



# Oil & Gas Wells and Pipelines

Sensors for Natural Gas Supply & Petrochemical Industry



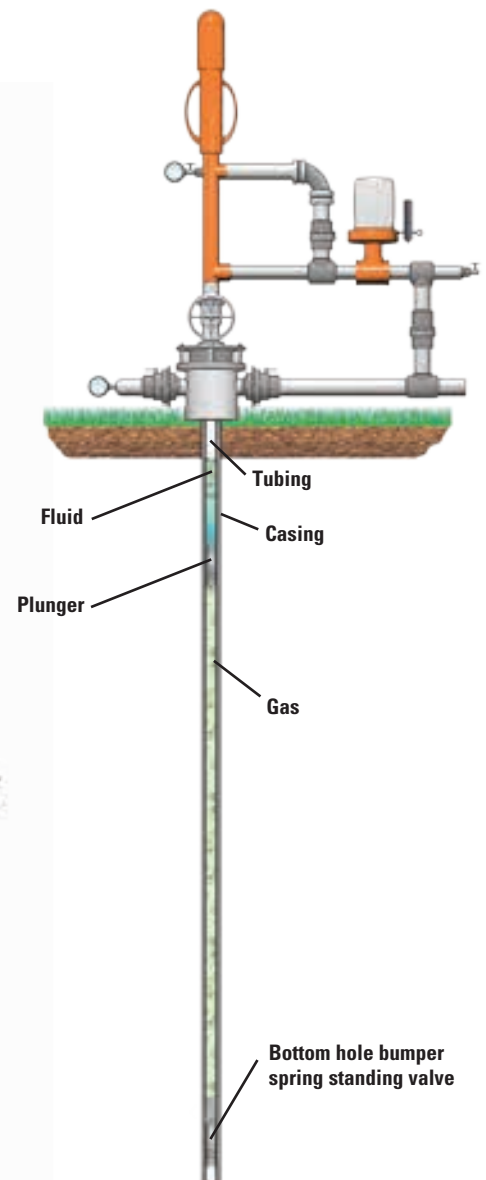
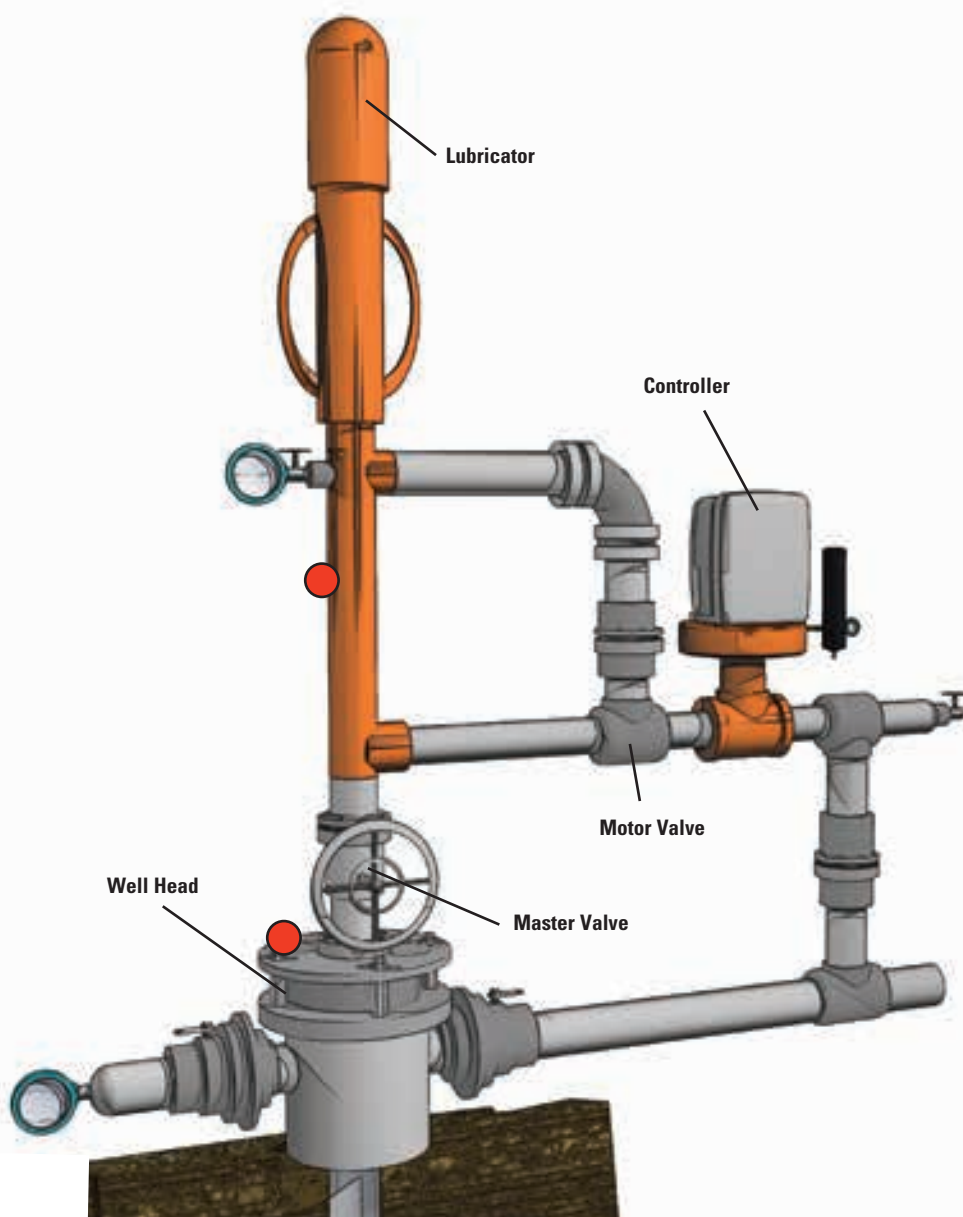
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Energy & Power Generation

