

PRE-CONDITIONING ACCESSORIES



DEMISTER



LRP



**LRP with
REGULATOR**

EFFECTIVE, MAINTENANCE-FREE PROTECTION FOR YOUR GAS ANALYZER

Protecting your Gas Analyzers from harsh pipeline contaminants is essential for a reliable, accurate, maintenance free installation.

Pipeline gas contains varying levels of hot compressor oil vapor, glycol and water vapors that can condense within critical Gas Analyzers, causing errors or failure. Most competitive solutions require constant maintenance and draining drip pots, coalescing filters or bypassing significant amounts of gas to drain contaminants.

Intermittent slugs of liquid getting pushed through the pipeline also result expensive Analyzer repairs. AMI's **DEMISTER** and **LRP** combo solves these issues, for maintenance free reliability.

DEMISTER

The **DEMISTER** is a compact, vertically mounted device that attaches directly to the pipeline. As the hot sample gas passes through the **DEMISTER**, it is rapidly cooled, causing the compressor oil, glycol, and water vapors to condense, coalesce and drain back into the pipeline. This high level of protection for your Analyzers is achieved without the need for power, venting/bypassing gas or periodic maintenance.

LRP

The **LRP** is designed to prevent liquid slugs from ever reaching your analyzer during a routine pigging operation or upset conditions. The **LRP** contains a unique membrane and stainless steel disk combination that block liquids and particulates from passing, allowing only gasses to reach your Analyzer. When liquid slugs occur the **LRP** automatically shuts off gas until it passes. Once the liquid slug clears, liquid drains back into the pipeline and the **LRP** resumes gas flow to the Analyzer.

LRP with REGULATOR

The **LRP** is available with a direct coupled NeSSI-compliant regulator. When the pipeline pressure exceeds the inlet pressure rating of the Analyzer, the regulator can be adjusted to bring the sample pressure down to 0-25 psig (0-1.7 bar). This option provides all the same benefits of the **LRP** in higher pressure applications.

KEY BENEFITS

- EXTENDS ANALYZER LIFE
- DRAINS CONTAMINANTS IN THE GAS
- MINIMIZES YOUR MAINTENANCE COSTS

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DEMISTER SPECIFICATIONS



DIMENSIONS	3.0" Diameter x 12.0" Height (8 cm x 30 cm)
INLET/OUTLET CONNECTIONS	½" MPT
MATERIAL	Carbon Steel
MAXIMUM PRESSURE	1500 psig (103 bar) at 190°F (88°C)



The LRP and Demister are commonly installed as one system.

LRP SPECIFICATIONS



DIMENSIONS	3.0" Diameter x 2.8" Height (8 cm x 7 cm)
CONNECTIONS	Inlet Port: ½" FPT Output Port: ¼" compression fittings (6.4 mm)
MAXIMUM PRESSURE	1500 psig (103 bar)
MAXIMUM FLOW RATE	5 SCFH



LRP with REGULATOR SPECIFICATIONS

DIMENSIONS	3.0" Diameter x 5.3" Height (8 cm x 14 cm)
CONNECTIONS	Inlet Port: ½" FPT Output Port: ¼" compression fittings (6.4 mm)
MAXIMUM INLET PRESSURE	1500 psig (103 bar)
OUTLET PRESSURE	0 – 25 psig (0 – 1.7 bar)
MAXIMUM FLOW RATE	5 SCFH

Designed for applications with pipeline pressure > 1500 psig (10.3 bar).

IMPORTANT

The Supply Pressure Effect (SPE) will be observed when this configuration is used. At the maximum inlet pressure of 1500 psig, the outlet pressure will be 25 psig. **However, at an inlet pressure <1500 psig, the outlet pressure will > 25 psig.** The SPE states that **for every 100 psig decrease in inlet pressure, the outlet pressure will increase 1.40 psig.**

TYPICAL INSTALLATION



LRP

DEMISTER

The LRP and Demister should be installed in the sample line upstream of the Analyzer. Both should always be installed vertically.