74 Series Combination Filter/Regulator and Lubricator Unit, featuring an in-line shut-off valve, and Quikclamp™ system.
EXCELON® Series System Features

Features

The EXCELON® Series, Norgren's premier line of filters, regulators, lubricators, and accessories, is available in 1/4", 3/8", 1/2" or 3/4" pipe sizes. This newest line of Norgren products features a modular design that allows conventional in-line installation using pipe threads, or modular installation using the patented Quikclamp™ System. The one-piece Quikclamp assembly allows installation and removal of EXCELON® Units and Combination Units without breaking a pipe connection.

In-line Installation

We designed the EXCELON® Series so individual products could be installed directly into the air line with threaded connections if desired.

Nitrile or Fluorocarbon Seals

Elastomer seals and diaphragms can be selected for superior compatibility and wear characteristics.

Aesthetic Appearance

External surfaces are protected with a baked on, satin black epoxy paint over a chromate conversion coating, providing excellent corrosion protection and chip resistance. These products have an attractive, contemporary design that will complement the appearance of any OEM equipment.

Durable, Aluminum Construction

The 73 and 74 Series body and metal bowl are manufactured from lightweight, high strength, corrosion resistant aluminum. The 72 Series utilizes zinc, providing high strength and corrosion resistance.

A Wide Range of Options and Accessories

The EXCELON® Series is available with a wide range of options and accessories, including wall and panel mounting brackets, shut-off valves to isolate and exhaust pressure from downstream equipment, porting blocks to provide auxiliary outlets, electrical pressure switches that monitor system pressure, metal bowl or polycarbonate bowl with metal guard, and many more. These options and accessories allow cost-efficient customizing for your specific application.

Performance Tested

The EXCELON® Series provides high flow with minimum pressure losses and the accuracy you expect from Norgren Products.

Quarter Turn Manual Drain and Liquid Level Indicator

The patented quarter turn manual drain and the unique liquid level indicator on metal bowls were designed with the end user in mind. The manual drain is a miniature one-piece ball valve that opens and closes with a quick quarter turn. The threaded outlet provides quick, easy connection of a 1/4" drain line if desired. The liquid level indicator utilizes a high visibility prismatic lens that allows liquid level monitoring up to 30-feet away at angles up to 20°.

Prismatic Lens

Liquid Level Indicator

Nitrile or Fluorocarbon Seals

Elastomer seals and diaphragms can be selected for superior compatibility and wear characteristics.

Durable, Aluminum Construction

The 73 and 74 Series body and metal bowl are manufactured from lightweight, high strength, corrosion resistant aluminum. The 72 Series utilizes zinc, providing high strength and corrosion resistance.

A Wide Range of Options and Accessories

The EXCELON® Series is available with a wide range of options and accessories, including wall and panel mounting brackets, shut-off valves to isolate and exhaust pressure from downstream equipment, porting blocks to provide auxiliary outlets, electrical pressure switches that monitor system pressure, metal bowl or polycarbonate bowl with metal guard, and many more. These options and accessories allow cost-efficient customizing for your specific application.

Performance Tested

The EXCELON® Series provides high flow with minimum pressure losses and the accuracy you expect from Norgren Products.

Quarter Turn Manual Drain and Liquid Level Indicator

The patented quarter turn manual drain and the unique liquid level indicator on metal bowls were designed with the end user in mind. The manual drain is a miniature one-piece ball valve that opens and closes with a quick quarter turn. The threaded outlet provides quick, easy connection of a 1/4" drain line if desired. The liquid level indicator utilizes a high visibility prismatic lens that allows liquid level monitoring up to 30-feet away at angles up to 20°.

Nitrile or Fluorocarbon Seals

Elastomer seals and diaphragms can be selected for superior compatibility and wear characteristics.

Durable, Aluminum Construction

The 73 and 74 Series body and metal bowl are manufactured from lightweight, high strength, corrosion resistant aluminum. The 72 Series utilizes zinc, providing high strength and corrosion resistance.

A Wide Range of Options and Accessories

The EXCELON® Series is available with a wide range of options and accessories, including wall and panel mounting brackets, shut-off valves to isolate and exhaust pressure from downstream equipment, porting blocks to provide auxiliary outlets, electrical pressure switches that monitor system pressure, metal bowl or polycarbonate bowl with metal guard, and many more. These options and accessories allow cost-efficient customizing for your specific application.

Performance Tested

The EXCELON® Series provides high flow with minimum pressure losses and the accuracy you expect from Norgren Products.

Quarter Turn Manual Drain and Liquid Level Indicator

The patented quarter turn manual drain and the unique liquid level indicator on metal bowls were designed with the end user in mind. The manual drain is a miniature one-piece ball valve that opens and closes with a quick quarter turn. The threaded outlet provides quick, easy connection of a 1/4" drain line if desired. The liquid level indicator utilizes a high visibility prismatic lens that allows liquid level monitoring up to 30-feet away at angles up to 20°.

Nitrile or Fluorocarbon Seals

Elastomer seals and diaphragms can be selected for superior compatibility and wear characteristics.

Durable, Aluminum Construction

The 73 and 74 Series body and metal bowl are manufactured from lightweight, high strength, corrosion resistant aluminum. The 72 Series utilizes zinc, providing high strength and corrosion resistance.

A Wide Range of Options and Accessories

The EXCELON® Series is available with a wide range of options and accessories, including wall and panel mounting brackets, shut-off valves to isolate and exhaust pressure from downstream equipment, porting blocks to provide auxiliary outlets, electrical pressure switches that monitor system pressure, metal bowl or polycarbonate bowl with metal guard, and many more. These options and accessories allow cost-efficient customizing for your specific application.

Performance Tested

The EXCELON® Series provides high flow with minimum pressure losses and the accuracy you expect from Norgren Products.

Quarter Turn Manual Drain and Liquid Level Indicator

The patented quarter turn manual drain and the unique liquid level indicator on metal bowls were designed with the end user in mind. The manual drain is a miniature one-piece ball valve that opens and closes with a quick quarter turn. The threaded outlet provides quick, easy connection of a 1/4" drain line if desired. The liquid level indicator utilizes a high visibility prismatic lens that allows liquid level monitoring up to 30-feet away at angles up to 20°.

Nitrile or Fluorocarbon Seals

Elastomer seals and diaphragms can be selected for superior compatibility and wear characteristics.

Durable, Aluminum Construction

The 73 and 74 Series body and metal bowl are manufactured from lightweight, high strength, corrosion resistant aluminum. The 72 Series utilizes zinc, providing high strength and corrosion resistance.

A Wide Range of Options and Accessories

The EXCELON® Series is available with a wide range of options and accessories, including wall and panel mounting brackets, shut-off valves to isolate and exhaust pressure from downstream equipment, porting blocks to provide auxiliary outlets, electrical pressure switches that monitor system pressure, metal bowl or polycarbonate bowl with metal guard, and many more. These options and accessories allow cost-efficient customizing for your specific application.

Performance Tested

The EXCELON® Series provides high flow with minimum pressure losses and the accuracy you expect from Norgren Products.
Module Installation

The EXCELON® modular system provides a unique and time-saving method of connecting and replacing air line products (filters, regulators, lubricators, valves, etc). The heart of the system is the patented Quikclamp - a simple and unique clamping device that holds the various products in rigid combinations. Flanges on the products slide into V Grooves in the Quikclamp. Two face-sealing o-rings provide a positive seal when the clamp is closed and the captive screw is tightened.

Quikclamp Features:
- True one-piece assembly.
- No loose parts - nothing to drop on the floor when replacing a unit.
- The Quikclamp and the EXCELON® Series Products can be installed in 90° increments, providing unmatched versatility in orientation.
- Audible air leak warns of air pressure if the quick release screw is backed off when the unit is pressurized.
- Wall mounting bracket attaches to the back of the Quikclamp, providing quick, easy installation to a panel, wall, or machine surface.
- Other Norgren products can be connected to the EXCELON® Series using Quikclamps and pipe adapters.
- The Quikclamp with mounting bracket will actually hold the Excelon components for you, thus freeing your other hand to tighten or adjust the assembly.
- The 72 Series uses a 3 mm allen wrench, and the 73 and 74 Series use a 5/32” (4 mm) allen wrench.

Quikclamp Modular System shown includes a filter, regulator, lubricator, smooth-start valve, pipe adapters, and wall mounting brackets.
### EXCELON® Series Product Features

#### Filters (General Purpose, Coalescing, and Adsorbing)

**General purpose filters** have a depth-type element with an extra large surface area for extended service life. The elements, available in 5, 25, and 40µm ratings, can be cleaned in soap and water.

**High performance oil removal (coalescing) filters** have a coalescing element that removes solid particles down to 0.01 µm. Maximum remaining oil content of air leaving the filter is 0.01 ppm at 70°F (21°C) with an inlet concentration of 17 ppm.

**Oil vapor removal (adsorbing) filters** have an activated carbon element that acts as an adsorbent in the removal of oil vapors and odors. Maximum remaining oil content of air leaving the filter is 0.003 ppm at 70°F (21°C) when installed with proper prefilters to remove solids and liquids.

**Easy to Service**
Filters can be disassembled for servicing without removal from the air line. The quick release bayonet type bowl can be removed and installed with a quick 1/8 turn. An interlock helps prevent removal when bowl is pressurized.

**Optional Features**
General purpose and oil removal filters are available with manual, semiautomatic (72 Series), or automatic drain, metal bowl with liquid level indicator, transparent bowl (72/73 Series), or transparent bowl with metal guard, and a red/green service life indicator that provides a visual indication of the filter element condition.

#### Regulators

**Easy to Service and Adjust**
Regulator can be disassembled for servicing without removal from the air line. The standard nonrising pressure adjustment knob and the optional T-handle provide easy adjustment at any pressure. Pressure settings are locked by merely pushing on the knob or tightening the T-handle lock nut.

**Balanced Valve Design**
The balanced valve provides superior regulation by reducing the effect of variations in inlet pressure on the outlet pressure.

**Large Area Diaphragm**
The new, large area diaphragm provides excellent sensitivity for a general purpose regulator.

**Optional Features**
Available with or without a pressure gauge, three outlet pressure ranges up to 250 psig (73/74 Series), and relieving or nonrelieving diaphragms. Regulators with a relieving diaphragm reduce the outlet pressure when the pressure setting is reduced, even when the downstream system is dead-ended. Pressure settings on regulators with knob adjustment can be made tamper resistant by the installation of a new tamper resistant shroud.

#### Filter/Regulators

**Easy to Service and Adjust**
Filter/Regulator can be disassembled for cleaning and servicing without removal from the air line. The quick release bayonet type bowl can be removed and installed with a quick 1/8 turn. An interlock helps prevent removal when bowl is pressurized. The depth-type element, which can be cleaned, has an extra large surface area for extended service life. The standard nonrising pressure adjustment knob and the optional T-handle provide easy adjustment at any pressure. Pressure settings are locked by merely pushing down on the knob or tightening the T-handle lock nut.

**Balanced Valve Design**
The balanced valve provides superior regulation by reducing the effect of variations in inlet pressure on the outlet pressure.

**Optional Features**
The filter section is available with manual, automatic, or semiautomatic (72 Series) drain, metal bowl with liquid level indicator, transparent bowl (72/73 Series), or transparent bowl with metal guard, 5, 25, or 40-micron filter element. The regulator section is available with or without a pressure gauge, three outlet pressure ranges up to 250 psig, and a relieving or nonrelieving diaphragm. Filter/Regulators with a relieving diaphragm reduce the outlet pressure when the pressure setting is reduced, even when the downstream system is dead-ended.
EXCELON® Series Product Features

**Lubricators**

**Easy to Service**
Lubricator can be disassembled for servicing without removal from the air line. The quick release bayonet type bowl can be removed and installed with a quick 1/8 turn. An interlock prevents removal when bowl is pressurized. Most working parts are contained in a single, removable capsule. The sight lens optically changes when liquid is present, clearly indicating oil level.

**Micro-Fog® and Oil-Fog®**
Micro-Fog and Oil-Fog configurations are available. Micro-Fog lubricators, identified by a red adjustment, are used for applications containing one or more points of lubrication, cylinders, and multiple or single tools. Oil-Fog lubricators, identified by a green adjustment, are commonly used for lubricating a single air tool, cylinder, or air motor, and are located as near the device as possible.

**Optional Features**
Available with a transparent reservoir (72/73 Series), metal reservoir with liquid level indicator, transparent reservoir with metal guard, 1-quart metal reservoir (74 Series), and a bidirectional Oil-Fog unit (74 Series). The bidirectional unit is designed for use when the lubricator will be located downstream of frequently cycling directional control valves.

**Relief Valve**

**Easy to Service and Adjust**
Relief valve can be disassembled for servicing without removal from the air line. The nonrising pressure adjustment knob provides easy hand adjustment at any pressure range and is locked by merely pushing on the knob.

**Optional Features**
Available with or without a pressure gauge and three relief pressure ranges up to 250 psig (74 Series).

**Shut-Off Valve**
The 3-way EXCELON® Shut-Off Valve, typically attached to the inlet end of a combination unit, is particularly useful for isolating and depressurizing a downstream unit requiring maintenance. These are slide type valves that operate with a quick movement of the slide. The 3-way valve, which is color coded yellow, can be locked only in the closed position. Two-way valves are also available.

**Configurations Available**
The modular EXCELON® Directional Control Valves are available in 2-port/2-position and in 3-port/2-position configurations with solenoid or air operators (74 Series). Smooth start/exhaust valves (72/74 Series), and combination smooth start/exhaust valves with lockout option (74 Series) are also available.

**Connector Options**
A cable grip connector with or without indicator lights and surge protection is available.

**Porting Block**
The modular porting block provides three auxiliary outlets.

**Manifold Block**
The modular manifold block provides manifolding capability for up to three components, allowing the system designer to customize each application.
F72G General Purpose Filter
1/4" and 3/8" Port Sizes

- Excelon design allows in-line or modular installation with other 72, 73, and 74 Series products.


- Highly visible, prismatic liquid level indicator lens

- Optional mechanical service indicator turns from green to red when the filter element needs to be replaced.

- Optional electrical service indicator provides electrical output when the filter element needs to be replaced.

