

Tire Pressure

PROBLEM

Mechanical gauges are traditionally used for tire pressure. Two critical applications are aircraft tires and auto racing tires. A major airline was spending thousands of dollars per year replacing mechanical gauges and doing frequent calibration checks. The mechanical gauges were easily damaged when dropped leading to inaccurate readings and high maintenance costs.

Stock car racing teams need a rugged, reliable, and accurate tire gauge that gives superior performance to mechanical gauges and low quality digital gauges. Repeatability and resolution are crucial to accurately setting tire pressure.

SOLUTION

The Cecomp DPG1000B provides excellent reliability and easy readability. Cecomp gauges stand up to constant use by line mechanics for checking aircraft tire pressure. The gauges prove so reliable they are put on an 18 month calibration cycle. As an added benefit, the improved reliability and accuracy increase aircraft tire life by 5% saving the airline additional operating costs.

For auto racing applications the Cecomp DPG1000B100PSIG provides excellent reliability plus readability to 0.1 psi. The gauges easily stand up to a full season of use without requiring service.



Turbine Engine Testing

PROBLEM

Gauges with high accuracy and resolution are required for testing turbine engine gearcase pressures. The transfer and fan gearcases can be under vacuum or pressure, so a compound range is needed. The accessory gearcase requires a range up to 100 inH₂O.

SOLUTION

The DPG1000B30INHGV100PSIG-5-MC and DPG1000B140INH2O-5-MC provides excellent reliability and easy readability for the test procedures. In order to provide better resistance to synthetic turbine oils, Cecomp developed a special all-metal case (option MC) for this application.



Wine Bottle Headspace Pressure

PROBLEM

The headspace pressure inside wine bottles needs to be tested for quality control purposes. A reliable gauge with good accuracy and readability is required. Since it is possible for the bottle to be under vacuum or pressure, a compound gauge is required.

SOLUTION

The Cecomp DPG1000B±15PSIG-5 is recommended. The -14.7 psi to 15.0 psig range will cover normal headspace pressure ranges of approximately -3 psi (vacuum) to 3 psi pressure, with zero being ideal. A hollow needle is fitted to the gauge by the winery for testing purposes.

If sparkling wines (at approximately 45 psig) or Champagnes (at 80 to 90 psi) are being tested, a DPG1000B30INHGV100PSIG-5 can be specified. This model will cover all normal vacuum/pressure ranges.



Image © Ste. Michelle Wine Estates

Many Other Applications!

- Air pressure regulator production
- Aircraft emergency slide testing
- Calibration of mechanical gauges
- Commercial pressure cooker
- Dairy milking system vacuum
- Hydraulic pressure alarm
- Leakdown testing
- Machine oil pressure
- Municipal water system pressure
- Natural gas pipeline pressure
- Plant air pressure
- Plant vacuum pump monitoring
- Pressurized bottle filling line
- Rail car air brake pressure
- Refrigeration systems
- Soil compressibility tester
- Sports equipment inflation
- Spring tester
- Steam pressure
- Tank level remote monitoring
- Turbine engine testing
- Vacuum leak testing
- Vacuum sealing food products
- Water tank level



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Cecomp maintains a constant effort to upgrade and improve its products. Specifications are subject to change without notice. Consult factory for your specific requirements.