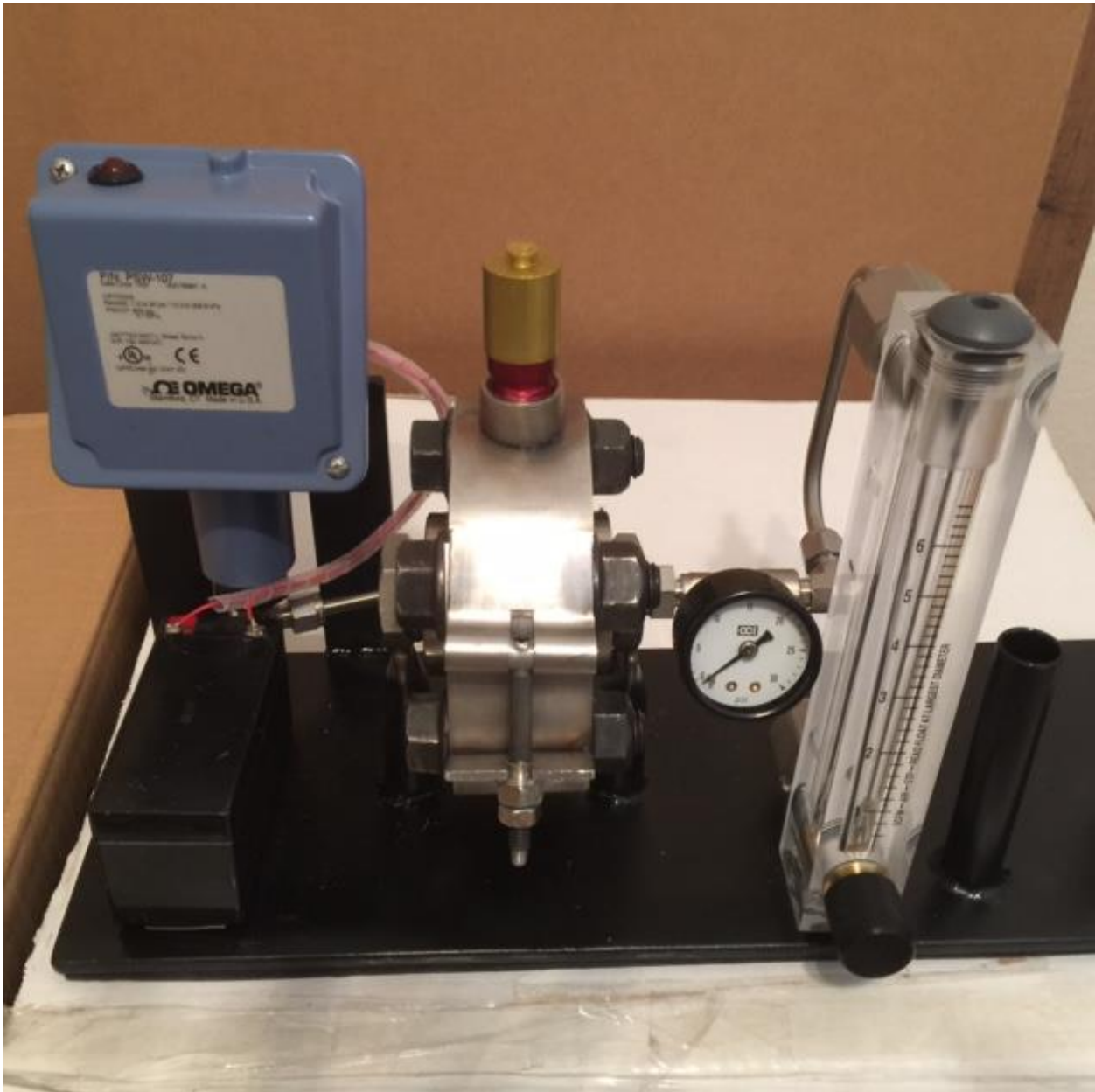


## Gas Turbine Specialty Parts LLC (pat. pend.) Leak Detection System



Using process air, the gold flag cap is forced off the red flag body at approximately 2-3 scfm and 9 psi allowing for complete unobstructed flow. The gas detectors are not equipped to sense a 3 scfm leak but the flag body would be visible after a shutdown and inspection of the turbine compartment. In addition, there could be air leak(s) that are not monitored which can also be detected. Air leaks could affect unit operating efficiency. Note that an approximate 150 scfm fuel leak would be equal to 10 LEL on gas detectors in a 7FA turbine compartment. A gas leak of this magnitude would either cause a unit trip or force an operator to trip the unit.

The option for a pressure switch was set for 5 psi and would be used in a remote application such as a gas yard etc. The light on top could be set up to be seen by a control room operator. Consequently, your fellow employees should never enter an operating turbine compartment in the event of a gas or air leak. Shut down the turbine, shut off the fuel, and cardox or halon fire suppression system and then enter to check for leaks. Remember, SAFETY FIRST!