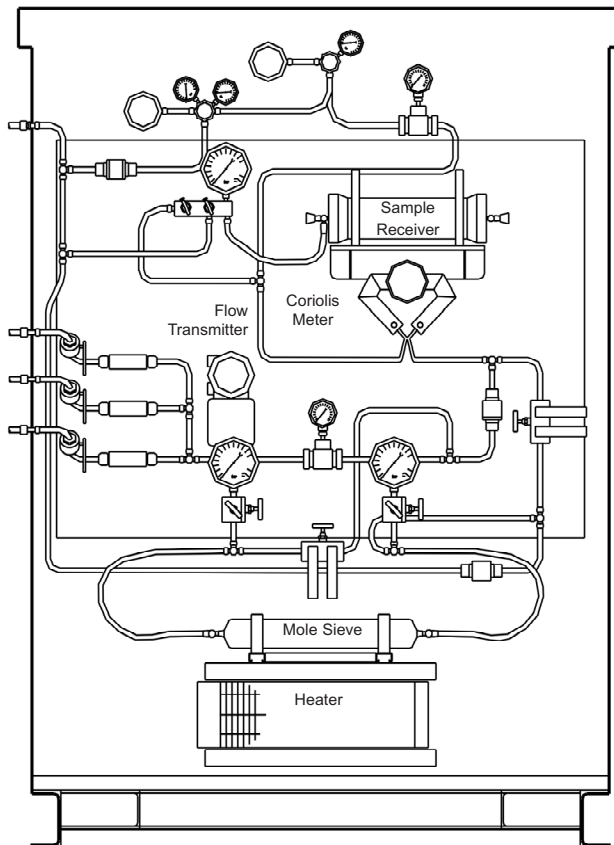
The liquid is retained in the sieve and the mass flow of dry gas is measured by the flow meter. A sample of dry gas is also taken for analysis.

At the end of the sampling process the increase in mass of the molecular sieves gives an accurate measurement of the mass of liquid removed for the gas.

The liquid mass is established by comparing the mass of liquids collected with the dry mass of the gas from which it was extracted. This ratio can be used in a variety of equations to directly compensate the wet gas measurement totals.

Once removed from the system the sample of dry gas can be analysed in the laboratory. The liquid trapped in the molecular sieve can be removed using a laboratory sample extraction method and the liquid samples analysed.

The Jiskoot MassPhase sampling offers a more accurate and cost effective alternative to spot sampling dye tracer techniques and online devices.



UK
Jiskoot Quality Systems

Tel: +44 (0)1892 518000
Fax: +44 (0)1892 518100
Email: sales@jiskoot.com

USA
Jiskoot Quality Systems

Tel: +1 281 583 0583
Fax: +1 281 583 0587
E-mail: sales@usa.jiskoot.com

Cameron
Measurement Systems

Tel: +1 281 582 9500
Fax: +1 281 582 9599
E-mail: ms-marketing@c-a-m.com

Jiskoot Quality Systems
A Cameron Company
www.jiskoot.com