- Quick release bayonet bowl

- Patented quarter turn manual drain

Ordering Information

Standard Models

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Weight (lbs.)</th>
<th>Flow * scfm (dm^3/s)</th>
<th>40µm Element</th>
<th>5µm Element</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; PTF</td>
<td>1.08 (0.49)</td>
<td>50 (24)</td>
<td>F72G-2AN-AL3</td>
<td>F72G-2AN-AL1</td>
</tr>
<tr>
<td>3/8&quot; PTF</td>
<td>1.08 (0.49)</td>
<td>50 (24)</td>
<td>F72G-3AN-AL3</td>
<td>F72G-3AN-AL1</td>
</tr>
</tbody>
</table>

* Approximate flow with 40 µm element at 100 psig (6.2 bar) inlet pressure and 5 psid (0.3 bar) pressure drop.

Options - Select the desired filter from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 76 for additional options.

Optional Threads
- B  ISO Rc taper
- G  ISO G parallel

Optional Service Indicator
- D  With service indicator
- E  With electrical service indicator

Optional Bowl
- D  1.9 oz metal with liquid level indicator*
- W  2.2 oz. transparent with guard

Optional Drain
- Q  1/4 turn manual
- S  Semiautomatic

*Automatic drain not available with “D” bowl option. For other bowl options (shorter and lower 1.9 oz. capacity) consult factory.

Service Kits
- Seal and gasket kit: 4380-500
- Liquid level indicator repair kit: 4380-030
- Filter element, 5µm: 5925-03
- Filter element, 40µm: 5925-02
- Manual drain: 619-50
- Semiautomatic drain: 5379-50
- Automatic drain: 4000-50R

For accessories see pages 72 thru 75.
Technical Data
Fluid: Compressed air
Maximum Pressure –
   Transparent bowl: 150 psig (10 bar)
   Metal bowl: 250 psig (17 bar)
Operating Temperature* –
   Transparent bowl: 0° to 125°F (-18° to 50°C)
   Metal bowl: 0° to 150°F (-18° to 65°C)
*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)
Particle Removal: 5µm or 40µm filter element
Air Quality: Within ISO 8573-1, Class 3 and Class 5
Manual drain connection: 7/16-24 UNS male for 1/4“ tube nut and ferrule
Approximate flow at 90 psig (6.2 bar) inlet pressure and 5 psid (0.3 bar) pressure drop:
   5µm element: 46 scfm (22 dm³/s)
   40µm element: 50 scfm (24 dm³/s)
Semiautomatic drain connection: Push on 5/16” (8mm) ID tube
Semiautomatic drain operating conditions: Pressure operated
   Bowl pressure required to close drain: Greater than 1.5 psig (0.1 bar)
   Bowl pressure required to open drain: Less than 1.5 psig (0.1 bar)
   Minimum air flow required to close drain: 1 scfm (0.5 dm³/s)
   Manual operation: Lift stem to drain bowl
Automatic drain connection: Accepts 1/8 PTF and ISO R1/8
Automatic drain operating conditions: Float operated
   Bowl pressure required to close drain: Greater than 5 psig (0.3 bar)
   Bowl pressure required to open drain: Less than 3 psig (0.2 bar)
   Minimum air flow required to close drain: 0.2 scfm (0.1 dm³/s)
   Manual operation: Depress pin inside drain outlet to drain bowl

NOTE
Water vapor will pass through these units and could condense into liquid form downstream as air temperature drops. Install a Norgren air dryer if water condensation could have a detrimental effect on the application.

Materials
Body: Zinc
Bowl –
   Transparent: Polycarbonate
   Transparent with guard: Polycarbonate, Zinc guard
   Metal: Zinc
Metal Bowl Liquid Level Indicator Lens: Transparent nylon
Element: Sintered polypropylene
Elastomers: Neoprene & nitrile
Optional Service Indicator –
   Body: Transparent nylon
   Internal parts: Acetal
   Spring: Stainless steel
   Elastomers: Nitrile

Dimensions in Inches (mm)
* Add 1.7” (43) for semiautomatic drain.
** Add 1.97” (50) for semiautomatic drain, and 0.28” (7) for 1/4 turn manual drain.

Performance Characteristics
Flow Curve, F72G
Port Size: 1/4”

---

Optional Service Indicator

---

Optional Service Indicator

---

2.2 ounce bowl with automatic drain

---

1.9 ounce bowl with 1/4 turn manual drain.
F73G General Purpose Filter

1/4", 3/8", 1/2" Port Sizes

- Excelon design allows in-line or modular installation with other 72, 73, and 74 Series products.
- Highly visible, prismatic liquid level indicator lens
- Optional mechanical service indicator turns from green to red when the filter element needs to be replaced.
- Optional electrical service indicator provides electrical output when the filter element needs to be replaced.
- Quick release bayonet bowl
- Patented quarter turn manual drain

Ordering Information

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Weight (lbs. (kg))</th>
<th>Flow* (scfm (dm³/s))</th>
<th>Model Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>1.1 (0.50)</td>
<td>62 (29)</td>
<td>F73G-2AN-AD3</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>1.1 (0.50)</td>
<td>75 (35)</td>
<td>F73G-3AN-AD3</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>1.1 (0.50)</td>
<td>80 (38)</td>
<td>F73G-4AN-AD3</td>
</tr>
</tbody>
</table>

* Approximate flow with 40 µm element at 100 psig (6.2 bar) inlet pressure and 5 psid (0.3 bar) pressure drop.

Options
- Select the desired filter from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 76 for additional options.

ISO Symbols

- Automatic Drain
- Manual Drain

Operation

For accessories see pages 72 thru 75.

Service Kits
- Seal and gasket kit: 4380-600
- Liquid level indicator repair kit: 4380-020
- Filter element, 5µm: 4438-01
- Filter element, 40µm: 4438-03
- Manual drain: 619-50
- Automatic drain: 4000-51R
Technical Data
Fluid: Compressed air
Maximum pressure –
  Transparent bowl: 150 psig (10 bar)
  Metal bowl: 250 psig (17 bar)
Operating temperature* –
  Transparent bowl: 0° to 125°F (-20° to 50°C)
  Metal bowl: 0° to +175°F (-20° to +80°C)
*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C.)
Typical flow with a 40µm element at 90 psig (6.3 bar) inlet pressure and 7 psig (0.5 bar) pressure drop: 75 scfm (35 dm³/s)
Particle removal: 5µm, 25µm, or 40µm filter element
Air quality: Within ISO 8573-1, Class 3 and Class 5 (particulates)
Manual drain connection: 7/16-24 UNS male for 1/4” tube nut and ferrule
Automatic drain connection: Accepts 1/8 PTF and ISO R1/8
Automatic drain operating conditions: Float operated
  Bowl pressure required to close drain: Greater than 5 psig (0.3 bar)
  Bowl pressure required to open drain: Less than 3 psig (0.2 bar)
  Minimum air flow required to close drain: 0.2 scfm (0.1 dm³/s)
  Manual operation: Depress pin inside drain outlet to drain bowl
Materials
Body: Aluminum
Bowl:
  Transparent: Polycarbonate
  Transparent with guard: Polycarbonate, steel guard
  Metal: Aluminum
  Metal bowl liquid level indicator lens: Transparent nylon
Element: Sintered polypropylene
Elastomers: Neoprene and nitrile
Mechanical service indicator materials:
  Body: Transparent nylon
  Internal parts: Acetal
  Spring: Stainless steel
  Elastomers: Nitrile

Dimensions in Inches (mm)
* Minimum clearance required to remove bowl.
F74G General Purpose Filter
3/8", 1/2", 3/4" Port Sizes

- Excelon design allows in-line or modular installation with other 72, 73, and 74 Series products.
- Highly visible, prismatic liquid level indicator lens
- Optional mechanical service indicator turns from green to red when the filter element needs to be replaced.
- Optional electrical service indicator provides electrical output when the filter element needs to be replaced.
- Quick release bayonet bowl
- Patented quarter turn manual drain

Ordering Information

Standard Models

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Weight (lbs. (kg))</th>
<th>Flow * (scfm (dm³/s))</th>
<th>40µm Element.</th>
<th>5µm Element.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>1.82 (0.83)</td>
<td>120 (57)</td>
<td>F74G-3AN-AD3</td>
<td>F74G-3AN-AD1</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>1.79 (0.81)</td>
<td>150 (71)</td>
<td>F74G-4AN-AD3</td>
<td>F74G-4AN-AD1</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>1.75 (0.79)</td>
<td>150 (71)</td>
<td>F74G-6AN-AD3</td>
<td>F74G-6AN-AD1</td>
</tr>
</tbody>
</table>

* Approximate flow with 40 µm element at 100 psig (6.9 bar) inlet pressure and 5 psid (0.3 bar) pressure drop.

Options - Select the desired filter from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 76 for additional options.

ISO Symbols

Automatic Drain
Manual Drain

Operation

Optional Threads
- B ISO Rc taper
- G ISO G parallel

Optional Service Indicator
- D With service indicator
- E With electrical service indicator

Service Kits
- Seal and gasket kit: 4380-700
- Liquid level indicator repair kit: 4380-050
- Filter element, 5µm: 4338-04
- Filter element, 40µm: 4338-05
- Manual drain: 619-50
- Automatic drain: 3000-10

For accessories see pages 72 thru 75.
**Technical Data**

Fluid: Compressed air  
Maximum inlet pressure –  
  Transparent bowl: 150 psig (10.3 bar)  
  Metal bowl: 250 psig (17.2 bar)  
Operating temperature* –  
  Transparent bowl: 0° to 125°F (-18° to 50°C)  
  Metal bowl: 0° to 175°F (-18° to 79°C)  
*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)  
Particle removal: 5µm, 25µm, or 40µm filter element  
Air quality: Within ISO 8573-1, Class 3 and Class 5 (particulates)  
Automatic drain connection: Accepts 1/8 PTF  
Automatic drain operating conditions: Float operated  
  Bowl pressure required to close drain: Greater than 5 psig (0.3 bar)  
  Bowl pressure required to open drain: Less than 3 psig (0.2 bar)  
  Minimum air flow required to close drain: 2.0 scfm (1.0 dm³/s)  
Manual operation: Depress pin inside drain outlet to drain bowl.

**NOTE**

Water vapor will pass through these units and could condense into liquid form downstream as air temperature drops. Install a Norgren air dryer if water condensation could have a detrimental effect on the application.

**Materials**

Body: Aluminum  
Bowl –  
  Transparent: Polycarbonate with zinc bowl guard  
  Metal: Aluminum  
Metal bowl liquid level indicator lens: Transparent nylon  
Element: Sintered polypropylene  
Elastomers: Nitrile and neoprene  
Optional service indicator –  
  Body: Transparent nylon  
  Internal parts: Acetal  
  Spring: Stainless steel  
  Elastomers: Nitrile

Dimensions in Inches (mm)  
* Minimum clearance required to remove bowl.

![Flow Curve, F74G](image)

Flow Curve, F74G  
Port Size: 1/2"  
Pressure Drop  
Inlet Pressure  
Port Size: 1/2"  
Flow Curve, F74G  
Port Size: 1/2"  
Pressure Drop  
Inlet Pressure  
Port Size: 1/2"
Excelon design allows in-line or modular installation with other 72, 73, and 74 Series products.

High efficiency particle and oil removal, within ISO 8573-1: Class 1.-.2. See Technical Data.

Highly visible, prismatic liquid level indicator lens.

Patented quarter turn manual drain.

Standard mechanical service indicator turns from green to red when the filter element needs to be replaced.

Optional electrical service indicator provides electrical output when the filter element needs to be replaced.

Quick release bayonet bowl.

Patented quarter turn manual drain.

Ordering Information

### Standard Models

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Flow* Saturated</th>
<th>Flow* Dry</th>
<th>Model Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size PTF</td>
<td>Weight (lbs. (kg))</td>
<td>Element scfm (dm³/s)</td>
<td>Element scfm (dm³/s)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>0.88 (0.40)</td>
<td>10.5 (4.4)</td>
<td>16 (8)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>0.88 (0.40)</td>
<td>10.5 (4.4)</td>
<td>23 (11)</td>
</tr>
</tbody>
</table>

*Approximate flow at 100 psig (6.3 bar) inlet pressure and 3.0 psid (0.2 bar) pressure drop. Dry flows good only for systems with all oil, water, and other aerosols removed.

**Options** - Select the desired filter from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 77 for additional options.

**Standard Service Indicator**

- N Without service indicator
- E With electrical service indicator

**Optional Threads**

- B ISO Rc taper
- G ISO G parallel

**Optional Drain**

- Q 1/4 turn manual
- S Semiautomatic

**Optional Bowl**

- D 1.9 oz. metal with liquid level indicator*
- W 2.2 oz. transparent with guard

*Automatic drain not available with “D” bowl option. For other bowl options (shorter and lower 1.9 oz. capacity) consult factory.

