### PRESSURE SWITCHES

<table>
<thead>
<tr>
<th>Bulletin Number</th>
<th>Bulletin Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2M400F Rev. 6</td>
<td>P01908 Pressure Switch, Installation &amp; Service</td>
</tr>
<tr>
<td>2M400F Rev. 6</td>
<td>P01909 Pressure Switch, Installation &amp; Service</td>
</tr>
<tr>
<td>2M401 Rev. 5</td>
<td>P04159 Pressure Switch, Installation &amp; Service</td>
</tr>
<tr>
<td>2M401 Rev. 5</td>
<td>P04160 Pressure Switch, Installation &amp; Service</td>
</tr>
<tr>
<td>2M410</td>
<td>PPS1 Pressure Switch, Installation &amp; Service</td>
</tr>
<tr>
<td>Safety Guide</td>
<td>PDN Safety Guide</td>
</tr>
</tbody>
</table>

Visit [www.pdnplu.com](http://www.pdnplu.com) for additional instruction sheets.
**WARNING**

To avoid unpredictable system behavior that can cause personal injury and property damage:
- Disconnect electrical supply (when necessary) before installation, servicing, or conversion.
- Disconnect air supply and depressurize all air lines connected to this product before installation, servicing, or conversion.
- Operate within the manufacturer’s specified pressure, temperature, and other conditions listed in these instructions.
- Medium must be moisture-free if ambient temperature is below freezing.
- Service according to procedures listed in these instructions.
- Installation, service, and conversion of these products must be performed by knowledgeable personnel who understand how pneumatic products are to be applied.
- After installation, servicing, or conversion, air and electrical supplies (when necessary) should be connected and the product tested for proper function and leakage. If audible leakage is present, or the product does not operate properly, do not put into use.
- Warnings and specifications on the product should not be covered by paint, etc. If masking is not possible, contact your local representative for replacement labels.

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**Introduction**

Follow these instructions when installing, operating, or servicing the product.

**Application Limits**

These products are intended for use in general purpose compressed air systems only.

<table>
<thead>
<tr>
<th>Operating Inlet Pressure</th>
<th>kPa</th>
<th>PSIG</th>
<th>bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Styles Pressure Max.</td>
<td>2067</td>
<td>300</td>
<td>20</td>
</tr>
</tbody>
</table>

**Adjustment Range**

<table>
<thead>
<tr>
<th>Flying Lead Pressure</th>
<th>kPa</th>
<th>PSIG</th>
<th>bar</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>172 / 689</td>
<td>25 / 100</td>
<td>1.7 / 6.8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DIN Connector Pressure</th>
<th>kPa</th>
<th>PSIG</th>
<th>bar</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>207 / 1034</td>
<td>30 / 150</td>
<td>2.1 / 10.3</td>
</tr>
</tbody>
</table>

**Ambient Temperature Range**

-40°C to 80°C (-40°F to 180°F)

**Symbol**

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**Installation Instructions**

1. The pressure switch should be installed with reasonable accessibility for service. Pipe joint compound should be applied sparingly, and only to the male threads, never to the female threads. Do not use PTFE tape to seal joints - pieces have a tendency to break off and lodge inside the unit, possibly causing malfunction.
2. Install pressure switch in gauge ports, manifold blocks, or any airline application. Mounting may be in any position.
3. Installing a filter upstream of the pressure switch will provide added protection against rust, pipe scale, and other foreign matter.

**Operation**

1. **Description:**
   The pressure switch monitors air pressure and provides an electrical output when the pressure drops below or exceeds an adjustable preset pressure.

2. **Adjustment:**
   - **Flying Lead**
     A. Remove screw from top of switch.
     B. Using a 1/8" (3mm) hex wrench, turn the adjustment screw clockwise to increase set point or counterclockwise to decrease set point.
     C. Replace screw.
   - **DIN Connector**
     Using a 1/8" (3mm) hex wrench, turn the adjustment screw clockwise to increase set point or counterclockwise to decrease set point. One complete revolution of the adjusting screw covers the complete adjustment range.

