

OPERATING INSTRUCTIONS FOR 8715 MCLEOD GAUGE

INSTALLATION

All glass must be clean and dry before assembly.

Connect the top of the gauge to the point in the system where the pressure is to be measured. Use line with an inside diameter of 3/8" or larger, and a length of four feet or less, if possible.

If condensable vapors are anticipated in the working volume, insert a cold trap in the line to prevent them from entering the gauge and vapor pump. The trap will also isolate the working volume from mercury vapor.

When an oil vapor pump is used instead of mercury, a charcoal trap should be inserted between the pump and the rest of the system.

OPERATION

To read system pressure P_1 , open flask stopcock. The admitted air will force the mercury up into the gauge. When the mercury level in the outer capillary reaches the zero line on the scale, close the stopcock enough to stop mercury flow but not enough to connect to the auxiliary pump line. The scale will show the pressure P in mm Hg as indicated by the mercury level in the closed capillary.