**Service Kits**

- Seal and gasket kit: 4380-500
- Liquid level indicator repair kit: 4380-030
- Filter element, (coalescing): 5925-09
- Manual drain: 619-50
- Semiautomatic drain: 5379-50
- Automatic drain: 4000-50R

**NOTE**

For maximum service life, install a general purpose filter with a 5µm element upstream of the oil removal filter.
**Technical Data**

Fluid: Compressed air  
Maximum Pressure –  
  Transparent bowl: 150 psig (10 bar)  
  Metal bowl: 250 psig (17 bar)  
Operating Temperature* –  
  Transparent bowl: 0° to 125°F (-18° to 50°C)  
  Metal bowl: 0° to 150°F (-18° to 65°C)  
*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).  
Particle removal down to 0.01 µm.  
Air quality: Within ISO 8573-1, Class 1 (particulates) and Class 2 (oil content)  
Maximum remaining oil aerosol content of air leaving the filter: 0.01 ppm at 70° F (21°C) with an inlet concentration of 17 ppm.  
Approximate flow at 90 psig (6.3 bar) inlet pressure:  
  Saturated element: 10.5 scfm (4.4 dm³/s) at 3 psid (0.2 bar) pressure drop  
  Dry element: 23 scfm (11 dm³/s) at 5 psid (0.3 bar) pressure drop **  
**Dry flows apply only when all oil, water, and other aerosols are removed.  
Manual Drain Thread: 7/16-24 UNS for 1/4" tube nut and ferrule  
Semiautomatic Drain Connection: Push on 5/16" (8mm) ID tube  
Semiautomatic drain operating conditions: Pressure operated  
  Bowl pressure required to close drain: Greater than 1.5 psig (0.1 bar)  
  Bowl pressure required to open drain: Less than 1.5 psig (0.1 bar)  
  Minimum air flow required to close drain: 1 scfm (0.5 dm³/s)  
  Manual operation: Lift stem to drain bowl  
Automatic drain connection: Accepts 1/8PTF and ISO R1/8  
Automatic drain operating conditions: Float operated  
  Bowl pressure required to close drain: Greater than 5 psig (0.3 bar)  
  Bowl pressure required to open drain: Less than 3 psig (0.2 bar)  
  Minimum air flow required to close drain: 0.2 scfm (0.1 dm³/s)  
  Manual operation: Depress pin inside drain outlet to drain bowl  

**Materials**

Body: Zinc  
Bowl –  
  Transparent: Polycarbonate  
  Transparent with guard: Polycarbonate, Zinc guard  
  Metal: Zinc  
Metal Bowl Liquid Level Indicator Lens: Transparent nylon  
Element: Synthetic fiber and polyurethane foam  
Elastomers: Neoprene & nitrile  
Service Indicator –  
  Body: Transparent nylon  
  Internal parts: Acetal  
  Spring: Stainless steel  
  Elastomers: Nitrile  

**Performance Characteristics**

Flow Curve, F72C (Oil Removal)  
Port Size: 1/4"  
Filter Element: Coalescing, Saturated  

Flow Curve, F72C (Particle Removal)  
Port Size: 1/4"  
Filter Element: Coalescing, Dry

Dimensions in Inches (mm)  
* Add 1.7” (43) for semiautomatic drain.  
** Add 1.97” (50) for semiautomatic drain, and 0.28” (7) for 1/4 turn manual drain.
**F73C Oil Removal Filter**

1/4", 3/8", 1/2" Port Sizes

- Excelon design allows in-line or modular installation with other 72, 73, and 74 Series products.
- High efficiency particle and oil removal, within ISO 8573-1: Class 1.-.2. See Technical Data.
- Highly visible, prismatic liquid level indicator lens.
- Patented quarter turn manual drain.
- Standard mechanical service indicator turns from green to red when the filter element needs to be replaced.
- Optional electrical service indicator provides electrical output when the filter element needs to be replaced.
- Quick release bayonet bowl.
- Patented quarter turn manual drain.

### Ordering Information

#### Standard Models

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Weight (lbs. (kg))</th>
<th>Flow* Saturated Element (scfm (dm³/s))</th>
<th>Flow* Dry Element (scfm (dm³/s))</th>
<th>Model Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>1.2 (0.54)</td>
<td>21.2 (10.0)</td>
<td>28 (13)</td>
<td>F73C-2AD-AD0</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>1.2 (0.54)</td>
<td>21.2 (10.0)</td>
<td>34 (16)</td>
<td>F73C-3AD-AD0</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>1.2 (0.54)</td>
<td>21.2 (10.0)</td>
<td>37 (17)</td>
<td>F73C-4AD-AD0</td>
</tr>
</tbody>
</table>

*Approximate flow at 100 psig (6.3 bar) inlet pressure and 3.0 psid (0.2 bar) pressure drop. Dry flows good only for systems with all oil, water, and other aerosols removed.

#### Options
- Select the desired filter from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see **Product Numbering Chart** on page 77 for additional options.

#### ISO Symbols

- Automatic Drain
- Manual Drain

#### Operation

- Optional Bowl
  - T Transparent
  - P Transparent with guard
- Optional Drain
  - Q 1/4 turn manual

#### Service Kits
- Seal and gasket kit: 4380-602
- Liquid level indicator repair kit: 4380-020
- Filter element, (coalescing): 4444-01
- Manual drain: 619-50
- Automatic drain: 4000-51R

**NOTE**

For maximum service life, install a general purpose filter with a 5µm element upstream of the oil removal filter.

For accessories see pages 72 thru 75.
Technical Data

Fluid: Compressed air

Maximum pressure –
- Transparent bowl: 150 psig (10 bar)
- Metal bowl: 250 psig (17 bar)

Operating temperature* –
- Transparent bowl: 0° to 125°F (-20° to 50°C)
- Metal bowl: 0° to 150°F (-20° to 65°C)

*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Maximum flow for 3/8” ported filters at 90 psig (6.3 bar) inlet pressure to maintain consistent oil removal performance: 21.2 scfm (10 dm³/s).

Particle removal down to 0.01 µm.

Air quality: Within ISO 8573-1, Class 1 (particulates) and Class 2 (oil content)

Maximum remaining oil aerosol content of air leaving the filter: 0.01 ppm at 70°F (21°C) with an inlet concentration of 17 ppm.

Manual drain connection: 7/16-24 UNS male for 1/4” tube nut and ferrule

Automatic drain connection: Accepts 1/8 PTF and ISO R1/8

Automatic drain operating conditions: Float operated
- Bowl pressure required to close drain: Greater than 5 psig (0.3 bar)
- Bowl pressure required to open drain: Less than 3 psig (0.2 bar)
- Minimum air flow required to close drain: 0.2 scfm (0.1 dm³/s)
- Manual operation: Depress pin inside drain outlet to drain bowl

Recommended prefilter: General purpose filter with a 5µm element

Materials

Body: Aluminum
Bowl:
- Transparent: Polycarbonate
- Transparent with guard: Polycarbonate, steel guard
- Metal: Aluminum
Metal bowl liquid level indicator lens: Transparent nylon
Element: Synthetic fiber and polyurethane foam
Elastomers: Neoprene and nitrile

Mechanical service indicator materials:

Body: Transparent nylon
Internal parts: Acetal
Spring: Stainless steel
Elastomers: Nitrile

Dimensions in Inches (mm)
* Minimum clearance required to remove bowl.
F74C and F74H Oil Removal Filters
3/8", 1/2", 3/4" Port Sizes

- Excelon design allows in-line or modular installation with other 72, 73, and 74 Series products.
- High efficiency particle and oil removal, within ISO 8573-1: Class 1.-.2. See Technical Data.
- Highly visible, prismatic liquid level indicator lens.
- Patented quarter turn manual drain.
- Standard mechanical service indicator turns from green to red when the filter element needs to be replaced.
- Optional electrical service indicator provides electrical output when the filter element needs to be replaced.
- Quick release bayonet bowl.
- Patented quarter turn manual drain.

Ordering Information

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Body and Weight</th>
<th>Flow * Saturated Element</th>
<th>Flow * Dry Element</th>
<th>Model Numbers - Service life indicator, automatic drain, metal bowl with liquid level indicator.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot; PTF</td>
<td>Standard 1.88 (0.85) 20 (7) 70 (33)</td>
<td>F74C-3AD-AD0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2&quot; PTF</td>
<td>Standard 1.84 (0.83) 35 (17) 75 (35)</td>
<td>F74C-4AD-AD0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2&quot; PTF</td>
<td>High Flow 2.45 (1.11) 60 (28) 100 (47)</td>
<td>F74H-4AD-AD0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4&quot; PTF</td>
<td>High Flow 2.40 (1.10) 60 (28) 120 (57)</td>
<td>F74H-6AD-AD0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*= Approximate flow at 100 psig (6.9 bar) inlet pressure and 5.0 psid (0.3 bar) pressure drop. Dry flows good only for systems with all oil, water, and other aerosols removed.

Options - Select the desired filter from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 77 for additional options.

For maxium service life, install a general purpose filter with a 5µm element upstream of the oil removal filter.
Technical Data

Fluid: Compressed air

Maximum inlet pressure –
- Transparent bowl: 150 psig (10.3 bar)
- Metal bowl: 250 psig (17.2 bar)

Operating temperature –
- Transparent bowl: 0° to 125°F (-18° to 52°C)
- Metal bowl: 0° to 150°F (-18° to 70°C)

Air Quality: Within ISO 8573-1, Class 1.-2.

Particle removal down to 0.01 µm.

Maximum remaining oil aerosol content of air leaving the filter: 0.01 ppm at 70°F (21°C) with an inlet concentration of 17 ppm.

Manual drain connection: 7/16-24 UNS male (for 1/4" tube nut and ferrule)

Automatic drain connection: Accepts 1/8 PTF

Automatic drain operating conditions: Float operated

Bowl pressure required to close drain: Greater than 5 psig (0.3 bar)

Bowl pressure required to open drain: Less than 3 psig (0.2 bar)

Minimum air flow required to close drain: 2.0 scfm (1.0 dm³/s)

Manual operation: Depress pin inside drain outlet to drain bowl.

Maximum pressure drop across filter for efficient operation: 10 psid (0.69 bar)

NOTE
Water vapor and oil vapor will pass through these filters and could condense into liquid form downstream as air temperature drops. Install a Norgren air dryer and oil vapor removal filter if water and oil vapor could have a detrimental effect on the application.

Materials

Body: Aluminum

Bowl –
- Transparent: Polycarbonate with zinc bowl guard
- Metal: Aluminum

Metal bowl liquid level indicator lens: Transparent nylon

Element: Synthetic fiber and polyurethane foam

Elastomers: Nitrile and neoprene

Service indicator –
- Body: Transparent nylon
- Internal Parts: Acetal
- Spring: Stainless steel
- Elastomers: Nitrile

Dimensions in inches (mm)
* Minimum clearance required to remove bowl.

---

Performance Characteristics

Saturated Elements

Flow Curve, F74C (Standard Element for Oil Removal)
Port Size: 1/2"
Filter Element: Coalescing, Saturated

<table>
<thead>
<tr>
<th>Inlet Pressure psig bar</th>
<th>15</th>
<th>25</th>
<th>40</th>
<th>60</th>
<th>90</th>
<th>120</th>
<th>150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Drop psid</td>
<td>1.4</td>
<td>2.2</td>
<td>2.9</td>
<td>4.1</td>
<td>5.6</td>
<td>8.4</td>
<td>10.3</td>
</tr>
</tbody>
</table>

Flow Curve, F74H (High Flow Element for Oil Removal)
Port Size: 1/2"
Filter Element: Coalescing, Saturated

<table>
<thead>
<tr>
<th>Inlet Pressure psig bar</th>
<th>15</th>
<th>25</th>
<th>40</th>
<th>60</th>
<th>90</th>
<th>120</th>
<th>150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Drop psid</td>
<td>1.2</td>
<td>2.0</td>
<td>2.8</td>
<td>4.1</td>
<td>5.6</td>
<td>8.4</td>
<td>10.3</td>
</tr>
</tbody>
</table>

Dry Elements

Flow Curve, F74C (Standard Element for Particle Removal)
Port Size: 1/2"
Filter Element: Coalescing, Dry

<table>
<thead>
<tr>
<th>Inlet Pressure psig bar</th>
<th>15</th>
<th>25</th>
<th>40</th>
<th>60</th>
<th>90</th>
<th>120</th>
<th>150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Drop psid</td>
<td>1.0</td>
<td>2.3</td>
<td>2.8</td>
<td>4.1</td>
<td>5.6</td>
<td>8.4</td>
<td>10.3</td>
</tr>
</tbody>
</table>

Flow Curve, F74H (High Flow Element for Particle Removal)
Port Size: 1/2"
Filter Element: Coalescing, Dry

<table>
<thead>
<tr>
<th>Inlet Pressure psig bar</th>
<th>15</th>
<th>25</th>
<th>40</th>
<th>60</th>
<th>90</th>
<th>120</th>
<th>150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Drop psid</td>
<td>0.8</td>
<td>2.0</td>
<td>2.8</td>
<td>4.1</td>
<td>5.6</td>
<td>8.4</td>
<td>10.3</td>
</tr>
</tbody>
</table>
F74V Oil Vapor Removal Filters

3/8", 1/2", and 3/4" Port Sizes

- Excelon design allows in-line or modular installation with other 72, 73, and 74 Series products.
- Activated carbon cartridge filter element adsorbs oil vapors and removes most hydrocarbon odors.
- Filter and element design optimizes air velocity and contact time to reduce oil content of air leaving the filter to 0.003 ppm at 70°F (21°C). See NOTE at bottom of page.
- Long service life of carbon cartridge element.
- F74C and F74V combinations provide air quality within ISO 8573-1: Class 1.-.1.
- Quick release bayonet bowl.

Ordering Information

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Weight Flow * (lbs. (kg))</th>
<th>Model Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>2.54 (1.15)</td>
<td>F74V-3AN-EMA</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>2.51 (1.14)</td>
<td>F74V-4AN-EMA</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>2.46 (1.12)</td>
<td>F74V-6AN-EMA</td>
</tr>
</tbody>
</table>

* Approximate flow at 100 psig (6.9 bar) inlet pressure and 5 psid (0.3 bar) pressure drop.

Options - Select the desired filter from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 78 for additional options.

ISO Symbols

Closed Bottom

Operation

Optional Threads

B ISO Rc taper
G ISO G parallel

Service Kits

Seal and gasket kit: 4380-750
Filter element: 4341-01

NOTE

Oil vapor removal filters must be protected upstream by an oil removal filter. Select a NORGREN oil removal filter with equivalent pipe size and flow capacity equal to or greater than the vapor removal filter. See p. 16 for F74C filter.

For accessories see pages 72 thru 75.
### Technical Data

**Fluid:** Compressed air  
**Maximum inlet pressure:** 250 psig (17.2 bar)  
**Operating temperature:** 0° to 150°F (-18° to 66°C)  
**Maximum pressure drop across filter for efficient operation:** 10 psid (0.69 bar)

### Materials

- **Body:** Aluminum  
- **Bowl:** Aluminum  
- **Element:** Activated carbon and aluminum  
- **Elastomers:** Nitrile and neoprene

### Performance Characteristics

**Flow Curve, F74V**  
**Port Size:** 1/2"  
**Filter Element:** Adsorbing

#### Technical Specifications

**Fluid:** Compressed air  
**Maximum inlet pressure:** 250 psig (17.2 bar)  
**Operating temperature:** 0° to 150°F (-18° to 66°C)  
**Maximum pressure drop across filter for efficient operation:** 10 psid (0.69 bar)

### Materials

- **Body:** Aluminum  
- **Bowl:** Aluminum  
- **Element:** Activated carbon and aluminum  
- **Elastomers:** Nitrile and neoprene

---

**Dimensions in Inches (mm)**

*Minimum clearance required to remove bowl.*

---

The image contains a diagram and a table, showing the performance characteristics of the filter, including flow rates and pressure drops under different conditions.
• Excelon design allows in-line or modular installation with other 72, 73, and 74 Series products.