**Kits and Accessories**

Bushing 1/4" to 3/8" ...................................................... 209P-6-4
Bushing 1/4" to 1/2" ...................................................... 209P-8-4

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**WARNING**

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from The Company, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application, including consequences of any failure and review the information concerning the product or systems in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.
**Pneumatic Division**
Richland, Michigan 49083
269-629-5000

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**WARNING**
To avoid unpredictable system behavior that can cause personal injury and property damage:
- Disconnect electrical supply (when necessary) before installation, servicing, or conversion.
- Disconnect air supply and depressurize all air lines connected to this product before installation, servicing, or conversion.
- Operate within the manufacturer’s specified pressure, temperature, and other conditions listed in these instructions.
- Medium must be moisture-free if ambient temperature is below freezing.
- Service according to procedures listed in these instructions.
- Installation, service, and conversion of these products must be performed by knowledgeable personnel who understand how pneumatic products are to be applied.
- After installation, servicing, or conversion, air and electrical supplies (when necessary) should be connected and the product tested for proper function and leakage. If audible leakage is present, or the product does not operate properly, do not put into use.
- Warnings and specifications on the product should not be covered by paint, etc. If masking is not possible, contact your local representative for replacement labels.

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**Safety Guide**
For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogs or you can download the Pneumatic Division Safety Guide at: www.parker.com/safety

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**Introduction**
Follow these instructions when installing, operating, or servicing the product.

**Application Limits**
These products are intended for use in mobile general purpose compressed air systems only.

Product shipped preset per customer order.

<table>
<thead>
<tr>
<th>Operating Inlet Pressure</th>
<th>kPa</th>
<th>PSIG</th>
<th>bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Max.</td>
<td>2067</td>
<td>300</td>
<td>20</td>
</tr>
<tr>
<td>Adjustment Range</td>
<td>103 / 1034</td>
<td>15 / 150</td>
<td>1 / 10</td>
</tr>
<tr>
<td>Spade Pressure</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambient Temperature Range</td>
<td>-40°C to 105°C (-40°F to 220°F)</td>
<td>Ambient &amp; Medium</td>
<td></td>
</tr>
</tbody>
</table>

**Symbol**

- N.C.
- N.O.

**Technical Specifications**
P04159 Switch Position .............................. Normally Closed
P04160 Switch Position .............................. Normally Open
Electrical Rating: .................................... 100VA / 24VDC
Electrical Life .................. 4 Amp In Rush @ 12VDC >2,000,000 Cycles
Repeatability .................. ±5% @ 70°F (20°C) Ambient Temperature
Mechanical Life .............................. >2 x 10^6 @ 75 PSI (5 bar)
Deadband (Avg. Diff.) .................. <=5% of Full Set Point Range

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**Installation Instructions**
1. The pressure switch should be installed with reasonable accessibility for service. Pipe joint compound should be applied sparingly, and only to the male threads, never to the female threads. Do not use PTFE tape to seal joints - pieces have a tendency to break off and lodge inside the unit, possibly causing malfunction.
2. Install pressure switch in gauge ports, manifold blocks, or any airline application. Mounting may be in any position.
3. Installing a filter upstream of the pressure switch will provide added protection against rust, pipe scale, and other foreign matter.

**Operation**
1. Description:
   - N.O.: The pressure switch monitors air pressure and provides an electrical output when the pressure exceeds an adjustable preset pressure.
   - N.C.: The pressure switch monitors air pressure and provides an electrical output when the pressure is below the adjusted preset pressure.
2. Adjustment:
   - Spade
     A. Using a flat head screw driver, turn the adjustment screw clockwise to increase set point or counterclockwise to decrease set point.

**Kits and Accessories**
Rubber Boot ........................................ P04161

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This document and other information from The Company, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application, including consequences of any failure and review the information concerning the product or systems in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.
WARNING
To avoid unpredictable system behavior that can cause personal injury and property damage:
- Disconnect electrical supply (when necessary) before installation, servicing, or conversion.
- Disconnect air supply and depressurize all air lines connected to this product before installation, servicing, or conversion.
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- Medium must be moisture-free if ambient temperature is below freezing.
- Service according to procedures listed in these instructions.
- Installation, service, and conversion of these products must be performed by knowledgeable personnel who understand how pneumatic products are to be applied.
- After installation, servicing, or conversion, air and electrical supplies (when necessary) should be connected and the product tested for proper function and leakage. If audible leakage is present, or the product does not operate properly, do not put into use.
- Warnings and specifications on the product should not be covered by paint, etc. If masking is not possible, contact your local representative for replacement labels.

