

STEAM AND WATER ANALYSIS SYSTEM



**PRESSURE REDUCER-
LUPR SERIES**



PRESSURE REDUCER- LUPR SERIES

The LUPR Series Pressure Reducer is designed for precision pressure control of sample liquids in high pressure applications. The LECOL's unique patented of pressure reducer designed follow the ASME PTC 19.11 standard to use Rod-In-Tube type and On-line flush which achieve the cleanable in-place function in ASME PTC 19.11 standard. With handwheel for manual pressure / flow adjustments accuracy when changing process conditions occur. The internal design of the LUPR Pressure Reducer helps lower flow velocity thus greatly decreasing flashing of liquids and erosion of the valve seat.

For added versatility, an optional control transmitter can also be specified to automate pressure reduction.

Features

- The latest version of LECOL pressure reducer
- US patent special rod-in-tube design
- More efficient, durable and economical pressure control
- On-line flush (Cleanable in-place) by fully open valve position
- Panel mounting bracket for easy installation and maintenance
- Special knob design for easy operation and fine flow control
- No valve or regulator erosion or wire drawing



On-line Internal Flush

Corrosion, scale, and other debris often accumulate in sample lines, making the plugging of pressure reducers inevitable. The LUPR Series addresses this challenge with its innovative design, allowing it to be turned to a fully open position for an 'Internal Flush.' This feature enables thorough flushing of the sample line without interrupting the entire process or requiring the removal of any equipment, ensuring seamless and efficient cleaning in place.

Auto pressure reducer

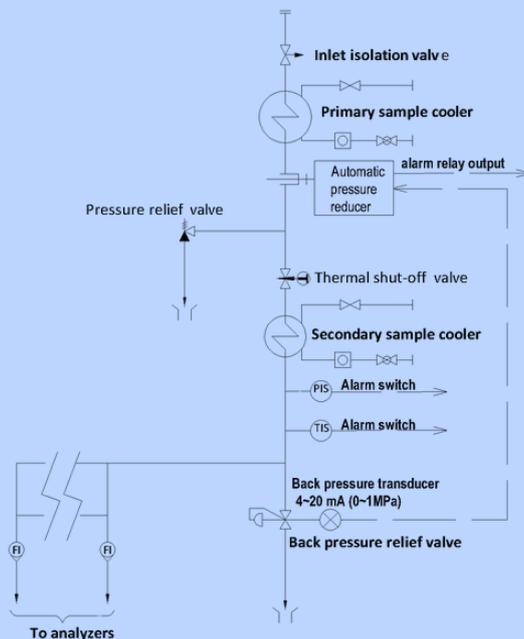
The increasing share of renewable energy sources, such as solar power, places significant operational demands on modern gas-fired power plants. These plants must cycle daily to bridge the gap between intermittent renewable generation and base-load power, ensuring stable and reliable electricity supply.

Typically, gas-fired plants use gas turbines (approximately 70% of output) and steam turbines (around 30%). During start-up, operators must manually adjust pressure reducers on site—a time-consuming, labour-intensive task.

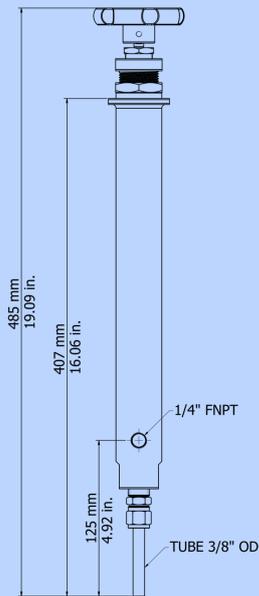
For automated pressure control, the LUPR Control Transmitter can be specified. It uses a pressure transducer installed at the back pressure relief valve (LUBP Series) to detect pressure changes and transmit signals to the transmitter. The built-in motor then adjusts the valve position automatically to maintain sample pressure within a precise 1.2 barg (20 psig) range.

The controller's keypad and display provide clear visual indication of valve position, with the ability to switch between automatic and manual control modes. No other pressure control device offers the operational flexibility of the LUPR Control Transmitter for critical applications.

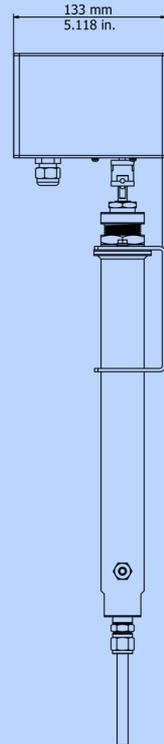
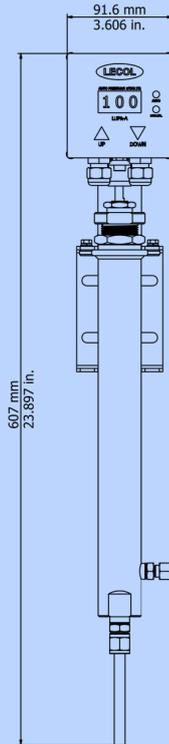
P&ID diagram



Dimensions



With auto control transmitter



Specification

Pressure Reducer- LUPR series	
Maximum Operating Pressure	: 350 Barg
Maximum Operating Temperature	: 120 °C
Body & wetted material	: 316 Stainless Steel
Process Connection	: Inlet : 3/8" OD Tube Connection Outlet : 1/4" OD Tube Connection
Option Accessory	
Auto Control Transmitter	
Power	: 110/220 VAC, 50/60 Hz
Mounting	: Panel mounting
Ambient temperature	: -10~60 °C
Power output for transmitter	: 12 VDC, loop power
Signal input	: 4~20 mA
Display	: 3 digits LED display
Pressure Transducer	
Material	: stainless steel
Connection	: 1/4" NPT
Pressure range	: 0-1 MPa
Maximum pressure	: 1.5 MPa

Ordering information

Pressure Reducer	(OPTION ACCESSORY)	
MODEL:LUPR	-V	-P
Auto control transmitter		
Pressure transducer		



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