• Balanced valve design minimizes effect of variation in the inlet pressure on the outlet pressure.

• Standard relieving models allow reduction of downstream pressure when the system is dead-ended. Non-relieving models optional.

• Push to lock adjusting knob with tamper resistant accessory.

• High flow capacity with full flow gauge ports.

• Reverse flow models available for use in applications where air must be exhausted back through the regulator (i.e., downstream of cycling valves).

• Manifolding models typically allow up to six regulators to be connected without a booster signal.

Ordering Information

Standard Models

<table>
<thead>
<tr>
<th>Port</th>
<th>Size</th>
<th>Weight</th>
<th>Knob Adjustment</th>
<th>Knob Adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>PTF</td>
<td>lbs. (kg)</td>
<td>Range*</td>
<td>Range*</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>0.79 (0.36)</td>
<td>5 to 60 psig (0.3 to 4 bar)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>0.79 (0.36)</td>
<td>5 to 150 psig (0.3 to 10 bar)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Do not use these regulators to control pressures outside of the specified ranges.

Options - Select the desired regulator from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 79 for additional options.

Flow Type
- G Standard
- R Reverse
- M Manifold

Optional Threads
- B ISO Rc taper
- G ISO G parallel

Optional Adjustment
- T T-handle

Service Kits
- Relieving – 4381-500
- Nonrelieving – 4381-501

R72G - Standard Gauge
- N Without gauge

Optional Diaphragm
- N Nonrelieving

ISO Symbols

Relieving
Nonrelieving

Operation

For accessories see pages 72 thru 75.
Technical Data
Fluid: Compressed air
Maximum Pressure: 300 psig (20 bar)
Operating Temperature*: 0°F to 150°F (-18°C to 65°C)
*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).
Approximate flow of 75 scfm (35.4dm³/s) at 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a drop of 15 psig (1 bar) from set.
Gauge Ports:
1/8" PTF with PTF main ports
1/8" ISO Rc with ISO Rc main ports
1/8" ISO Rc with ISO G main ports

Materials
Body: Zinc
Bonnet: Acetal
Valve: Brass
Elastomers: Nitrile
Bottom Plug: Acetal

Dimensions in Inches (mm)
Panel mounting hole diameter: 1.57” (40 mm)
Panel thickness: 0.16” (4 mm) maximum

Performance Characteristics

Manifold Regulators

Typical Manifold Regulator Application
● Excelon design allows in-line or modular installation with other 72, 73, and 74 Series products.

● Balanced valve design minimizes effect of variation in the inlet pressure on the outlet pressure.

● Standard relieving models allow reduction of downstream pressure when the system is dead-ended. Non-relieving models optional.

● Push to lock adjusting knob with tamper resistant accessory.

● High flow capacity with full flow gauge ports.

● Reverse flow models available for use in applications where air must be exhausted back through the regulator (i.e., downstream of cycling valves).

### Ordering Information

<table>
<thead>
<tr>
<th>Standard Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Numbers - Relieving diaphragm, with gauge.</td>
</tr>
<tr>
<td>Outlet Pressure Adjustment Range*, unidirectional flow</td>
</tr>
<tr>
<td>Port Size</td>
</tr>
<tr>
<td>Size</td>
</tr>
<tr>
<td>1/4&quot;</td>
</tr>
<tr>
<td>3/8&quot;</td>
</tr>
<tr>
<td>1/2&quot;</td>
</tr>
</tbody>
</table>

* Do not use these regulators to control pressures outside of the specified ranges.

**Options** - Select the desired regulator from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 79 for additional options.

**Flow Type**
- G Standard
- R Reverse

**Optional Threads**
- B ISO Rc taper
- G ISO G parallel

**Optional Adjustment**
- T T-handle

**Service Kits**
- Relieving – 4381-600
- Nonrelieving – 4381-601

For accessories see pages 72 thru 75.
Technical Data
Fluid: Compressed air
Maximum pressure: 300 psig (20 bar)
Operating temperature*: 0° to 175°F (-20° to 80°C)
*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).
Approximate flow at 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a drop of 15 psig (1 bar) from set: 127 scfm (60 dm³/s)
Gauge ports:
1/4 PTF with PTF main ports
ISO Rc1/4 with ISO Rc main ports
ISO Rc1/8 with ISO G main ports

Materials
Body: Aluminum
Bonnet: Aluminum
Valve: Brass
Elastomers: Nitrile
Bottom plug: Acetal

Dimensions in Inches (mm)
Panel mounting hole diameter: 1.89" (48 mm)
Panel thickness: 0.06" to 0.25" (2 to 6 mm)
R74G Pressure Regulators

3/8", 1/2" and 3/4" Port Sizes

- Excelon design allows in-line or modular installation with other 72, 73, and 74 Series products.
- Balanced valve design minimizes effect of variation in the inlet pressure on the outlet pressure.
- Standard relieving models allow reduction of downstream pressure when the system is dead-ended. Non-relieving models optional.
- Push to lock adjusting knob with tamper resistant accessory.
- High flow capacity with full flow gauge ports.
- Reverse flow models available for use in applications where air must be exhausted back through the regulator (i.e., downstream of cycling valves).

Ordering Information

Standard Models

<table>
<thead>
<tr>
<th>Size</th>
<th>Weight</th>
<th>Knob Adjustment</th>
<th>Knob Adjustment</th>
<th>T-Handle Adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port</td>
<td>PTF</td>
<td>5 to 60 psig</td>
<td>5 to 150 psig</td>
<td>10 to 250 psig **</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>1.80</td>
<td>(0.3 to 4 bar)</td>
<td>(0.3 to 10 bar)</td>
<td>(0.7 to 16 bar)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>1.77</td>
<td>(0.3 to 4 bar)</td>
<td>(0.3 to 10 bar)</td>
<td>(0.7 to 16 bar)</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>1.73</td>
<td>(0.3 to 4 bar)</td>
<td>(0.3 to 10 bar)</td>
<td>(0.7 to 16 bar)</td>
</tr>
</tbody>
</table>

* Do not use these regulators to control pressures outside of the specified ranges.
** Regulators with the 250 psig spring are not available with the knob adjustment.

Options - Select the desired regulator from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 79 for additional options.

ISO Symbols

Relieving
Nonrelieving

Operation

Optional Flow
R Reverse flow

Optional Threads
B ISO Rc taper
G ISO G parallel

Optional Adjustment
T T-handle

Standard Gauge
N Without gauge

Optional Diaphragm
N Nonrelieving

Service Kits
Seal and gasket kit for relieving regulators : 4381-700
Seal and gasket kit for nonrelieving regulators : 4381-701

For accessories see pages 72 thru 75.
Technical Data
Fluid: Compressed air
Maximum inlet pressure: 300 psig (20.7 bar)
Operating temperature*: 0° to 175°F (-18° to 79°C).
*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).
Approximate flow at 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure
and a drop of 15 psig (1 bar) from set: 225 scfm (106 dm³/s)
Gauge ports:
1/4" PTF with PTF main ports.
1/4" ISO Rc with ISO Rc main ports.
1/8" ISO Rc with ISO G main ports.
Materials
Body: Aluminum
Bonnet: Aluminum
Valve: Brass
Elastomers: Nitrile
Bottom Plug: Acetal

Dimensions in Inches (mm)
Panel mounting hole diameter: 2.06" (52mm)
Panel thickness: 0.06" to 0.25" (2 to 6 mm)
**B72G General Purpose Filter/Regulator**

*1/4" and 3/8" Port Sizes*

- Excelon design allows in-line or modular installation with other 72, 73, and 74 Series products.
- Combines the functions of a filter and pressure regulator into one compact, space saving unit.
- High efficiency water and particle removal.
- Highly visible, prismatic liquid level indicator lens
- Quick release bayonet bowl
- Balanced valve design minimizes effect of variation in the inlet pressure on the outlet pressure
- Standard relieving models allow reduction of downstream pressure when the system is dead-ended. Non-relieving models options.
- High flow capacity with full flow gauge ports
- Low torque, non-rising pressure adjustment knob or sturdy T-handle provide easy hand adjustment at any pressure. The knob has an integral locking device which can be made tamper resistant with the addition of a tamper resistant kit.

### Ordering Information

#### Standard Models

<table>
<thead>
<tr>
<th>Model Numbers - Automatic drain, knob adjustment, 2.2 oz. transparent bowl without guard, 40µm element, relieving diaphragm.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port</td>
</tr>
<tr>
<td>---</td>
</tr>
<tr>
<td>PTF</td>
</tr>
<tr>
<td>1/4&quot;</td>
</tr>
<tr>
<td>3/8&quot;</td>
</tr>
</tbody>
</table>

*Do not use these filter/regulators to control pressures outside of the specified ranges.

#### Options

- Select the desired filter/regulator from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see **Product Numbering Chart** on page 80 for additional options.

#### ISO Symbols

- Automatic, and Semiautomatic Drain, Relieving
- Manual Drain, Relieving
- Automatic, and Semiautomatic Drain, Nonrelieving
- Manual Drain, Nonrelieving

#### Operation

*Auto drain not available with “D” bowl option. For other bowl options (shorter and lower 1.9 oz. capacity) consult factory.*

#### Service Kits

- Seal and gasket kit for relieving filter/regulators: 4383-500
- Seal and gasket kit for nonrelieving filter/regulators: 4380-501
- Liquid level indicator repair kit: 4380-030
- Filter element, 5µm: 5925-03
- Filter element, 40µm: 5925-02
- Manual drain: 619-50
- Semiautomatic drain: 5379-50
- Automatic drain: 4000-50R

*For accessories see pages 72 thru 75.*
Technical Data
Fluid: Compressed air
Maximum Inlet Pressure –
  Transparent bowl: 150 psig (10 bar)
  Metal bowl: 250 psig (17 bar)
Operating Temperature* –
  Transparent bowl: 0° to 125°F (-18° to 50°C)
  Metal bowl: 0° to 150°F (-18° to 65°C)
*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).
Air Quality: Within ISO 8573-1, Class 3 and Class 5
Approximate flow at 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a drop of 15 psig (1 bar) from set: 80 scfm (38 dm³/s)
Manual drain connection: 7/16-24 UNS male for 1/4” tube nut and ferrule
Semiautomatic drain connection: Push on 5/16” (8mm) ID tube
Semiautomatic drain operating conditions: Pressure operated
  Bowl pressure required to close drain: Greater than 1.5 psig (0.1 bar)
  Bowl pressure required to open drain: Less than 1.5 psig (0.1 bar)
  Minimum air flow required to close drain: 1 scfm (0.5 dm³/s)
  Manual operation: Lift stem to drain bowl
Automatic drain connection: Accepts 1/8PTF and ISO R1/8
Automatic drain operating conditions: Float operated
  Bowl pressure required to close drain: Greater than 5 psig (0.3 bar)
  Bowl pressure required to open drain: Less than 3 psig (0.2 bar)
  Manual operation: Depress pin inside drain outlet to drain bowl
Gauge Ports:
  1/8” PTF with PTF main ports
  1/8” ISO Rc with ISO Rc main ports
  1/8” ISO Rc with ISO G main ports

NOTE
Water vapor will pass through these units and could condense into liquid form downstream as air temperature drops. Install a Norgren air dryer if water condensation could have a detrimental effect on the application.

Materials
Body: Zinc
Bonnet: Acetal
Valve: Brass
Bowl:
  Transparent – Polycarbonate
  Transparent with guard – Polycarbonate, Zinc guard
  Metal – Zinc
Metal bowl liquid level indicator lens: Transparent nylon
Element: Sintered polypropylene
Elastomers: Neoprene & nitrile

Dimensions in Inches (mm)
Panel mounting hole diameter: 1.57” (40 mm)
Panel thickness: 0” to 0.16” (0 to 4 mm)
B73G General Purpose Filter/Regulator

1/4", 3/8", 1/2" Port Sizes

- Excelon design allows in-line or modular installation with other 72, 73, and 74 Series products.
- Combines the functions of a filter and pressure regulator into one compact, space saving unit.
- High efficiency water and particle removal.
- Highly visible, prismatic liquid level indicator lens
- Quick release bayonet bowl
- Balanced valve design minimizes effect of variation in the inlet pressure on the outlet pressure
- Standard relieving models allow reduction of downstream pressure when the system is dead-ended. Non-relieving models options.
- High flow capacity with full flow gauge ports
- Low torque, non-rising pressure adjustment knob or sturdy T-handle provide easy hand adjustment at any pressure. The knob has an integral locking device which can be made tamper resistant with the addition of a tamper resistant kit.

Ordering Information

Standard Models

<table>
<thead>
<tr>
<th>Size</th>
<th>Port</th>
<th>Outlet Pressure Adjustment Range*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>1.5</td>
<td>(0.7) B73G-2AK-AD3-RFG</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>1.5</td>
<td>(0.7) B73G-3AK-AD3-RFG</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>1.5</td>
<td>(0.7) B73G-4AK-AD3-RFG</td>
</tr>
</tbody>
</table>

* Do not use these filter/regulators to control pressures outside of the specified ranges.

Options

- Select the desired filter/regulator from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 80 for additional options.

Optional Threads
- B ISO Rp taper
- G ISO G parallel

Optional Adjustment
- T T-handle

Optional Drain
- Q 1/4 turn manual

Standard Gauge
- N Without gauge

Optional Diaphragm
- N Nonrelieving

Optional Element
- 1 5µm
- 2 25µm
- 3 40µm

Optional Bowl
- P Transparent with guard*
- T Transparent*

*Filter/Regulators with 250 psig spring are not available with “T” or “P” bowls.