CAUTION
Polyurethane bowls, sight glass and sight domes on these units may be attacked by certain chemicals. Never use solvents like carbon tetrachloride, trichlorethylene, acetone, or paint thinner to clean any parts. These elements can cause crazing or failure of the plastic parts. The polyurethane resin parts are compatible with most hydrocarbon based synthetic lubricants but, before using, check with the manufacturer of the lubricant or oil for compatibility with polyurethane resin.
TO CLEAN POLYURETHANE BOWLS USE MILD SOAP AND WATER ONLY!

Safety Guide
For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogs or you can download the Pneumatic Division Safety Guide at: www.parker.com/pneumatics

Features:
- Long life elastomer diaphragm
- High quality snap action switch
- Field adjustable
- Compact design
- Easily customized
- Quick delivery
- NEMA 4, 13

Operation
The pressure switch monitors the air pressure in your pneumatic system. When the pressure in your system either drops below or exceeds the set point pressure, an electrical output is given.

Definitions and Terminology
Repeatability — Accuracy is the maximum allowable set point deviation of a single pressure or temperature switch under one given set of environmental and operational conditions.

Single Pole Double Throw (SPDT) Switching element — A SPDT switching element has one normally open, one normally closed and one common terminal. Three terminals mean that the switch can be wired with the circuit either normally open (NO), or normally closed (NC), or both.

Dead Band — The dead band, sometimes referred to as “differential” or “hysteresis”, is the change in pressure between actuation and deactuation set points.

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Specifications

Set Point Tolerance.................................±1 PSI or 5% (.07 bar)
Temperature Range..........................-40°F to 220°F (-40°C to 105°C)
Max. Operating Pressure
(Ranges 1, 2, 3)..........................250 PSI (17.2 bar)
Max. Operating Pressure
(Range 4)........................................2000 PSI (137.9 bar)
Deadband........................................10 - 20% of set pressure
Current Rating..................................3A @ 125 VAC
..........................................................2A @ 30 VDC (Resistive)
Circuit Form.....................................SPDT Standard
Cycle Life...........................................1 Million

Materials of Construction

Adjustment Knob.................................Anodized Aluminum
Body .................................................Brass
Diaphragm .......................................Nitrile

Ordering Information

<table>
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<tr>
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<th>Circuit</th>
<th>Range</th>
<th>Set Point Direction</th>
<th>Electrical Connection</th>
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<tbody>
<tr>
<td>1</td>
<td>C</td>
<td>3</td>
<td>R</td>
<td>HM</td>
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<table>
<thead>
<tr>
<th>PPS1 -</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1/4&quot; NPT Male</td>
<td>1/8&quot; NPT Male</td>
<td>1/4&quot; BSPP Male</td>
<td>1/8&quot; BSPP Male</td>
</tr>
<tr>
<td>2</td>
<td>R Rising</td>
<td>Range 1</td>
<td>Range 2</td>
<td>Range 3</td>
</tr>
<tr>
<td>3</td>
<td>3-10 PSI</td>
<td>6-30 PSI</td>
<td>20-120 PSI</td>
<td>100-400 PSI†</td>
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<td>4</td>
<td>4 Only available in 1/4&quot; NPT</td>
<td>Factory setting for calibration purposes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Switch is field adjustable.

* Only available in 1/4" NPT
† Factory setting for calibration purposes
Range 1 = 6 PSI
Range 2 = 18 PSI
Range 3 = 70 PSI
Range 4 = 250 PSI

Specifications

Set Point Tolerance.................................±1 PSI or 5% (.07 bar)
Temperature Range..........................-40°F to 220°F (-40°C to 105°C)
Max. Operating Pressure
(Ranges 1, 2, 3)..........................250 PSI (17.2 bar)
Max. Operating Pressure
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Circuit Form.....................................SPDT Standard
Cycle Life...........................................1 Million

Materials of Construction

Adjustment Knob.................................Anodized Aluminum
Body .................................................Brass
Diaphragm .......................................Nitrile
Safety Guide For Selecting And Using Pneumatic Division Products And Related Accessories

