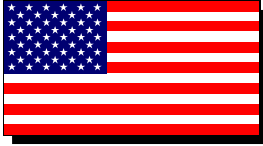


# Mid-West<sup>®</sup> Instrument

## MODEL 806

### PRECISION FLOW TEST KIT



**Made In  
USA**



#### Functions & Applications:

High accuracy portable test kit for precise flow indication and leak detection. This kit is equipped with a precise ( $\pm 1\%$  of full scale) accuracy differential pressure gauge. Popular applications include but are not limited to: measuring the pressure drop across various types of equipment i.e. filters, balancing HVAC systems, checking pump performance, orifice plates, checking calibration of transmitters, or reading flow directly when ordered with a square root dial etc.

When being used the gauge should be placed in as nearly vertical position as possible. This gauge is position sensitive and accuracy may be less than stated, if not in a vertical position.

#### Product Features/Benefits:

- Over 30 Years of Input from Professional Testing Technicians
- Soft-Seated Brass Needle Valves (with replaceable valve seats)
- 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 with Removable lid
- Test Procedures are Laminated in Clear Plastic
- 5 Year Warranty

#### Specifications:

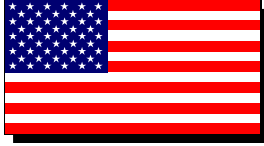
- Gauge Type: Bellows Differential Pressure
- Dial Size: 4-1/2" Standard (6" Optional)
- Range (4-1/2") 0-80" thru 0-400" H<sub>2</sub>O ranges available
- Differential Pressure Accuracy:  $\pm 1\%$  Full Scale (Ascending) Std.  
(Accuracy:  $\pm 1/2\%$  Full Scale available)
- Working Pressure: 500 PSIG (Standard)
- Gauge Material: Aluminum Body & Copper Alloy Internals
- Wetted Internals: Buna-N Seals, Aluminum & Copper Alloy
- Hoses & End Fittings: Nitrile Jacket and liner. Schrader 1/4" brass coupler  
(Connects with 1/4" 37° Flare Male Fittings)
- Valves: Soft-Seated Brass
- Tubing & Fittings: Nylon & Brass
- Hose Length: 10' long (3 meter)
- Filters: 90 Micron Brass (Order Replacement Filter Kit No. 98008)
- Approximate Shipping Wgt: 15 lbs / 6.8 kg
- Case: Polyethylene
- Dimensional Data: 13.75" x 15.5" x 8.5"
- Temperature Limitations: Maximum 150°F/65°C  
**Freezing Temperatures must be avoided**

***Model 806 plumbed for water service only. Please contact the factory for assistance on kits for use with other liquids or gases.***

# Mid-West<sup>®</sup> Instrument

## MODEL 809

### PRECISION FLOW TEST KIT



**Made In  
USA**



#### Functions & Applications:

High accuracy portable test kit for precise flow indication and leak detection. This kit is equipped with a precise ( $\pm 1\%$  of full scale) accuracy differential pressure gauge. Popular applications include but are not limited to: measuring the pressure drop across various types of equipment i.e. filters, balancing HVAC systems, checking pump performance, orifice plates, checking calibration of transmitters, or reading flow directly when ordered with a square root dial etc.

When being used the gauge should be placed in as nearly vertical position as possible. This gauge is position sensitive and accuracy may be less than stated, if not in a vertical position.

#### Product Features/Benefits:

- Over 30 Years of Input from Professional Testing Technicians
- Soft-Seated Brass Needle Valves (with replaceable valve seats)
- 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 with Removable lid
- Test Procedures are Laminated in Clear Plastic
- 5 Year Warranty

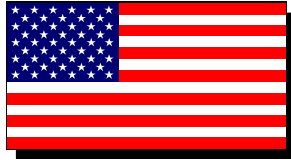
#### Specifications:

- Gauge Type: "Bourdon Tube" Differential Pressure
- Dial Size: 4-1/2" Standard (6" Optional)
- Range (4-1/2") 0-15 PSID thru 0-500 PSID ranges available
- Differential Pressure Accuracy:  $\pm 1\%$  Full Scale (Ascending) Std.  
(Accuracy:  $\pm 1/2\%$  Full Scale available)
- Working Pressure: 500 PSIG (Standard)
- Gauge Material: Aluminum Body & Copper Alloy Internals
- Wetted Internals: Buna-N Seals, Aluminum & Copper Alloy
- Hoses & End Fittings: Nitrile Jacket and liner. Schrader 1/4" brass coupler  
(Connects with 1/4" 37° Flare Male Fittings)
- Valves: Soft-Seated Brass
- Tubing & Fittings: Nylon & Brass
- Hose Length: 10' long (3 meter)
- Filters: 90 Micron Brass (Order Replacement Filter Kit No. 98008)
- Approximate Shipping Wgt: 15 lbs / 6.8 kg
- Case: Polyethylene
- Dimensional Data: 13.75" x 15.5" x 8.5"
- Temperature Limitations: Maximum 150°F/65°C  
**Freezing Temperatures must be avoided**