Service Kits

Seal and gasket kit for relieving filter/regulators: 4383-600
Seal and gasket kit for nonrelieving filter/regulators: 4380-601
Liquid level indicator repair kit: 4380-020
Filter element, 5µm: 4438-01
Filter element, 25µm: 4438-02
Filter element, 40µm: 4438-03
Manual drain: 619-50
Automatic drain: 4000-51R

For accessories see pages 72 thru 75.
Technical Data
Fluid: Compressed air
Maximum pressure –
  Transparent bowl: 150 psig (10 bar)
  Metal bowl: 250 psig (17 bar)
Operating temperature* –
  Transparent bowl: 0° to 125°F (-20° to 50°C)
  Metal bowl: 0° to 175°F (-20° to 80°C)
*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).
Approximate flow at 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a drop of 15 psig (1 bar) from set: 106 scfm (50 dm³/s)
Particle removal: 5, 25 or 40µm filter element
Air quality: Within ISO 8573-1, Class 3 and Class 5 (particulates)
Manual drain connection: 7/16-24 UNS male for 1/4" tube nut and ferrule
Automatic drain connection: Accepts ISO R1/8 and 1/8PTF
Automatic drain operating conditions: Float operated
  Bowl pressure required to close drain: Greater than 5 psig (0.3 bar)
  Bowl pressure required to open drain: Less than 3 psig (0.2 bar)
  Minimum air flow required to close drain: 0.2 scfm (0.1 dm³/s)
  Manual operation: Depress pin inside drain outlet to drain bowl
Gauge ports:
  1/4 PTF with PTF main ports
  ISO Rc1/4 with ISO Rc main ports
  ISO Rc1/8 with ISO G main ports

Materials
Body: Aluminum
Bonnet: Aluminum
Valve: Brass
Bowl –
  Transparent: Polycarbonate
  Transparent with guard: Polycarbonate, steel guard
  Metal: Aluminum
  Metal bowl liquid level indicator lens: Transparent nylon
Element: Sintered plastic
Elastomers: Neoprene and nitrile

Dimensions in Inches (mm)
Panel mounting hole diameter: 48 mm (1.89")
Panel thickness: 2 to 6 mm (0.06" to 0.25")
* Minimum clearance to remove bowl.
Excelon design allows in-line or modular installation with other 72, 73, and 74 Series products.

Combines the functions of a filter and pressure regulator into one compact, space saving unit.

High efficiency water and particle removal.

Highly visible, prismatic liquid level indicator lens

Quick release bayonet bowl

Balanced valve design minimizes effect of variation in the inlet pressure on the outlet pressure

Standard relieving models allow reduction of downstream pressure when the system is dead-ended. Non-relieving models options.

High flow capacity with full flow gauge ports

Low torque, non-rising pressure adjustment knob or sturdy T-handle provide easy hand adjustment at any pressure. The knob has an integral locking device which can be made tamper resistant with the addition of a tamper resistant kit.

Ordering Information

Model Numbers - Automatic drain, metal bowl with liquid level indicator, 40µm element, relieving diaphragm, with pressure gauge.

Outlet Pressure Adjustment Range *

<table>
<thead>
<tr>
<th>Size</th>
<th>Weight</th>
<th>Knob Adjustment</th>
<th>T-Handle Adjustment **</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port</td>
<td>PTF lbs.(kg)</td>
<td>(0.3 to 4 bar)</td>
<td>(0.3 to 10 bar)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>2.62 (1.19) B74G-3AK-AD3-RFG B74G-3AK-AD3-RMG B74G-3AT-AD3-RSG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>2.59 (1.17) B74G-4AK-AD3-RFG B74G-4AK-AD3-RMG B74G-4AT-AD3-RSG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>2.55 (1.16) B74G-6AK-AD3-RFG B74G-6AK-AD3-RMG B74G-6AT-AD3-RSG</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Do not use these filter/regulators to control pressures outside of the specified ranges.

** Filter/regulators with 250 psig spring are not available with the knob adjustment or "P" bowl.

Options - Select the desired filter/regulator from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 80 for additional options.

<table>
<thead>
<tr>
<th>Optional Adjustment</th>
<th>Standard Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>T T-handle</td>
<td>N Without gauge</td>
</tr>
<tr>
<td>Optional Diaphragm</td>
<td>N Nonrelieving</td>
</tr>
<tr>
<td>Optional Element</td>
<td>1 5µm</td>
</tr>
<tr>
<td>Optional Bowl</td>
<td>P Plastic with metal guard</td>
</tr>
</tbody>
</table>

Optional Drain

Q 1/4 turn manual

Service Kits

Seal and gasket kit for relieving filter/regulators: 4383-700
Seal and gasket kit for nonrelieving filter/regulators: 4383-701
Liquid level indicator repair kit: 4390-050
Filter element, 5µm: 4338-04
Filter element, 40µm: 4338-05
Manual drain: 619-50
Automatic drain: 3000-10

For accessories see pages 72 thru 75.
**Technical Data**

Fluid: Compressed air

Maximum inlet pressure –
- Transparent bowl: 150 psig (10.3 bar)
- Metal bowl: 250 psig (17.2 bar)

Temperature range* –
- Transparent bowl: 0° to 125°F (-18° to 52°C)
- Metal bowl: 0° to 175°F (-18° to 79°C)

Air Quality: Within ISO 8573-1, Class 3 and Class 5

*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Approximate flow at 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a drop of 15 psig (1 bar) from set: 200 scfm (94 dm³/s).

Automatic drain connection: 1/8 NPTF

Manual drain connection: 7/16-24 UNS male (for 1/4" tube nut and ferrule)

Gauge ports:
- 1/4" PTF with PTF main ports.
- 1/4" ISO Rc with ISO Rc main ports.
- 1/8" ISO Rc with ISO G main ports.

Automatic drain minimum operating pressure: 10 psig (0.69 bar). The drain is open when the filter is not pressurized and closes when the bowl is pressurized to approximately 5 psig (0.35 bar). The automatic drain operates when liquid accumulates above a certain level or when bowl pressure is reduced to zero.

**Materials**

Body: Aluminum

Bonnet: Aluminum

Valve: Brass

Bowl:
- Transparent – Polycarbonate with zinc bowl guard
- Metal – Aluminum

Metal bowl liquid level indicator lens: Transparent nylon

Element: Sintered polypropylene

Elastomers: Neoprene & nitrile

Dimensions in inches (mm)

Panel mounting hole diameter: 2.06" (52mm)

Panel thickness: 0.06" to 0.25" (2 to 6 mm)

* Minimum clearance to remove bowl.

**Performance Characteristics**

![Flow Curve, B74](image)

Port Size: 1/2"

Inlet Pressure: 150 psig (10 bar)

Outlet Pressure Adjustment Range: 5.0 to 150 psig (0.3 to 10 bar)

![Flow Curve, B74](image)

Port Size: 1/2"

Inlet Pressure: 100 psig (7 bar)

Outlet Pressure Adjustment Range: 5.0 to 150 psig
L72M and L72C Lubricators
Micro-Fog and Oil-Fog Lubricators
1/4" and 3/8" Port Sizes

- Excelon design allows in-line or modular installation with other 72, 73, and 74 Series products.
- Flow sensor design provides a nearly constant oil/air ratio over a wide range of air flows.
- 360° visibility of the sight-feed dome simplifies installation and adjustment.
- Highly visible, prismatic liquid level indicator lens.
- Quick release bayonet bowl with patented quarter turn manual drain.
- Micro-Fog and Oil-Fog are both available. Use Micro-Fog models to lubricate one or more air driven tools or devices Use Oil-Fog models to lubricate a single air driven tool or device

Ordering Information

<table>
<thead>
<tr>
<th>Standard Models</th>
<th>Model Numbers - 1/4 turn manual drain, 2.2 oz. transparent bowl without guard.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port Size</td>
<td>Weight</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>1.08 lbs. (0.49)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>1.08 lbs. (0.49)</td>
</tr>
</tbody>
</table>

Options - Select the desired lubricator from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 81 for additional options.

Optional Threads
- B ISO Rc taper
- G ISO G parallel

Optional Bowl
- D 1.9 oz. metal with liquid level indicator
- W 2.2 oz. transparent with guard

* For other bowl options consult factory (shorter and lower 1.9 oz. capacity.)

Service Kits
- Seal and gasket kit: 4382-500
- Liquid level indicator repair kit: 4380-030
- Manual drain: 619-50

NOTE
Models listed in the order table must not be located downstream of frequently cycling directional control valves. Order the optional bidirectional Oil-Fog Lubricator for use under such conditions.

For accessories see pages 72 thru 75.
Technical Data
Fluid: Compressed air
Maximum Pressure –
  Transparent bowl: 150 psig (10 bar)
  Metal bowl: 250 psig (17 bar)
Operating Temperature* –
  Transparent bowl: 6° to 125°F (-18° to 50°C)
  Metal bowl: 0° to 150°F (-18° to 65°C)
*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).
Start point (i.e., minimum airflow required for lubricator operation) –
  Oil-Fog models: 1.0 scfm (0.47 dm³/s) at 90 psig (6.3 bar) inlet pressure
  Micro-Fog models: 2.0 scfm (0.94 dm³/s) at 90 psig (6.3 bar) inlet pressure
Approximate flow at 90 psig (6.3 bar) inlet pressure and 5 psid (0.3 bar) pressure drop: 36 scfm (17 dm³/s)
Nominal Bowl Capacity –
  Long transparent bowl: 2.2 oz (65 ml)
  Short metal bowl: 1.9 oz (56 ml)
Manual Drain Connection: 7/16-24 UNS male for 1/4" tube nut and ferrule
Recommended lubricants: Use a misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at 100°F (38°C). The oils used must be compatible with materials of construction. Contact your lubricant supplier and the builder of the equipment to be lubricated to obtain specific lubricant recommendations.

Materials
Body: Zinc
Bowl:
  Transparent: Polycarbonate
  Transparent with guard: Polycarbonate, Zinc guard
  Metal: Zinc
Metal bowl liquid level indicator lens: Transparent nylon
Sight feed dome: Transparent nylon
Elastomers: Neoprene, nitrile, and Geolast®

Dimensions in Inches (mm)
* Minimum clearance required to remove reservoir from unit.
  Add 0.56" (14mm) for long (2.2 fluid ounce) reservoir.
** Add 0.56" (14mm) for long (2.2 fluid ounce) reservoir.
† Optional pyrex sight feed dome.
L73M and L73C Lubricators
Micro-Fog and Oil-Fog Tool Lubricators
1/4", 3/8", 1/2" Port Sizes

- Excelon design allows in-line or modular installation with other 72, 73, and 74 Series products.
- Flow sensor design provides a nearly constant oil/air ratio over a wide range of air flows.
- 360° visibility of the sight-feed dome simplifies installation and adjustment.
- Highly visible, prismatic liquid level indicator lens.
- Quick release bayonet bowl with patented quarter turn manual drain.
- Micro-Fog and Oil-Fog are both available. Use Micro-Fog models to lubricate one or more air driven tools or devices. Use Oil-Fog models to lubricate a single air driven tool or device.

Ordering Information

<table>
<thead>
<tr>
<th>Standard Models</th>
<th>Micro-Fog</th>
<th>Oil-Fog</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port</td>
<td>Model Numbers - 1/4 turn manual drain, metal with liquid level indicator</td>
<td></td>
</tr>
<tr>
<td>Size</td>
<td>PTF</td>
<td>lbs.</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>1.1</td>
<td>0.5</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>1.1</td>
<td>0.5</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>1.1</td>
<td>0.5</td>
</tr>
</tbody>
</table>

Options - Select the desired lubricator from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 81 for additional options.

ISO Symbols

- With Drain

Operation

- Additional Options
  - P - With pyrex sight-feed dome
  - Q - Quick fill nipple

Optional Bowl
- P - Transparent with guard
- R - Metal with Pyrex liquid level indicator
- T - Transparent

Service Kits
- Seal and gasket kit: 4382-500
- Liquid level indicator repair kit: 4380-030
- Manual drain: 619-50

NOTE
Models listed in the order table must not be located downstream of frequently cycling directional control valves. Order the optional bidirectional (74 Series) Oil-Fog Lubricator for use under such conditions.

For accessories see pages 72 thru 75.
Technical Data
Fluid: Compressed air
Maximum pressure:
  Transparent bowl: 150 psig (10 bar)
  Metal bowl: 250 psig (17 bar)
Operating temperature* –
  Transparent bowl: 0° to 125°F (-20° to 50°C)
  Metal bowl: 0° to 175°F (-20° to 80°C)
*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).
Start point (minimum flow required for lubricator operation): 1.5 scfm (0.71 dm³/s) at 90 psig (6.3 bar) inlet pressure
Maximum recommended flow: 60 scfm (28 dm³/s). Air flows above 60 scfm (28 dm³/s) create excessive air velocity, turbulence, and pressure losses. In addition, the fog produced by the lubricator will wet out on the pipe walls and will not be carried by the compressed air to the point of application.
Typical flow with 90 psig (6.3 bar) inlet pressure and 7 psig (0.5 bar) pressure drop:
  Micro-Fog models: 138 scfm (65 dm³/s)
  Oil-Fog models: 158 scfm (75 dm³/s)
Nominal bowl size: 3.5 ounce (0.1 litre)
Manual drain connection: 7/16-24 UNS male (for 1/4" tube nut and ferrule)
Recommended lubricants: Use a misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at 100°F (38°C). The oils used must be compatible with materials of construction. Contact your lubricant supplier and the builder of the equipment to be lubricated to obtain specific lubricant recommendations.

Materials
Body: Aluminum
Bowl:
  Transparent: Polycarbonate
  Transparent with guard: Polycarbonate, steel guard
  Metal: Aluminum
  Metal bowl liquid level indicator lens: Transparent nylon
  Sight-Feed dome: Transparent nylon
  Elastomers: Neoprene and nitrile

Dimensions in Inches (mm)
* Minimum clearance to remove bowl.
** Optional pyrex sight-feed dome.
L74M and L74C Lubricators

3/8", 1/2", and 3/4" Port Sizes
Micro-Fog and Oil-Fog Tool Lubricators

- Excelon design allows in-line or modular installation with other 72, 73, and 74 Series products.
- Flow sensor design provides a nearly constant oil/air ratio over a wide range of air flows.
- 360° visibility of the sight-feed dome simplifies installation and adjustment.
- Highly visible, prismatic liquid level indicator lens.
- Quick release bayonet bowl with patented quarter turn manual drain.
- Micro-Fog and Oil-Fog are both available. Use Micro-Fog models to lubricate one or more air driven tools or devices. Use Oil-Fog models to lubricate a single air driven tool or device.

