



Liquid and gas hydrocarbon sampling > Teach Me

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Sampling standards

What international standards govern sampling system selection, design, installation and operation?

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Design issues

What are the most important steps to consider when designing or specifying a sampling system?

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Pipeline mixing (homogenisation)

Why do the standards demand that pipeline contents must be homogenous?

[click here to find out](#)

Which mixer is best?

How can you decide which type of mixing system is best suited to your application?

[click here to find out](#)

Sampling systems - the options

What is the accuracy of different sampling systems and which is best for your application?

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What is a representative sample?

How do you know if I have a representative sampler?

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Sample receivers

Which type of sample receivers should you use?

[click here to find out](#)

Sampler control systems

What type of control system is recommended by the standards?

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Sampler performance factors

How can you guarantee that a sampling system performs as specified?

[click here to find out](#)

Line-fill sampling

How can you sample the line-fill between the sampler and custody transfer point?

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Sampling system proving

How can you guarantee, prove and certify that a sampling system complies with the standards?

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How can you guarantee, prove and certify that a sampling system complies with the standards?

A sampling system needs proving once installed. Only then can you certify that a system performs as specified. The only way to prove beyond doubt that an installed sampling system complies with the standards is to prove the system by water injection. The procedure is defined in the standards.

The vendor or purchaser can prove the system, and this process can be witnessed and certified by one of the inspection/certification companies.

When designing or specifying a sampling system a key point of consideration would be to ensure that the system performance will be guaranteed if the system is proved by water injection in accordance with the standards.

Once a system has been proved by water injection it is only necessary to re-prove the system if either the fluid properties or the process conditions change provided the system is regularly serviced and the performance monitoring system is functioning correctly.

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