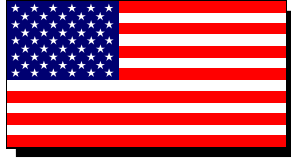


# Mid-West<sup>®</sup> Instrument

## MODEL 843

### PRECISION FLOW TEST KIT



**Made In  
USA**



#### Functions & Applications:

Rugged (2) gauge medium duty portable flow test kit. This kit is equipped with two Diaphragm Type differential pressure gauges with complimentary dial ranges, enabling it to cover a broad range of differential pressures. Both gauges are protected against over-range to the maximum working pressure of the test kit. While primarily used for balancing HVAC systems it has numerous other applications which include but are not limited to: checking pump performance, checking pressure drop across filters, leakage, etc...

#### Product Features/Benefits:

- Over 30 Years of Input from Professional Testing Technicians
- Combination kit includes both 831 & 841 Flow test gauges
- Test kit is protected with 90 micron filters to minimize plugging with scale, sand, etc. Filter elements can be cleaned or replaced.
- Durable Molded Plastic Carrying Case
- Test Procedures are Laminated in Clear Plastic
- 5 Year Warranty

#### Specifications:

- Gauge Type: **(2)** "Diaphragm" Differential Pressure
- Dial Size: **(2)** 4-1/2"
- Range: 0-5" H<sub>2</sub>O thru 0-100 PSID ranges available
- Differential Pressure Accuracy:  
**(831)** 0-5" H<sub>2</sub>O thru 0-9.9" H<sub>2</sub>O ±5% / 0-10" thru 0-400" H<sub>2</sub>O) ±3-2-3% Full Scale (Ascending)  
**(841)** 0-50" H<sub>2</sub>O thru 0-400" H<sub>2</sub>O ±5% / 0-15 PSID thru 0-100 PSID ±3-2-3% Full Scale (Ascending)
- Working Pressure: 300 PSIG (Standard)
- Gauge Material: **(1)** Engineered Plastic Body **(1)** Aluminum Body & 316 S.S. Internals
- Wetted Internals: Buna-N Seal & Diaphragm, Plastic, Aluminum & S.S., Brass
- Hoses & End Fittings: Nitrile Jacket and liner. Schrader 1/4" brass coupler **(Connects with 1/4" 37° Flare Male Fittings).**
- Tubing & Fittings: Nylon & Brass
- Hose Length: 5' long (1.5 meter)
- Filters: 90 Micron Brass **(Order Replacement Filter Kit No. 98008)**
- Approximate Shipping Weight: 12 lbs / 5.5 kgs
- Case: Polyethylene
- Dimensional Data: 16.5" x 7.25" x 9"
- Temperature Limitations: Maximum 150°F/65°C  
**Freezing Temperatures must be avoided**

# MODEL 843 TEST KIT

## BASIC OPERATING INSTRUCTIONS

1. Connect hoses to test connections – red high pressure hose upstream and green low pressure hose downstream
2. Open valves on device being tested and read differential.
3. Upon completion of test close valves, disconnect hoses and store them in test kit case.

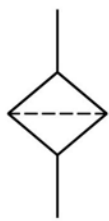
**NOTE:** The 843 Test Kit is equipped with in line filters near the ends of the hoses. If the gauges respond slowly to changes in the differential pressure the filter elements may be partially plugged.

To remedy this, unscrew the two halves of the filter housing and remove brass filter element. It may be cleaned by flushing with mild detergent and water. If, after reassembly this has not satisfactorily improved the response time a replacement filter element kit #98008 should be installed.

## MODEL 843 TEST KIT

### SCHEMATIC DIAGRAM

#### LEGEND



FILTER