Ordering Information

Standard Models

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Weight * (lbs., kg)</th>
<th>Flow ** (scfm, dm³/s)</th>
<th>Model Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>1.70 (0.77)</td>
<td>2.5 to 40 (1.2 to 19.0)</td>
<td>L74M-3AP-QDN</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>1.61 (0.73)</td>
<td>3.5 to 100 (1.7 to 47.0)</td>
<td>L74M-4AP-QDN</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>1.56 (0.71)</td>
<td>3.5 to 100 (1.7 to 47.0)</td>
<td>L74M-6AP-QDN</td>
</tr>
</tbody>
</table>

* Lubricators with 1-quart metal bowl: Add 2.01 lbs (0.91 kg).
** Approximate flow at 100 psig (6.9 bar) inlet pressure and 5 psid.

Options - Select the desired lubricator from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 82 for additional options.

Optional Threads
- B ISO Rc taper
- G ISO G parallel

Optional Flow Type (Oil-Fog Only)
- E Bidirectional

Additional Options
- Q With quick fill cap
- P With pyrex dome

Optional Reservoirs
- P 7-oz. transparent with metal guard
- A 1-qt. metal with pyrex liquid level indicator

Service Kits
- Seal and gasket kit: 4382-700
- Liquid level indicator repair kit: 4380-050
- Manual drain: 619-50

NOTE
Models listed in the order table must not be located downstream of frequently cycling directional control valves. Order the optional bidirectional Oil-Fog Lubricator for use under such conditions.

For accessories see pages 72 thru 75.
Technical data
Maximum inlet pressure –
  Transparent reservoir: 150 psig (10.3 bar)
  Metal reservoir: 250 psig (17.2 bar)
Operating temperature –
  Transparent reservoir: 0° to 125°F (-18° to 52°C)
  Metal reservoir: 0° to 175°F (-18° to 79°C)
Manual drain connection: 7/16-24 UNS male (for 1/4" tube nut and ferrule)
Recommended lubricants: Use a misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at 100°F (38°C). The oils used must be compatible with materials of construction. Contact your lubricant supplier and the builder of the equipment to be lubricated to obtain specific lubricant recommendations.
Start point (minimum flow required for lubricator operation):
  1.5 scfm (0.71 dm³/s) at 90 psig (6.3 bar) inlet pressure
Maximum recommended flow: 60 scfm (28 dm³/s).
Air flows above 60 scfm (28 dm³/s) create excessive air velocity, turbulence, and pressure losses. In addition, the fog produced by the lubricator will wet out on the pipe walls and will not be carried by the compressed air to the point of application.
Typical flow with 90 psig (6.3 bar) inlet pressure and 7 psig (0.5 bar) pressure drop –
  Micro-Fog models: 138 scfm (65 dm³/s)
  Oil-Fog models: 158 scfm (75 dm³/s)

Materials
Body: Aluminum
Reservoir –
  Transparent: Polycarbonate with zinc bowl guard
  Metal: Aluminum
Reservoir liquid level indicator lens –
  7-ounce reservoir: Transparent nylon
  1-quart reservoir: Pyrex
Sight-Feed dome: Transparent nylon
Elastomers: Neoprene and nitrile

Dimensions in inches (mm)
*Minimum clearance required to remove bowl.
**Excelon design allows in-line or modular installation with other 72, 73, and 74 Series products.**

- Helps protect air operated equipment from over pressure by retarding excessive pressure build up.

- Low torque, non-rising pressure adjustment knob or sturdy T-handle provides easy hand adjustment at any pressure. The knob has an integral locking device which can be made tamper resistant with the addition of a temper resistant kit.

- New design allows for easy inline installation with no tee’s required (bottom venting).

### Ordering Information

**Standard Models**

<table>
<thead>
<tr>
<th>Inlet Port Size</th>
<th>Relief Port</th>
<th>Weight</th>
<th>Relief Pressure Adjustment Range</th>
<th>Knob Adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4” PTF</td>
<td>1/4”</td>
<td>0.73</td>
<td>5 to 60 psig (0.3 to 4 bar)</td>
<td>V72G-2AK-NFN</td>
</tr>
<tr>
<td>3/8” PTF</td>
<td>1/4”</td>
<td>0.73</td>
<td>5 to 150 psig (0.3 to 10 bar)</td>
<td>V72G-2AK-NMN</td>
</tr>
</tbody>
</table>

* Do not use these valves to relieve pressures outside of the specified ranges.

**Options** - Select the desired relief valve from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 83 for additional options.

- Optional Adjustment: T T-handle
- Optional Threads: B ISO Rc taper, G ISO G parallel
- Optional Gauge: G With gauge

**Service Kits**

Diaphragm and seal kit: 4209-03

**ISO Symbols**

For accessories see pages 72 thru 75.
Technical Data
Fluid: Compressed air
Operating Temperature*:
0° to 150°F (-18° to 65°C)
*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).
Gauge Port:
1/8” PTF with PTF main ports
1/8” ISO Rc with ISO Rc main ports
1/8” ISO G with ISO G main ports
Relief Ports:
1/4” NPT with NPT inlet ports
ISO G with ISO G inlet ports
ISO Rc with ISO Rc inlet ports

Materials
Body: Zinc
Bonnet: Acetal
Valve: Brass
Elastomers: Neoprene

Dimensions in Inches (mm)

Performance Characteristics

Relief Curve, V72
Port Size: 1/4”
Range: 5.0 to 150 psig (0.3 to 10 bar)
V74G Pressure Relief Valve
3/8", 1/2", and 3/4" Port Sizes

- Excelon design allows in-line or modular installation with other 72, 73, and 74 Series products.
- Helps protect air operated equipment from over pressure by retarding excessive pressure build up.
- Low torque, non-rising pressure adjustment knob or sturdy T-handle provides easy hand adjustment at any pressure. The knob has an integral locking device which can be made tamper resistant with the addition of a tamper resistant kit.

Ordering Information

Standard Models

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Weight (lbs. kg)</th>
<th>Knob Adjustment Pressure (5 to 60 psig)</th>
<th>Knob Adjustment Pressure (5 to 150 psig)</th>
<th>T-Handle Adjustment Pressure (10 to 250 psig)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>1.53 (0.69)</td>
<td>V74G-3AK-NFN</td>
<td>V74G-3AK-NMN</td>
<td>V74G-3AT-NSN</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>1.50 (0.68)</td>
<td>V74G-4AK-NFN</td>
<td>V74G-4AK-NMN</td>
<td>V74G-4AT-NSN</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>1.47 (0.67)</td>
<td>V74G-6AK-NFN</td>
<td>V74G-6AK-NMN</td>
<td>V74G-6AT-NSN</td>
</tr>
</tbody>
</table>

* Relief valve can be adjusted to relieve at pressures in excess of, and less than, those specified. Do not use these valves to relieve pressures outside of the specified ranges.
** Relief valves with the 250 psig spring are not available with the knob adjustment.

Options - Select the desired relief valve from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 83 for additional options.

Optional Adjustments:
- T T-handle

Optional Threads:
- B ISO Rc taper
- G ISO G parallel

Optional Gauges:
- G With gauge

Service Kits:
Diaphragm and seal kit: 4384-700

For accessories see pages 72 thru 75.
Technical data
Fluid: Compressed air
Maximum Pressure: 300 psig (20 bar)
Temperature Range*: 0° to 175°F (-18° to 79°C).
*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).
Gauge ports:
1/4" PTF with PTF main ports.
1/4" ISO Rc with ISO Rc main ports.
1/8" ISO Rc with ISO G main ports.

Materials
Body: Aluminum
Bonnet: Aluminum
Valve: Aluminum, nitrile
Elastomers: Neoprene
Bottom Plug: Acetal

Dimensions in Inches (mm)
Panel mounting hole diameter: 2.06" (52mm)
Panel thickness: 0.06" to 0.25" (2 to 6 mm)
EXCELON design allows in-line or modular installation with other 72, 73, and 74 Series products.

- Valves can be quickly closed by manually pushing the slide.
- Valves can be locked in closed position only.

- T72E 3-port/2-position lockout valves help conform to OSHA Lockout Regulations. Valves block inlet air flow and exhaust downstream air in the closed position. Exhaust outlet is not tapped (yellow slide).

- T72B 2-port/2-position shutoff valves block inlet air flow in the closed position but do not exhaust downstream air (black slide).

- T72T 3-port/2-position shutoff valves block inlet air flow and exhaust downstream air in the closed position. Exhaust port is tapped (red slide).

- Valves can be quickly closed by manually pushing the slide.
- Valves can be locked in the closed position only with a customer supplied padlock.

### Ordering Information

#### Standard Models

<table>
<thead>
<tr>
<th>Size</th>
<th>Weight PTF lbs.(kg)</th>
<th>Port</th>
<th>Lockout valve, yellow slide, 3-Port/2-position</th>
<th>Shut-off valve, black slide, 2-port/2-position</th>
<th>Shut-off valve, red slide, 3-port/2-position</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>0.79 (0.36)</td>
<td>T72E</td>
<td>T72E-2AA-P1N</td>
<td>T72B-2AA-P1N</td>
<td>T72T-2AA-P1N</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>0.79 (0.36)</td>
<td>T72E</td>
<td>T72E-3AA-P1N</td>
<td>T72B-3AA-P1N</td>
<td>T72T-3AA-P1N</td>
</tr>
</tbody>
</table>

**Options** - Select the desired shutoff valve from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 84 for additional options.

T72* - ★★A - P1N

Optional Threads for T72 Shutoff Valves

- B ISO Rc taper
- G ISO G parallel

#### Service Kits (includes seals and slide)

<table>
<thead>
<tr>
<th>Type</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>T72E (yellow slide)</td>
<td>4384-513</td>
</tr>
<tr>
<td>T72B (black slide)</td>
<td>4384-511</td>
</tr>
<tr>
<td>T72T (red slide)</td>
<td>4384-512</td>
</tr>
</tbody>
</table>

For accessories see pages 72 thru 75.
Technical Data
Fluid: Compressed air
Maximum Inlet Pressure: 250 psig (17 bar)
Operating Temperature*:
  0° to 150°F (-20° to 65°C)
*Air supply must be dry enough to avoid ice formation at temperatures below 2°C (35°F.)
Cv factor from IN to OUT ports: 5.7 *
Optional threaded exhaust port 10-32
Maximum diameter of customer supplied padlock shackle: 3/16" (5 mm)

*Cv factor from OUT to EXHAUST ports on 3-port/2-position valves is 0.2.

Materials
Body: Zinc
Slide: Acetal plastic
Elastomers: Nitrile
EXCELON design allows in-line or modular installation with other 72, 73, and 74 Series products.

- Valves can be quickly closed by manually pushing the slide.
- Valves can be locked in closed position only.
- T73E 3-port/2-position lockout valves help conform to OSHA Lockout Regulations. Valves block inlet air flow and exhaust downstream air in the closed position. Exhaust outlet is not tapped (yellow slide).
- T73B 2-port/2-position shutoff valves block inlet air flow in the closed position but do not exhaust downstream air (black slide).
- T73T 3-port/2-position shutoff valves block inlet air flow and exhaust downstream air in the closed position. Exhaust port is tapped (red slide).
- Valves can be quickly closed by manually pushing the slide.
- Valves can be locked in the closed position only with a customer supplied padlock.

### Ordering Information

**Standard Models**

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Weight (lbs.)</th>
<th>3-Port/2-Position, Unthreaded Exhaust</th>
<th>2-Port/2-Position, No Exhaust Outlet</th>
<th>3-Port/2-Position, Threaded Exhaust Port</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>0.7 (0.3)</td>
<td>T73E-2AA-P1N</td>
<td>T73B-2AA-P1N</td>
<td>T73T-2AA-P1N</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>0.7 (0.3)</td>
<td>T73E-3AA-P1N</td>
<td>T73B-3AA-P1N</td>
<td>T73T-3AA-P1N</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>0.7 (0.3)</td>
<td>T73E-4AA-P1N</td>
<td>T73B-4AA-P1N</td>
<td>T73T-4AA-P1N</td>
</tr>
</tbody>
</table>

**Options** - Select the desired shutoff valve from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 84 for additional options.

**ISO Symbols**

- **Operation**
  - 2-Port/2-Position
  - 3-Port/2-Position

**Service Kits (includes seals and slide)**

<table>
<thead>
<tr>
<th>Type</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>T73E (yellow slide)</td>
<td>4384-611</td>
</tr>
<tr>
<td>T73B (black slide)</td>
<td>4384-610</td>
</tr>
<tr>
<td>T73T (red slide)</td>
<td>4384-612</td>
</tr>
</tbody>
</table>

For accessories see pages 72 thru 75.
**Technical Data**

Fluid: Compressed air  
Maximum pressure: 250 psig (17 bar)  
Operating temperature*:  
0° to +150°F (-20° to +65°C)  
*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).  
Cv factor:  
IN to OUT ports:  
1/4" ports: 4.0  
3/8" ports: 8.0  
1/2" ports: 7.8  
OUT to EXHAUST ports on 3-port/2-position valves: 0.2  
Exhaust port threads on T73T models: 10-32  
Maximum diameter of customer supplied padlock shackle: 5/16" (8 mm)

**Materials**

Body: Zinc  
Slide: Acetal plastic  
Elastomers: Nitrile

**Dimensions in Inches (mm)**

- Height: 2.13 (54) mm  
- Width: 1.22 (31) mm  
- Depth: 0.88 (22) mm
**EXCELEN design allows in-line or modular installation with other 72, 73, and 74 Series products**

**Valves can be quickly closed by manually pushing the slide.**

**Valves can be locked in closed position only.**

**T74E 3-port/2-position lockout valves help conform to OSHA Lockout Regulations. Valves block inlet air flow and exhaust downstream air in the closed position. Exhaust outlet is not tapped (yellow slide).**

**T74B 2-port/2-position shutoff valves block inlet air flow in the closed position but do not exhaust downstream air (black slide).**

**T74T 3-port/2-position shutoff valves block inlet air flow and exhaust downstream air in the closed position. Exhaust port is tapped (red slide).**

**Valves can be quickly closed by manually pushing the slide.**

**Valves can be locked in the closed position only with a customer supplied padlock.**

### Ordering Information

#### Standard Models (PTF threads)

<table>
<thead>
<tr>
<th>Size</th>
<th>Weight (lbs.)</th>
<th>3-Port/2-position, unthreaded exhaust</th>
<th>2-Port/2-position, no exhaust outlet</th>
<th>3-Port/2-position, threaded exhaust port</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTF</td>
<td></td>
<td>Lockout valve, Yellow</td>
<td>Shut-off valve, Black</td>
<td>Shut-off valve, Red</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>0.69 (0.32)</td>
<td>T74E-3AA-P1N</td>
<td>T74B-3AA-P1N</td>
<td>T74T-3AA-P1N</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>0.65 (0.30)</td>
<td>T74E-4AA-P1N</td>
<td>T74B-4AA-P1N</td>
<td>T74T-4AA-P1N</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>0.62 (0.28)</td>
<td>T74E-6AA-P1N</td>
<td>T74B-6AA-P1N</td>
<td>T74T-6AA-P1N</td>
</tr>
</tbody>
</table>

**Options** - Select the desired shutoff valve from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 84 for additional options.