# Oil & Gas Wells and Pipelines

Sensors that offer hazardous area approvals are widely used on gas and oil well heads, supply lines, natural gas power engines, multi-stage gas compressors and other machinery operating in hazardous environments. Piezoelectric pressure sensors offer the capability to detect and monitor dynamic pressure spikes, pulsations and surges in gaseous or liquid media. Engine pressure sensors offer walk-around or permanent monitoring capability, allowing engine balancing and emissions control. Vibration monitoring has proven effective for determining machinery health, planning maintenance intervals, reducing downtime and avoiding catastrophic loss.



 **Suggested Sensor Placement**



**Sensors for Motors & Pumps - Energy & Power Generation**



**4-20 mA Vibration Transmitter Series EX640**

- Available in velocity or acceleration output
- ATEX / CSA approved with explosion proof conduit
- Top exit, 2-pole terminal block



See page 112 for more information



**Low Cost ICP® Accelerometer Series 607**

- Unique 360° Swivel Design
- Allows for easy cable orientation
- Integral or Armored Integral Cable options available



See page 80 for more information

**Sensors for Well Heads - Energy**



**ICP® Pressure Sensor Model 121A44**

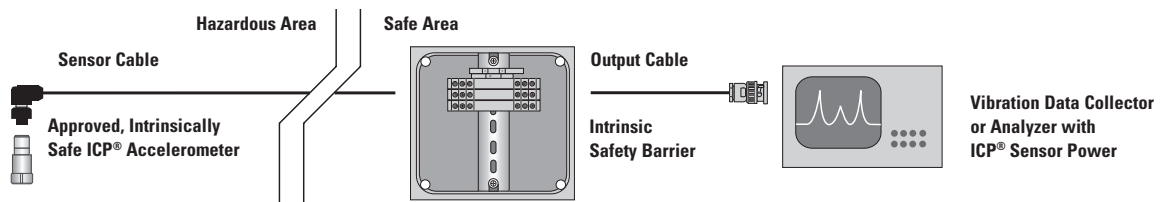
- Sensitivity: 14.5 mV/kPa
- Measurement range: 345 kPa
- 316 stainless steel diaphragm
- 1/4" NPT fitting



See page 130 for more information

**Tips From Techs**

**Typical Intrinsically Safe Installation**



Hochwertige Messtechnik und Beratung aus einer Hand



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