	INSTRUCTION SHEET
NUMBER IS400 2.2A1	Effective: July 1, 1982 Supersedes: New

PLANT ID No. 001-902

Sentinel Flowmetering System Differential Pressure Gauge

Model 7007 & 7008

(Meter reads in inches of water)

FLOW TEST KIT

Basic Operating Instructions

1. Open carrying case and sit in a convenient spot on test site with test panel in a vertical plane.
2. With balance valve closed, connect hoses to meter — Red hose upstream, High Pressure — Green hose downstream — Low Pressure.

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

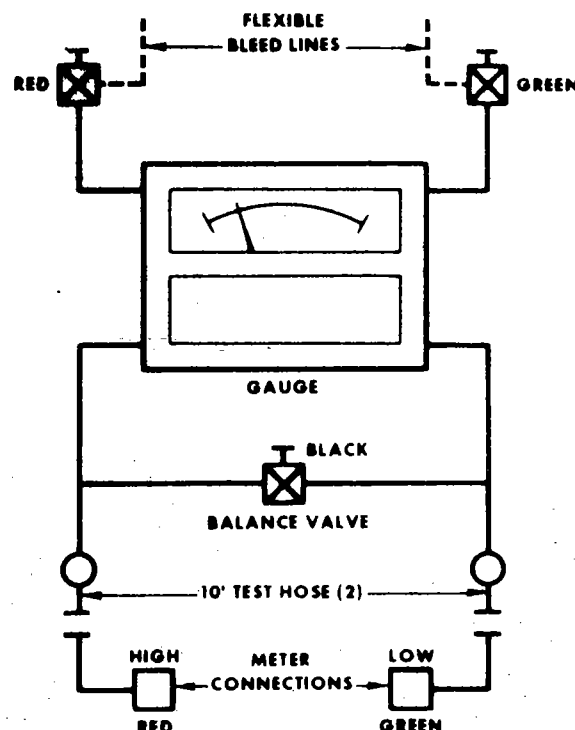
3. Open balance valve (bottom of panel).
4. Open flow meter pressure connections.
5. Open high and low bleed valves alternately to purge air from system. (Bleed water discharges from convenient clear plastic flexible tube.)
6. When bleeding shows all air removed — close bleed valves, close Balance Valve and read Differential Pressure Gauge. Refer to chart on back of this sheet for conversion to GPM.
7. When test is complete — open balance valve. Secure Flowmeter pressure connections before disconnecting Test Hoses from meter.
8. Hoses are stored by coiling them around the test panel.

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.

NOTE: The TACO Test Kit is equipped with screens in the inlet hoses. If the gauge responds slowly when the balance valve is closed, the screens may be partially plugged.

To flush out and clean the screens and restore normal operation:

Open the Balance Valve. With the high and low pressure hoses connected to the flowmeter (or other source of pressure), alternately disconnect the high, and then the low pressure hoses, and flush out each hose until the flow is clear. Approximately 30 seconds for each hose should be adequate.

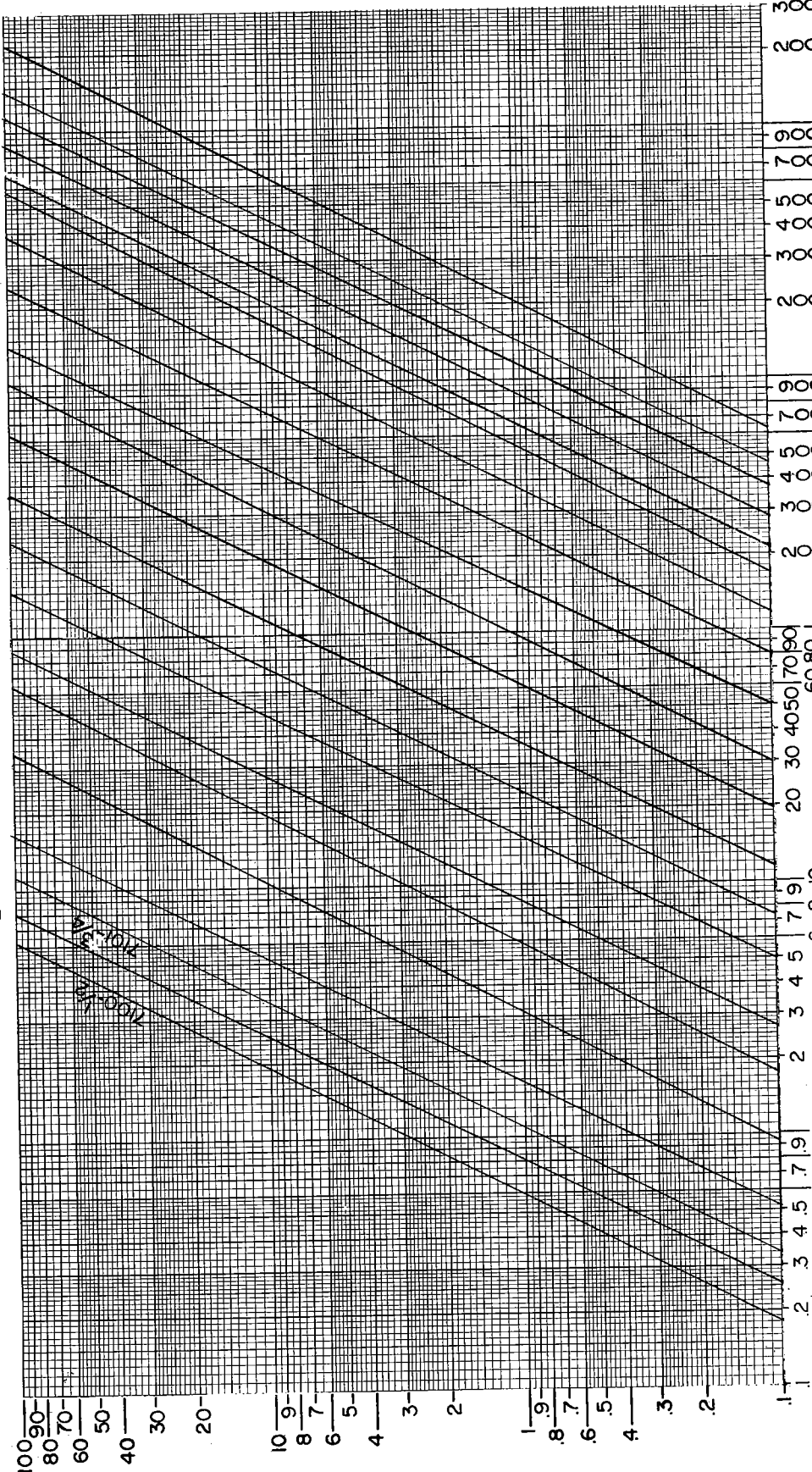


SENTINEL FLOW CHART

(WATER TEMPERATURE 70°)

SENTINEL STATION SIZE

1/2 3/4 1 1 1/4 1 1/2 2 2 1/2 3 4 5 6 8 10 12 14 16 18 20 24



DIFFERENTIAL PRESSURE

INCHES OF WATER

FLOW-GALLONS PER MINUTE

BASED ON SCH. 40 PIPE - SIZES 1/2-12, STD. SCH. PIPE 14-24