#### Optional Threads for T74 Shutoff Valves

- **B** ISO Rp taper
- **G** ISO G parallel

### ISO Symbol

- 2-Port/2-Position
- 3-Port/2-Position

#### Operation

- IN → OUT
- IN → OUT

### Service Kits (includes seals and slide)

<table>
<thead>
<tr>
<th>Type</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>T74E (yellow slide)</td>
<td>4384-710</td>
</tr>
<tr>
<td>T74B (black slide)</td>
<td>4384-711</td>
</tr>
<tr>
<td>T74T (red slide)</td>
<td>4384-713</td>
</tr>
</tbody>
</table>

For accessories see pages 72 thru 75.
**Technical Data**

Fluid: Compressed air

Maximum Inlet Pressure: 250 psig (17.2 bar)

Operating Temperature: 0° to 150°F (-20° to 66°C)

Exhaust port threads on T74T Shut-Off valves:
- 1/8-27 PTF with PTF main ports
- 1/8-28 ISO Rc with ISO G and ISO Rc main ports

Cv factor:
- IN to OUT ports:
  - 3/8” ports: 7.1
  - 1/2” ports: 8.1
  - 3/4” ports: 7.7

- OUT to EXHAUST ports on 3-port/2-position valves: 0.2

Maximum diameter of customer supplied padlock shackle: 5/16” (8 mm)

**Materials**

Body: Zinc

Slide: Acetal plastic

Elastomers: Nitrile
72 Series Combination Units – Filters
1/4" and 3/8" Port Sizes

EXCELON design allows in-line or modular installation with other 72, 73, and 74 Series products

F72G pre filter and F72C oil removal filter provide high efficiency oil removal and particle removal to 0.01 µm. Pre filter removes particulate to 5 µm. Coalescing filter removes particles down to 0.01 µm. Maximum remaining oil content of air leaving the filter is 0.01 ppm at 70°F (21°C) with an inlet concentration of 17 ppm. Provides air quality within ISO 8573-1: Class 1.-.2

Service indicator turns from green to red when the filter element needs to be replaced.

Highly visible, prismatic liquid level indicator lens.

Quick release bayonet bowl.

Patented quarter turn manual drain.

Ordering Information

Standard Models

General Purpose & Coalescing Filters: Automatic drain, 2.2 oz. transparent bowl, and service life indicator, 5µm filter on inlet.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Number - Inline Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>H72A-2AB-AL1-NNN-LNN</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>H72A-3AB-AL1-NNN-LNN</td>
</tr>
</tbody>
</table>

Options - Select the desired combination unit from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 85 for additional options.

ISO Symbols

Optimal Lockout Valve and Quikmount Pipe Adapters

- H Filter-Filter (standard)
- J Lockout valve on inlet of combination.
- M Quikmount pipe adapters.
- N Lockout valve on inlet and Quikmount pipe adapter on outlet.

Quikclamp Wall Mounting Brackets

- B With brackets
- N Without

Coalescing Filter Bowl

- D 1.9 oz. metal with liquid level indicator*
- W 2.2 oz. transparent with guard

General Purpose Filter Bowl

- D 1.9 oz. metal with liquid level indicator*
- W 2.2 oz. transparent with guard

General Purpose and Oil Removal Filter Drain Options

- G 1/4 turn manual
- S Semiautomatic

Service Indicator Options

- B Service indicator on both filters.
- C Service indicator only on coalescing filter.
- D Service indicator only on general purpose filter.
- N No service indicator.

Service Kits, Specifications, Materials, and Performance.

See filter pages 6, 7, 12, and 13.

For accessories see pages 72 thru 75.
See pages 7 and 13 for dimensions on individual units. The optional Quikclamp wall mounting bracket is illustrated on the following combination units.

**H72 Combination Units (Listed in Order Table)**

**J72 Combinations with Lockout Valve (See Alternative Models)**

**M72 Combinations with Quikmount Pipe Adapters (See Alternative Models)**

**N72 Combinations with Lockout Valve and Quikmount Pipe Adapter (See Alternative Models)**
EXCELON design allows in-line or modular installation with other 72, 73, and 74 Series products.

F73G pre filter and F73C oil removal filter provide high efficiency oil removal and particle removal to 0.01 µm. Pre filter removes particulate to 5µm. Coalescing filter removes particles down to 0.01 µm. Maximum remaining oil content of air leaving the filter is 0.01 ppm at 70°F (21°C) with an inlet concentration of 17 ppm. Provides air quality within ISO 8573-1: Class 1.2.

Service indicator turns from green to red when the filter element needs to be replaced.

Highly visible, prismatic liquid level indicator lens.

Quick release bayonet bowl.

Patented quarter turn manual drain.

### Ordering Information

#### Standard Models

**General Purpose & Coalescing Filters:** Automatic drains, metal bowl with liquid level indicator, and service life indicator, 5µm filter on inlet.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Body and General Purpose &amp; Coalescing Filters</th>
<th>Model Number - Inline Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>Standard</td>
<td>H73A-2AB-AD1-NNN-DNN</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>Standard</td>
<td>H73A-3AB-AD1-NNN-DNN</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>Standard</td>
<td>H73A-4AB-AD1-NNN-DNN</td>
</tr>
</tbody>
</table>

**Optional Lockout Valve and Quikmount Pipe Adapters**

- H Filter-Filter (standard)
- J Lockout valve on inlet of combination.
- M Quikmount pipe adapters.
- N Lockout valve on inlet and Quikmount pipe adapter on outlet.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Optional Lockout Valve and Quikmount Pipe Adapters</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>1/4&quot;, 3/8&quot;, 1/2&quot;</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>1/4&quot;, 3/8&quot;, 1/2&quot;</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>1/4&quot;, 3/8&quot;, 1/2&quot;</td>
</tr>
</tbody>
</table>

**Optional Threads**

- B ISO Rq Taper
- G ISO G Parallel

**Service Indicator Options**

- B Service indicator on both filters.
- C Service indicator only on coalescing filter.
- D Service indicator only on general purpose filter.
- N No service indicator.

**Service Kits, Specifications, Materials, Performance, and Unit Dimensions**

See filter pages 6 thru 15.
See pages 7 and 15 for dimensions on individual units.

**Standard Type H73A-**
Shown with optional Quikclamp wall bracket.

**Alternative Type J73A-**
Includes Lockout Valve
Shown with optional Quikclamp wall brackets.

**Alternative Type M73A-**
Includes Quikmount Pipe Adapters
Shown with optional Quikclamp wall brackets.

**Alternative Type N73A-**
Includes Lockout Valve and Quikmount Pipe Adapters
Shown with optional Quikclamp wall brackets.
74 Series Combination Units – Filters
3/8", 1/2", and 3/4" Port Sizes

- EXCELCEN design allows in-line or modular installation with other 72, 73, and 74 Series products.

- F74G pre filter and F74C oil removal filter provide high efficiency oil removal and particle removal to 0.01 µm. Pre filter removes particulate to 5µm. Coalescing filter removes particles down to 0.01 µm. Maximum remaining oil content of air leaving the filter is 0.01 ppm at 70°F (21°C) with an inlet concentration of 17 ppm. Provides air quality within ISO 8573-1: Class 1.-.2.

- F74C and F74V combinations provide air quality within ISO 8573-1: Class 1.-.1.

- Service indicator turns from green to red when the filter element needs to be replaced.

- Highly visible, prismatic liquid level indicator lens.

- Quick release bayonet bowl.

- Patented quarter turn manual drain.

Ordering Information

Standard Models

General Purpose Coalescing Filters: Metal bowl with liquid level indicator, automatic drains, and service life indicators.

Adsorbing filter: Metal bowl, without liquid level indicator, closed bottom.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>General Purpose Coalescing Filters</th>
<th>General Purpose, Coalescing &amp; Adsorbing Filters</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>H74A-3AB-AD1-NNN-DNN</td>
<td>H74F-3AB-AD1-NNN-DMN</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>H74A-4AB-AD1-NNN-DNN</td>
<td>H74F-4AB-AD1-NNN-DMN</td>
</tr>
<tr>
<td>1/2&quot; High Flow</td>
<td>H74B-4AB-AD1-NNN-DNN</td>
<td>–</td>
</tr>
<tr>
<td>3/4&quot; High Flow</td>
<td>H74B-6AB-AD1-NNN-DNN</td>
<td>–</td>
</tr>
</tbody>
</table>

Options - Select the desired combination unit from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 85 for additional options.

Service Indicator Options

C Service indicator only on coalescing filter.
D Service indicator only on general purpose filter.
N No service indicator.

For accessories see pages 72 thru 75.
See pages 11, 17 and 19 for dimensions on individual units.

**Standard Combination Units**
Shown with optional Quikclamp wall mounting brackets.

**Optional Combinations with Lockout Valve**
Shown with optional Quikclamp wall mounting brackets.

**Optional Combinations with Quikmount Pipe Adapters**
Shown with optional Quikclump wall mounting brackets.

**Optional Combinations with Lockout Valve and Quikmount Pipe Adapter** - Shown with optional Quikclamp wall mounting brackets.
72 Series F-R-L Combination Units

1/4" and 3/8" Port Sizes

- EXCElon design allows in-line or modular installation with other 72, 73, and 74 Series products
- High efficiency water and particle removal. Particle removal within ISO 8357-1: Class 3 and 5.
- Regulator balanced valve minimizes effect of variation in the inlet pressure on the outlet pressure.
- Micro-Fog or Oil-Fog models available.
- Quick release bayonet bowl.
- Highly visible, prismatic liquid level indicator lens.

Ordering Information

Standard Models

Filter/Regulator (F/R) and Regulator (R) listed in table are relieving type with knob adjustment, 150 psig (10 bar) regulating spring,* and a gauge.
Filter/Regulator (F/R) and Filter (F) listed in table include an automatic drain, transparent bowl, and a 40µm element.
Lubricator (L) listed in table is an Micro-Fog model with manual drain and a transparent bowl.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Filter/Regulator-Lubricator (Two Unit F/R-L)</th>
<th>Filter-Regulator-Lubricator (Three Unit F-R-L)</th>
<th>Filter-Lubricator (Two Unit F-L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>C72H-2AK-AL3-RMG-QLN</td>
<td>C72A-2AK-AL3-RMG-QLN</td>
<td>C72C-2AN-AL3-NNN-QLN</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>C72H-3AK-AL3-RMG-QLN</td>
<td>C72A-3AK-AL3-RMG-QLN</td>
<td>C72C-3AN-AL3-NNN-QLN</td>
</tr>
</tbody>
</table>

*Do not use these units to control pressures outside of the specified ranges.

Options - Select the desired combination unit from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 86 for additional options.

- Optional Lockout Valve and Quikmount Pipe
  - D Lockout Valve on inlet of combination
  - E Quikmount pipe adapters
  - G Quikmount pipe adapter on outlet.
- Optional Lubricator and Porting Block
  - J Oil-Fog F/R-L Combination
  - B Oil-Fog F-R-L Combination
  - D Oil-Fog F-L Combination
  - K Micro-Fog F/R-L Combination with porting block between filter/regulator and lubricator.
  - L OIL-FOG F/R-L Combination
- Optional Filter and Filter/Regulator Drain
  - S Semiautomatic
  - Q Manual, 1/4 turn

ISO Symbols

See preceding pages on general purpose filters (page 6), regulators (page 16), filter/regulators (pages 14) and lubricators (pages 24).

Operation

- Filter
- Regulator
- Micro-Fog Lubricator

Service Kits, Specifications, Materials and Performance

See preceding pages on general purpose filters (pages 6 and 7), regulators (pages 16 and 17), filter/regulators (pages 20 and 21) and lubricators (pages 24 and 25).

For accessories see pages 72 thru 75.

**Automatic drain not available with “D” bowl option. For other bowl options (shorter and lower 1.9 oz. capacity) consult factory.
See pages 7, 21 and 33 for dimensions on individual units.

