

## Reduced Mass Rotor Spinning Rotor Vacuum Gage

### **Disclosure Number**

201102688

### **Technology Summary**

The improved spinning rotor vacuum gage consists of a reduction of the mass (and thus momentum) of the sphere which comprises the "rotor" of the Spinning Rotor Gage. In its current form, the method of reducing the mass of the rotor is to use a hollow stainless-steel, magnetic sphere. By reducing the mass (momentum) of the sphere, the momentum of adsorbing/desorbing gas molecules will result in a higher deceleration rate of the sphere and an increased sensitivity of the gage to lower gas pressures.

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