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Liquid Filled Pressure Gauges for Oil and Gas Applications

San Luis Obispo, California, USA – Within the oil and gas industry, high quality, reliable [pressure gauges](#) are essential in production and refining processes. They are crucial to maximizing quality and assuring the safety of both equipment and personnel. Pressure gauges must be able to withstand harsh environmental conditions and process materials while still maintaining their accuracy and reliability. Also, some gauges are mounted on high vibration or pulsating equipment, which, if not selected appropriately, can cause the internal parts to wear out and dramatically shorten the life of the gauge.

AMETEK STC has several oil and gas gauge solutions available for quick delivery in its U.S. Gauge models of [liquid filled gauges](#). Liquid filling of a pressure gauge protects the internals of the gauge from vibration and pulsation that are encountered when the gauge is mounted on pumps, compressors, or machine tools. In addition to protecting against this movement, the liquid fill makes the gauge easier to read because it dampens the pointer action and provides lubrication, extending the life of the pressure gauges.

The wetted parts of the [Models 1550 and 1553](#) pressure gauges are 316 stainless steel, allowing them to be used with many harsh chemicals without the risk of damage to the gauge. U.S. Gauge also offers a full line of diaphragm seals for the most caustic applications. The gauge case is made from 304 stainless steel and features a crimped-on window as well as a liquid fill plug at the top of the gauge for easy filling. Standard accuracy is $\pm 3-2-3$ % of Full Scale for the 2-1/2", and 4" gauges accuracy is ± 1 % of full scale. The pressure gauge Models 1550 and 1553 come in 2 1/2" or 4" sizes. Pressure ranges include vacuum only gauges, compound gauges to 300 psi, and pressure ranges from 0 to 15,000 psi are available.

The Model 656 also features 316 stainless steel wetted parts, and are available in low, center back, and low back mounting options. The two accuracy options are 1.6 % of FS for 2-1/2" gauge and 1.0% of FS for 4" and 6" gauges. Pressure ranges are available from 30" Hg. through 23,000 psi, as well as vacuum and compound ranges.

All liquid filled gauges from U.S. Gauge are in stock and available for quick delivery on their webstore: usgauge.com. The webstore includes easy-to-use part builders, tables, and comparison pages to help users make an informed decision in minutes. Having U.S. Gauge fill the gauges prior to shipping allows you to use the gauge right out of the box. A variety of full fluids are available, including glycerin, mineral oil, and silicon oil.

U.S. Gauge is one of the world's leading suppliers of high quality, competitively priced pressure gauges, diaphragm seals, temperature gauges, and thermowell fittings. Founded in 1904, U.S. Gauge's product line includes a wide range of pressure gauges, from vacuum to 23,000 psi, in single or dual scale dials. Gauge sizes range from 1.5" to 6", with brass, 316 stainless steel, or Monel internals.

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