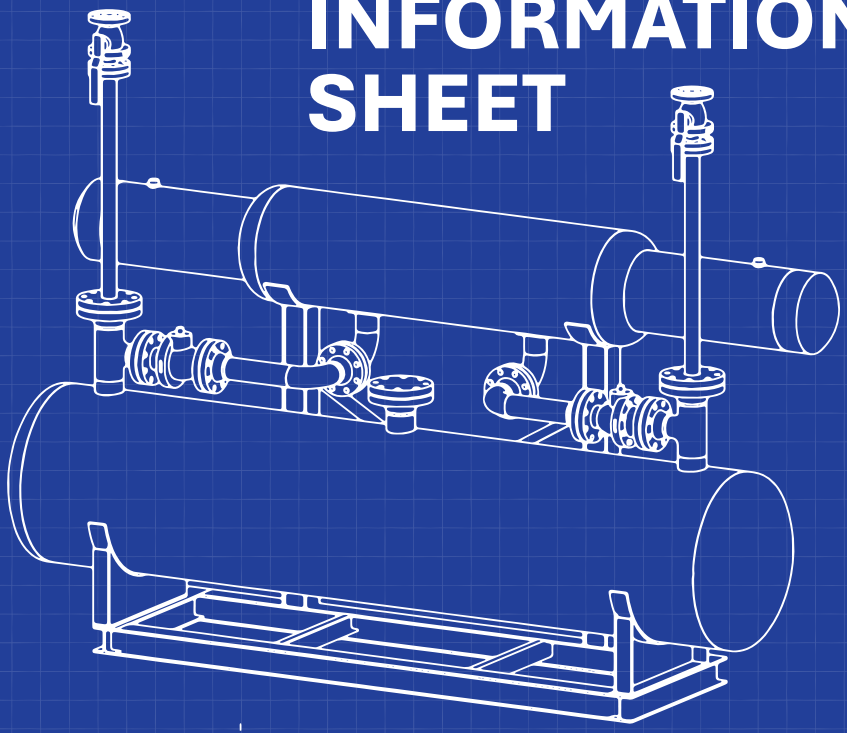
Innopipe

TECHNICAL INFORMATION SHEET



HOW IT WORKS

At transmission velocities, liquids travel as a film along the pipe wall (annular flow) while gas moves through the centre. Conventional separators, built for liquid pooling at the bottom of the pipeline, miss the annular liquid entirely.

Innopipe technology, with an inline chamber, intercepts the liquid film through slotted openings and diverts liquids into a collection reservoir while the primary gas flow continues downstream undisturbed. No mist extractor is required.

WHY IT WORKS – THE RESULTS

Typical results include:

- 99+% liquid removal efficiency
- < 1 psi typical pressure drop across the unit
- Success in buried and above ground applications
- Field proven technology since 1996

PRODUCT OVERVIEW

The Innopipe inline gas separator and piggable drip technology is engineered to remove liquids known to cause corrosion, slugging, pressure loss, downtime and production losses.

THE CHALLENGE

Liquids in a gas pipeline create irregular flow patterns. Condensates and chemicals travelling with the gas drive corrosion, black powder formation, slugging, meter error and compressor risk. Innopipe reduces pigging frequency and lowers corrosion and gas treatment chemical costs.

THE SOLUTION

Invented in 1996 to solve gas cavern liquids issues, bi-directional Innopipe technology solves these problems. Thirty years later with installations around the world, the Innopipe inline gas separator is the standard to turn to for liquids removal.

APPLICATIONS

1. **Wellhead**
   For separation as a test or group separator.
2. **Distribution lines**
   Supports custody transfer accuracy and liquid removal at city gates, regulator stations, feeder lines, and compressor inlets.
3. **Transmission lines**
   For mainlines, feeder and storage systems.
4. **Processing plants**
   At the plant inlet, process equipment protection and treating chemical recovery.
5. **Offshore**
   Compact and lightweight, where space and weight are critical.
6. **Gathering system**
   In gas systems carrying unprocessed gas.

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INNOPIPE COMPARISON – CONVENTIONAL SEPARATORS

	CONVENTIONAL	INNOPIPE
Separation principle	Gravity & retention time	Targets annular liquid and works in stratified flow
Footprint	Larger vessel	Compact inline
Pressure drop	Higher	Negligible
Capital cost	Higher	Low
Piggability	Bypass/shutdown needed	Piggable, no bypass
Installation options	Above-ground typically	Above and below ground and vault
Mist extraction	Often required	Not required

AT A GLANCE

- Pipe sizes ranging from 1” to 60”, any pressure
- Weld in-line or flanged
- Separation efficiency of 99%+
- Pressure drop negligible with piggable units typically < 1 psi
- Piggable and non-piggable configurations
- Above and below ground, or vault installations
- Suited for any gas stream, built to match any pipeline specification
- Designed and fabricated to applicable ASME, CSA and ISO requirements

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Engineered for Performance

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