**Model 809 plumbed for water service only. Please contact the factory for assistance on kits for use with other liquids or gases.**

# Mid-West<sup>®</sup> Instrument

## MODEL 820 PRECISION FLOW TEST KIT



**Made In  
USA**



### Functions & Applications:

Rugged Medium Duty Portable Test Kit. This test kit is equipped with a  $\pm 3-2-3\%$  of full scale accuracy (ascending) piston type differential pressure gauge. Popular applications include but are not limited to, measuring pressure drop across various types of equipment, filters, checking pump performance, balancing valves, checking equipment for excessive pressure drop, leakage, etc.

### Product Features/Benefits:

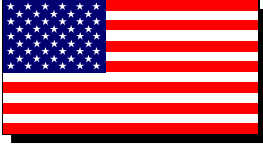
- Over 30 Years of Input from Professional Testing Technicians
- Test kit is protected with 90 micron filters to minimize plugging with scale, sand, etc. Filter elements can be cleaned or replaced
- Durable Molded Plastic Carrying Case
- Test Procedures are Laminated in Clear Plastic
- 5 Year Warranty

### Specifications:

- Gauge Type: "Piston" Differential Pressure
- Dial Size: 2-1/2"
- Range: 0-10 PSID thru 0-100 PSID ranges available
- Accuracy:  $\pm 3-2-3\%$  Full Scale (Ascending)
- Working Pressure: 500 PSIG (Standard)
- Gauge Material: Aluminum Body & 316 S.S. Internals
- Wetted Internals: Buna-N Seals, Aluminum & 316 Stainless Steel
- 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 Wgt: 3.5 lbs / 1.6 kg
- Case: Polyethylene
- Dimensional Data: 12.25" x 6" x 7"
- Temperature Limitations: Maximum 150°F/65°C  
**Freezing Temperatures must be avoided**

# Mid-West<sup>®</sup> Instrument

## MODEL 831 PRECISION FLOW TEST KIT



**Made In  
USA**



### Functions & Applications:

Sensitive yet rugged medium duty portable test kit. This test kit is equipped with a  $\pm 3-2-3\%$  of full scale accuracy (ascending) diaphragm type differential pressure gauge. Ideally suited for applications where differential pressures of 0-5" to 0-400" H<sub>2</sub>O may be encountered. Popular applications are balancing heating & cooling systems, checking pump performance, leakage, checking equipment for excessive pressure drop, (i.e. filters, balancing valves, averaging pitot tubes, orifice plates etc.) Dials may be for reading differential pressure, or reading flow directly if ordered with a flow (square root) dial.

### Product Features/Benefits:

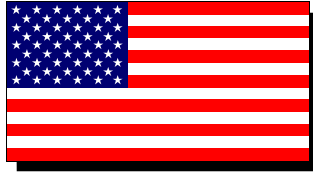
- Over 30 Years of Input from Professional Testing Technicians
- Soft-Seated Brass Needle Valves (with replaceable valve seats)
- Test kit is protected with 90 micron filters to minimize plugging with scale, sand, etc. Filter elements can be cleaned or replaced
- Durable Molded Plastic Carrying Case with Removable lid
- Test Procedures are Laminated in Clear Plastic
- 5 Year Warranty

### Specifications:

- Gauge Type: "Diaphragm" Differential Pressure
- Dial Size: 4-1/2"
- Range: 0-10" H<sub>2</sub>O thru 0-400" H<sub>2</sub>O ranges available
- **Accuracy:**  $\pm 5\%$  Full Scale (Ascending) 0-5" H<sub>2</sub>O thru 0-9.9" H<sub>2</sub>O  
 $\pm 2\%$  Full Scale (Ascending) 0-10" H<sub>2</sub>O thru 0-400" H<sub>2</sub>O
- Working Pressure: 300 PSIG (Standard)
- Gauge Material: Engineered Plastic 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).**
- Valves: Soft-Seated Brass
- Tubing & Fittings: Nylon & Brass
- Hose Length: 10' long (3.0 meter)
- Filters: 90 Micron Brass **(Order Replacement Filter Kit No. 98008)**
- Approximate Shipping Wgt: 12 lbs / 5.5 kgs
- Case: Polyethylene
- Dimensional Data: 13.75" x 15.5" x 8.5"
- Temperature Limitations: Maximum 150°F/65°C  
**Freezing Temperatures must be avoided**

# Mid-West<sup>®</sup> Instrument

## MODEL 841 PRECISION FLOW TEST KIT



Made In  
USA



### Functions & Applications:

Rugged Medium Duty Portable Test Kit. This test kit is equipped with a  $\pm 3-2-3\%$  of full scale accuracy (ascending) diaphragm type differential pressure gauge. Popular applications include but are not limited to, measuring pressure drop across various types of equipment, filters, checking pump performance, balancing valves, checking equipment for excessive pressure drop, leakage, etc.

