

MODEL 775-1 DIFFERENTIAL PRESSURE GAUGE

Plant I.D. No. 001-968

Supersedes: NEW

The 775-1 gauge kit contains two gauges. One gauge reads 0-135 inches of water, and the other reads 0-100 feet of water. Both gauges are connected in parallel. The inches of water gauge will read it's maximum reading as the feet of water gauge reads 12 feet of water. The inches of water gauge will not be damaged as the pressure rises above 12 feet. Air is automatically purged from these gauges.

OPERATING INSTRUCTIONS

Open the carrying case, and place in a convenient location.

1. Circuit Setters & MPV'S

- A. Connect hoses to circuit setter; the red hose to the high pressure (upstream) side and the green hose to the low pressure (downstream) side. When flow through the circuit setter is from left to right, the high pressure side is on the left; and the low pressure side is on the right.

- B. Open the needle valves on the circuit setter.

NOTE:

On newer valves, screwing the hose fitting onto the pressure tap will automatically open the tap.

- C. Read the differential pressure on the gauge.

NOTE:

If no reading is obtained, reverse the hoses on the circuit setter or MPV.

- D. Use Side B of the slide rule to obtain the flow rate (circuit setter) or the flow charts for the MPV and 4" C.S.

- E. Shut the circuit setter needle valves and disconnect the hoses.

NOTE:

Removing the screwed hose connection on the newer taps automatically closes the tap.

2. Sentinel Flow Metering System

- A. Connect the red hose to the high pressure tap and the green hose to the low pressure tap.

NOTE:

On sentinel probes the side connection will be the high pressure connection when pointing with the flow; on in-line units, the upstream connection is the high pressure connection.

- B. Read the differential pressure on the inches of water gauge.

NOTE: If there is no pressural reading, the flow may be too low to create a differential pressure great enough to be indicated on the gauge, or the flow is in the opposite direction, which will require reversing the hoses.

- C. Apply the differential pressure reading to the chart printed on the back of this instruction sheet. The pressure is located on the left hand narrow side of the charter. Find the corresponding pressure and travel straight across until you intersert with the diagonal line which corresponds with the sentinel station size (pipe size) indicated at the top of the chart. At the intersection point, travel straight down and read the flow in gallons per minute.
- D. When readings have been completed, secure the needle valve and unscrew the hose connections.

CAUTION:

While system is pressurized, do not loosen the compression fitting that holds the sentinel probe in place. Loosening the fitting without precaution may result in fluid leakage and the probe shooting from the line with dangerous force.

CAUTION:

Damage to the gauge will occur if exposed to freezing temperatures after the first usage.

Hoses are stored by coiling them around the gauge in the carrying case.