⚠️ WARNING:

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF PNEUMATIC DIVISION PRODUCTS, ASSEMBLIES OR RELATED ITEMS ("PRODUCTS") CAN CAUSE DEATH, PERSONAL INJURY, AND PROPERTY DAMAGE. POSSIBLE CONSEQUENCES OF FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THESE PRODUCTS INCLUDE BUT ARE NOT LIMITED TO:

- Unintended or mistimed cycling or motion of machine members or failure to cycle
- Work pieces or component parts being thrown off at high speeds.
- Failure of a device to function properly for example, failure to clamp or unclamp an associated item or device.
- Explosion
- Suddenly moving or falling objects.
- Release of toxic or otherwise injurious liquids or gasses.

Before selecting or using any of these Products, it is important that you read and follow the instructions below.

1. GENERAL INSTRUCTIONS

1.1. Scope: This safety guide is designed to cover general guidelines on the installation, use, and maintenance of Pneumatic Division Valves, FRLs (Filters, Pressure Regulators, and Lubricators), Vacuum products and related accessory components.

1.2. Fail-Safe: Valves, FRLs, Vacuum products and their related components can and do fail without warning for many reasons. Design all systems and equipment in a fail-safe mode, so that failure of associated valves, FRLs or Vacuum products will not endanger persons or property.


1.4. Distribution: Provide a copy of this safety guide to each person that is responsible for selection, installation, or use of Valves, FRLs or Vacuum products. Do not select, or use Parker valves, FRLs or vacuum products without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the products considered or selected.

1.5. User Responsibility: Due to the wide variety of operating conditions and applications for valves, FRLs, and vacuum products Parker and its distributors do not represent or warrant that any particular valve, FRL or vacuum product is suitable for any specific end use system. This safety guide does not analyze all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for:

- Making the final selection of the appropriate valve, FRL, Vacuum component, or accessory.
- Assuring that all user’s performance, endurance, maintenance, safety, and warning requirements are met and that the application presents no health or safety hazards.
- Complying with all existing warning labels and / or providing all appropriate health and safety warnings on the equipment on which the valves, FRLs or Vacuum products are used; and,
- Assuring compliance with all applicable government and industry standards.

1.6. Safety Devices: Safety devices should not be removed, or defeated.

1.7. Warning Labels: Warning labels should not be removed, painted over or otherwise obscured.

1.8. Additional Questions: Call the appropriate Parker technical service department if you have any questions or require any additional information. See the Parker publication for the product being considered or used, or call 1-800-CPARKER, or go to www.parker.com, for telephone numbers of the appropriate technical service department.

2. PRODUCT SELECTION INSTRUCTIONS

2.1. Flow Rate: The flow rate requirements of a system are frequently the primary consideration when designing any pneumatic system. System components need to be able to provide adequate flow and pressure for the desired application.

2.2. Pressure Rating: Never exceed the rated pressure of a product. Consult product labeling, Pneumatic Division catalogs or the instruction sheets supplied for maximum pressure ratings.

2.3. Temperature Rating: Never exceed the temperature rating of a product. Excessive heat can shorten the life expectancy of a product and result in complete product failure.

2.4. Environment: Many environmental conditions can affect the integrity and suitability of a product for a given application. Pneumatic Division products are designed for use in general purpose industrial applications. If these products are to be used in unusual circumstances such as direct sunlight and/or corrosive or caustic environments, such use can shorten the useful life and lead to premature failure of a product.

2.5. Lubrication and Compressor Carryover: Some modern synthetic oils can and will attack nitrile seals. If there is any possibility of synthetic oils or greases migrating into the pneumatic components check for compatibility with the seal materials used. Consult the factory or product literature for materials of construction.

2.6. Polycarbonate Bowls and Sight Glasses: To avoid potential polycarbonate bowl failures:

- Do not locate polycarbonate bowls or sight glasses in areas where they could be subject to direct sunlight, impact blow, or temperatures outside of the rated range.
- Do not expose or clean polycarbonate bowls with detergents, chlorinated hydro-carbons, keytones, esters or certain alcohols.
- Do not use polycarbonate bowls or sight glasses in air systems where compressors are lubricated with fire resistant fluids such as phosphate ester and di-ester lubricants.
2.7. Chemical Compatibility: For more information on plastic component chemical compatibility see Pneumatic Division technical bulletins Tec-3, Tec-4, and Tec-5.