### Product Features/Benefits:

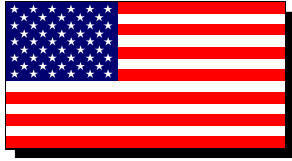
- Over 30 Years of Input from Professional Testing Technicians
- Test kit is protected with 90 micron filters to minimize plugging with scale, sand, etc. Filter elements can be cleaned or replaced
- Durable Molded Plastic Carrying Case
- Test Procedures are Laminated in Clear Plastic
- 5 Year Warranty

### Specifications:

- Gauge Type: "Diaphragm" Differential Pressure
- Dial Size: 2-1/2"
- Range: 0-50" H<sub>2</sub>O thru 0-100 PSID ranges available
- Differential Pressure Accuracy:  $\pm 5\%$  Full Scale (Ascending) 0-50" thru 0-399.9" H<sub>2</sub>O  
 $\pm 3-2-3\%$  Full Scale (Ascending) 0-400" H<sub>2</sub>O thru 0-100 PSID
- Working Pressure: 500 PSIG (Standard)
- Gauge Material: Aluminum Body & 316 S.S. Internals
- Wetted Internals: Buna-N Seal & Diaphragm, Aluminum & 316 Stainless Steel
- 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 Wgt: 8 lbs / 3.6 kgs
- Case: Polyethylene
- Dimensional Data: 12.25" x 6" x 7"
- Temperature Limitations: Maximum 150°F/65°C  
**Freezing Temperatures must be avoided**

# Mid-West<sup>®</sup> Instrument

## MODEL 842 PRECISION FLOW TEST KIT



**Made In  
USA**



### Functions & Applications:

Rugged (2) gauge medium duty portable flow test kit. This kit is equipped with two differential pressure gauges with complimentary dial ranges, enabling it to cover a broad range of differential pressures with accuracies of  $\pm 3-2-3\%$  full scale (ascending). 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:

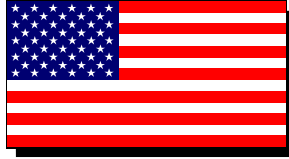
- Over 30 Years of Input from Professional Testing Technicians
- Combination kit includes both 820 & 841 Flow test gauges
- Test kit is protected with 90 micron filters to minimize plugging with scale, sand, etc. Filter elements can be cleaned or replaced
- Durable Molded Plastic Carrying Case
- Test Procedures are Laminated in Clear Plastic
- 5 Year Warranty

### Specifications:

- Gauge Type: **(1)** "Piston" & **(1)** "Diaphragm" Differential Pressure
- Dial Size: **(2)** 2-1/2"
- Range: 0-50" H<sub>2</sub>O thru 0-100 PSID ranges available
- Differential Pressure Accuracy:  $\pm 3-2-3\%$  Full Scale (Ascending) 0-50" H<sub>2</sub>O thru 0-100 PSID
- Working Pressure: 500 PSIG (Standard)
- Gauge Material: **(2)** Aluminum Body & 316 S.S. Internals
- Wetted Parts: Buna-N Seal & Diaphragm, Brass, Aluminum & 316 Stainless Steel
- 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 Wgt: 10 lbs / 4.5 kg
- Case: Polyethylene
- Dimensional Data: 12.25" x 6" x 7"
- Temperature Limitations: Maximum 150°F/65°C  
**Freezing Temperatures must be avoided**

# 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 differential pressure gauges with complimentary dial ranges, enabling it to cover a broad range differential pressures and accuracies of  $\pm 3-2-3\%$  full scale (ascending). 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: 0-10" H<sub>2</sub>O thru 0-100 PSID ranges available
- Pressure Accuracy:  $\pm 5\%$  Full Scale (Ascending) 0-10" H<sub>2</sub>O thru 0-400" H<sub>2</sub>O
- $\pm 3-2-3\%$  Full Scale (Ascending) 0-400" H<sub>2</sub>O thru 0-100 PSID
- 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**