

API-Cecomp Group *n'fo*

Technical & Application Note C158

Application: Monitor elasticity and leak test
Type Of company: Manufacturer of edible collagen casings
Location: New Jersey

Problem: The company is a manufacturer of edible casings using collagen. The importance of collagen is that it is a biopolymer that is a natural material which is readily assimilated by the human body. During the manufacturing process the 30 foot links of casing must be inflated to 1.5 psi and submerged in a water bath. This tests the casing for both elasticity and leakage. The customer is currently using an analog gauge to monitor the air pressure of the inflated casing but the accuracy and reliability needs to be improved. They also want an easy to read visual indication of the pressure.

Note: for additional information on this process see <http://en.wikipedia.org/wiki/Collagen>

Solution: The customer purchased a 5 psig battery powered gauge (DPG1000B) to monitor the pressure test.



DPG1000B

Battery Powered Digital Pressure Gauge



Benefits of API's solution:

±0.25% Test Gauge Accuracy
Long Battery Life (up to 2500 Hours)
0.5" digit height on Display for ease of reading

Cecomp Unique Feature



Cecomp Battery powered Gauges have an accuracy of $\pm 0.25\%$ of full scale (± 1 least significant digit). Cecomp uses the "terminal-point" specifications method during our gauge calibration instead of "best-fit straight line" specifications. This type of calibration procedure is more stringent and means that the zero pressure point and the 100 percent pressure point are "terminals" (sometimes referred to as end points) to which the actual performance of the transducer is fixed.

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