2.8. Product Rupture: Product rupture can cause death, serious personal injury, and property damage.
- Do not exceed the maximum primary pressure rating of any pressure regulator or any system component.
- Consult product labeling or product literature for pressure rating limitations.
- Do not connect pressure regulators or other Pneumatic Division products to bottled gas cylinders.

3. PRODUCT ASSEMBLY AND INSTALLATION INSTRUCTIONS

3.1. Component Inspection: Prior to assembly or installation a careful examination of the valves, FRLs or vacuum products must be performed. All components must be checked for correct style, size, and catalog number. DO NOT use any component that displays any signs of nonconformance.

3.2. Installation Instructions: Parker published Installation Instructions must be followed for installation of Parker valves, FRLs and vacuum components. These instructions are provided with every Parker valve or FRL sold, or by calling 1-800-CPARKER, or at www.parker.com.

3.3. Air Supply: The air supply or control medium supplied to Valves, FRLs and Vacuum components must be moisture-free if ambient temperature can drop below freezing.

4. VALVE AND FRL MAINTENANCE AND REPLACEMENT INSTRUCTIONS

4.1. Maintenance: Even with proper selection and installation, valve, FRL and vacuum products service life may be significantly reduced without a continuing maintenance program. The severity of the application, risk potential from a component failure, and experience with any known failures in the application or in similar applications should determine the frequency of inspections and the servicing or replacement of Pneumatic Division products so that products are replaced before any failure occurs. A maintenance program must be established and followed by the user and, at minimum, must include instructions 4.2 through 4.10.

4.2. Installation and Service Instructions: Prior to assembly or installation the valves, FRLs or vacuum products must be carefully examined. All components must be checked for correct style, size, and catalog number. DO NOT use any component that displays any signs of nonconformance.


4.4. Visual Inspection: Any of the following conditions require immediate system shut down and replacement of worn or damaged components:
- Air leakage: Look and listen to see if there are any signs of visual damage to any of the components in the system. Leakage is an indication of worn or damaged components.
- Damaged or degraded components: Look to see if there are any visible signs of wear or component degradation.
- Kinked, crushed, or damaged hoses. Kinked hoses can result in restricted air flow and lead to unpredictable system behavior.
- Any observed improper system or component function: Immediately shut down the system and correct malfunction.
- Excessive dirt build-up: Dirt and clutter can mask potentially hazardous situations.

Caution: Leak detection solutions should be rinsed off after use.

4.5. Routine Maintenance Issues:
- Remove excessive dirt, grime and clutter from work areas.
- Make sure all required guards and shields are in place.

4.6. Functional Test: Before initiating automatic operation, operate the system manually to make sure all required functions operate properly and safely.

4.7. Service or Replacement Intervals: It is the user’s responsibility to establish appropriate service intervals. Valves, FRLs and vacuum products contain components that age, harden, wear, and otherwise deteriorate over time. Environmental conditions can significantly accelerate this process. Valves, FRLs and vacuum components need to be serviced or replaced on routine intervals. Service intervals need to be established based on:
- Previous performance experiences.
- Government and / or industrial standards.
- When failures could result in unacceptable down time, equipment damage or personal injury risk.

4.8. Servicing or Replacing of any Worn or Damaged Parts: To avoid unpredictable system behavior that can cause death, personal injury and property damage:
- Disconnect electrical supply (when necessary) before installation, servicing, or conversion.
- Disconnect air supply and depressurize all air lines connected to system and Pneumatic Division products before installation, service, or conversion.
- Installation, servicing, and / or conversion of these products must be performed by knowledgeable personnel who understand how pneumatic products are to be applied.
- After installation, servicing, or conversions air and electrical supplies (when necessary) should be connected and the product tested for proper function and leakage. If audible leakage is present, or if the product does not operate properly, do not put product or system into use.
- Warnings and specifications on the product should not be covered or painted over. If masking is not possible, contact your local representative for replacement labels.

4.9. Putting Serviced System Back into Operation: Follow the guidelines above and all relevant Installation and Maintenance Instructions supplied with the valve FRL or vacuum component to insure proper function of the system.