**72 Series F-R-L Combination Units**

**Dimensions in Inches (mm)**

**C72 Combination Units (Listed in Order Table)**

<table>
<thead>
<tr>
<th>Two Units</th>
<th>Three Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Two Units</th>
<th>Three Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.32 (59)</td>
<td>2.32 (59)</td>
</tr>
<tr>
<td>2.32 (59)</td>
<td>2.32 (59)</td>
</tr>
<tr>
<td>2.32 (59)</td>
<td>2.32 (59)</td>
</tr>
</tbody>
</table>

**D72 Combinations with Lockout Valve (See Alternative Models)**

<table>
<thead>
<tr>
<th>Two Units</th>
<th>Three Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.46 (164)</td>
<td>6.46 (164)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
<tr>
<td>2.24 (56)</td>
<td>2.24 (56)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Two Units</th>
<th>Three Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.32 (59)</td>
<td>2.32 (59)</td>
</tr>
<tr>
<td>2.32 (59)</td>
<td>2.32 (59)</td>
</tr>
<tr>
<td>2.32 (59)</td>
<td>2.32 (59)</td>
</tr>
</tbody>
</table>

**E72 Combinations with Quikmount Pipe Adapters**

(See Alternative Models)

<table>
<thead>
<tr>
<th>Two Units</th>
<th>Three Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.46 (164)</td>
<td>6.46 (164)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
<tr>
<td>2.24 (56)</td>
<td>2.24 (56)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Two Units</th>
<th>Three Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.32 (59)</td>
<td>2.32 (59)</td>
</tr>
<tr>
<td>2.32 (59)</td>
<td>2.32 (59)</td>
</tr>
<tr>
<td>2.32 (59)</td>
<td>2.32 (59)</td>
</tr>
</tbody>
</table>

**G72 Combinations with Lockout Valve and Quikmount Pipe Adapter**

(See Alternative Models)

<table>
<thead>
<tr>
<th>Two Units</th>
<th>Three Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.35 (187)</td>
<td>7.35 (187)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
<tr>
<td>4.48 (113)</td>
<td>4.48 (113)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Two Units</th>
<th>Three Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.59 (244)</td>
<td>9.59 (244)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
<tr>
<td>6.72 (171)</td>
<td>6.72 (171)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
</tbody>
</table>

**C72L Combination Units with Porting Block**

(See Alternative Models)

<table>
<thead>
<tr>
<th>Two Units</th>
<th>Three Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.61 (143)</td>
<td>5.61 (143)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
<tr>
<td>1.39 (35)</td>
<td>1.39 (35)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Two Units</th>
<th>Three Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.95 (200)</td>
<td>7.95 (200)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
<tr>
<td>3.63 (92)</td>
<td>3.63 (92)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
</tbody>
</table>

**D72L Combination Units with Porting Block and Lockout Valve**

(See Alternative Models)

<table>
<thead>
<tr>
<th>Two Units</th>
<th>Three Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.39 (188)</td>
<td>7.39 (188)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
<tr>
<td>5.87 (149)</td>
<td>5.87 (149)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Two Units</th>
<th>Three Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.74 (222)</td>
<td>8.74 (222)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
<tr>
<td>5.87 (149)</td>
<td>5.87 (149)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
</tbody>
</table>

**E72L Combination Units with Porting Block and Quikmount Pipe Adapters**

(See Alternative Models)

<table>
<thead>
<tr>
<th>Two Units</th>
<th>Three Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.11 (206)</td>
<td>8.11 (206)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
<tr>
<td>9.63 (245)</td>
<td>9.63 (245)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Two Units</th>
<th>Three Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.98 (279)</td>
<td>10.98 (279)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
<tr>
<td>8.11 (206)</td>
<td>8.11 (206)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
</tbody>
</table>

**F72 Combination Units with Porting Block**

(See Alternative Models)

<table>
<thead>
<tr>
<th>Two Units</th>
<th>Three Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.85 (200)</td>
<td>7.85 (200)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
<tr>
<td>3.63 (92)</td>
<td>3.63 (92)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Two Units</th>
<th>Three Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.09 (257)</td>
<td>10.09 (257)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
<tr>
<td>5.87 (149)</td>
<td>5.87 (149)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
</tbody>
</table>

**G72L Combination Units with Porting Block, Lockout Valve and Quikmount Pipe Adapter**

(See Alternative Models)

<table>
<thead>
<tr>
<th>Two Units</th>
<th>Three Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.63 (245)</td>
<td>9.63 (245)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
<tr>
<td>8.11 (206)</td>
<td>8.11 (206)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Two Units</th>
<th>Three Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.98 (279)</td>
<td>10.98 (279)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
<tr>
<td>8.11 (206)</td>
<td>8.11 (206)</td>
</tr>
<tr>
<td>2.11 (54)</td>
<td>2.11 (54)</td>
</tr>
</tbody>
</table>
73 Series F-R-L Combination Units

1/4", 3/8", 1/2" Port Sizes

- EXCELON design allows in-line or modular installation with other 72, 73, and 74 Series products
- High efficiency water and particle removal. Particle removal within ISO 8357-1: Class 3 and 5.
- Regulator balanced valve minimizes effect of variation in the inlet pressure on the outlet pressure.
- Micro-Fog or Oil-Fog models available.
- Quick release bayonet bowl.
- Highly visible, prismatic liquid level indicator lens.

Ordering Information

Standard Models

Filter/Regulator (F/R) and Regulator (R) listed in table are relieving type with knob adjustment, 150 psig (10 bar) regulating spring,* and a gauge.
Filter/Regulator (F/R) and Filter (F) listed in table include an automatic drain, metal bowl with liquid level indicator, and a 40µm element.
Lubricator (L) listed in table is a Micro-Fog model with manual drain and a metal bowl with liquid level indicator.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Filter/Regulator-Lubricator (Two Unit F/R-L)</th>
<th>Filter-Regulator-Lubricator (Three Unit F-R-L)</th>
<th>Filter-Lubricator (Two Unit F-L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>C73H-2AK-AD3-RMG-QDN</td>
<td>C73A-2AK-AD3-RMG-QDN</td>
<td>C73C-2AN-AD3-NNN-QDN</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>C73H-3AK-AD3-RMG-QDN</td>
<td>C73A-3AK-AD3-RMG-QDN</td>
<td>C73C-3AN-AD3-NNN-QDN</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>C73H-4AK-AD3-RMG-QDN</td>
<td>C73A-4AK-AD3-RMG-QDN</td>
<td>C73C-4AN-AD3-NNN-QDN</td>
</tr>
</tbody>
</table>

Options - Select the desired combination unit from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 86 for additional options.

Optional Lockout Valve and Quikmount Pipe

D - Lockout Valve on inlet of combination
E - Quikmount pipe adapters
G - Lockout valve on inlet and Quikmount pipe adapter on outlet.

Optional Lubricator and Porting Block

J - Oil-Fog F/R-L Combination
B - Oil-Fog F-R-L Combination
D - Oil-Fog F-L Combination
K - Micro-Fog F/R-L Combination with porting block between filter/regulator and lubricator.
L - OIL-FOG F/R-L Combination with porting block between filter/regulator and lubricator.

Optional Regulator and Filter/Regulator Adjustment
T - T-bar

Optional Filter and Filter/Regulator Drain
Q - Manual, 1/4 turn

ISO Symbols

See preceding pages on general purpose filters (page 8), regulators (page 18), filter/regulators (pages 22) and lubricators (pages 26).

Operation

Filter
Regulator
Micro-Fog Lubricator

Service Kits, Specifications, Materials, and Performance.
See pages 6, 7, 12, and 13.

For accessories see pages 72 thru 75.

*Do not use these units to control pressures outside of the specified ranges.
See pages 9, 23, and 35 for dimensions on individual units.

**Standard Micro-Fog Type C73A**
**Standard Oil-Fog Type C73B**
Shown with optional gauge and Quikclamp wall bracket.

**Alternative Micro-Fog Type D73A**
**Alternative Oil-Fog Type D73B**
Includes lockout valve.
Shown with optional gauge and Quikclamp wall bracket.

**Alternative Micro-Fog Type E73A**
**Alternative Oil-Fog Type E73B**
Includes Quikmount pipe adapters.
Shown with optional gauge and Quikclamp wall bracket.

**Alternative Micro-Fog Type G73A**
**Alternative Oil-Fog Type G73B**
Includes lockout valve and Quikmount pipe adapter.
Shown with optional gauge and Quikclamp wall bracket.
**EXCELON design allows in-line or modular installation with other 72, 73, and 74 Series products**

**High efficiency water and particle removal. Particle removal within ISO 8537-1: Class 3 and 5.**

**Regulator balanced valve minimizes effect of variation in the inlet pressure on the outlet pressure.**

**Micro-Fog or Oil-Fog models available.**

**Quick release bayonet bowl.**

**Highly visible, prismatic liquid level indicator lens.**

### Ordering Information

#### Standard Models


<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>C74H-3AK-AD3-RMG-QDN, C74A-3AK-AD3-RMG-QDN, C74C-3AN-AD3-NNN-QDN</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>C74H-4AK-AD3-RMG-QDN, C74A-4AK-AD3-RMG-QDN, C74C-4AN-AD3-NNN-QDN</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>C74H-6AK-AD3-RMG-QDN, C74A-6AK-AD3-RMG-QDN, C74C-6AN-AD3-NNN-QDN</td>
</tr>
</tbody>
</table>

**Options** - Select the desired combination unit from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see Product Numbering Chart on page 86 for additional options.

#### ISO Symbols

See preceding pages on general purpose filters (pages 8), regulators (page 18), filter/regulators (pages 22) and lubricators (pages 26).

#### Operation

*Filter*  
*Regulator*  
*Micro-Fog Lubricator*

#### Service Kits, Specifications, Materials and Performance

See preceding pages on general purpose filters (pages 8 and 9), regulators (pages 18 and 19), filter/regulators (pages 22 and 23) and lubricators (pages 26 and 27).

For accessories see pages 72 thru 75.
See pages 11, 25, and 37 for dimensions on individual units.

**Standard Combination Units**
Shown with optional Quikclamp wall mounting brackets.

**Optional Combinations with Lockout Valve**
Shown with optional Quikclamp wall mounting brackets.

**Optional Combinations with Quikmount Pipe Adapters**
Shown with optional Quikclamp wall mounting brackets.

**Optional Combinations with Lockout Valve and Quikmount Pipe Adapter** - Shown with optional Quikclamp wall mounting brackets.

**Combination Units with Porting Block**
Shown with optional Quikclamp wall mounting brackets.

**Combinations With Lockout Valve**

**Combinations With Quikmount Pipe Adapters**

**Combinations With Lockout Valve and Quikmount Pipe Adapter**
**EXCELON** design allows in-line or modular installation with other 72, 73, and 74 Series products. Inlet and outlet ports are not threaded.

- High-flow, spring return valves.
- 2-port/2-position valves available in normally closed or normally open functional modes. The 3-port/2-position valves available normally closed only.
- Options include various voltages, low watt coils, and electrical connectors.
- Short stroke, positive sealing cushioned poppets for long service life.

**Ordering Information**

### Standard Models

**Model Numbers - Modular installation, 120V60Hz/110V50Hz, 7.5 watt solenoid coil, internal pilot supply, manual locking override, cable grip electrical connector.**

<table>
<thead>
<tr>
<th>Type</th>
<th>Installation</th>
<th>Weight</th>
<th>2-Port/2-Position</th>
<th>2-Port/2-Position</th>
<th>3-Port/2-Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modular</td>
<td>1.63 (0.74)</td>
<td>P74A-NNC-SJA</td>
<td>P74B-NNC-SJA</td>
<td>P74C-NAC-SJA</td>
<td></td>
</tr>
</tbody>
</table>

**Options** - Select the desired valve from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see **Product Numbering Chart** on page 87 for additional options.

- 7.5 Watt Coils
- 3.5 Low Watt Coils

B = Cable grip with indicator lights

**Service Kits**

- Seal and gasket kit: 53474-37
- Moisture resistant connector seal: 54935-01
- Coil retaining clip: 54453-01
- Solenoid exhaust port diffuser: 54463-01

* For valves with threaded ports, see NCA-12.

**ISO Symbols**

- **P74** - NNC - S

- L = 24 VAC
- C = 24 VAC
- K = 240 VAC
- A = 120 VAC
- Q = 12 VDC
- D = 6 VDC
- P = 24 VDC
- E = 12 VDC
- F = 24 VDC

**Operation**

- **NORMAL**
  - Inlet Blocked
  - Pressure to Port B

- **ACTUATED**
  - Inlet Blocked
  - Pressure to Port B

- **3-Port/2-Position Normally Closed**
  - Inlet Blocked
  - Pressure to Port A

For accessories see pages 72 thru 75.
Technical Data
Fluids: Filtered and lubricated compressed air.
Main valve inlet pressure range: 30 to 150 psig (2.1 to 10.3 bar)
Operating Temperature*: -18° to 120°F (-28° to 49°C).
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).
Average flow factor (Cv) of 2-port valves: 4.0
Average flow factor (Cv) of 3-port valves:
In-Out Ports: 2.0
Out-Exhaust Ports: 5.3
Response times of 3-port valve (elapsed time from solenoid energized to an increase in the main valve pressure):
Standard operator: 11 ms at 90 psig
Low wattage operator: 13.5 ms at 90 psig
Exhaust port on 3-port/2-position valves: 1/2-14 PTF

Solenoid Operator Electrical Specifications
Voltage and power requirements:

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Wattage Standard Operator</th>
<th>Wattage Low Watt Operator</th>
</tr>
</thead>
<tbody>
<tr>
<td>24V/60Hz/50Hz</td>
<td>7.5</td>
<td>3.5</td>
</tr>
<tr>
<td>120V/60Hz-110V/50Hz</td>
<td>7.5</td>
<td>3.5</td>
</tr>
<tr>
<td>240V/60Hz-220V/50Hz</td>
<td>7.5</td>
<td>—</td>
</tr>
<tr>
<td>6VDC</td>
<td>—</td>
<td>3.5</td>
</tr>
<tr>
<td>12VDC</td>
<td>7.5</td>
<td>3.5</td>
</tr>
<tr>
<td>24VDC</td>
<td>7.5</td>
<td>3.5</td>
</tr>
</tbody>
</table>

Duty: Continuous at 90% to 105% of rated voltage.
Coil Type: Molded with three pin plug-in connector.
Enclosure Classification: NEMA 1, NEMA 4 and IP 65.
Connector Plug: Cable grip for cables 1/4" to 5/16" (6 to 8 mm) in diameter.
Electrical connectors conform to Industry Standard Form B for Three-Pin Electrical Plug Connectors, 11 mm spacing.
Override: Manual, locking

Materials
Body: Zinc
Pistons, Poppets: Aluminum
Elastomers: Nitrile
Operator Housing: PPS Plastic
Operator Base: Aluminum
Plunger & Spring: Stainless Steel
P74 Directional Control Valves
2-port/2-position and 3-port/2-position Air Operated Directional Control Poppet Valves

- EXCELM design allows in-line or modular installation with other 72, 73, and 74 Series products. Inlet and outlet ports are not threaded.
- 2-port/2-position valves available in normally closed or normally open functional modes. The 3-port/2-position valves available only in normally closed mode.
- Short stroke, positive sealing cushioned poppets for long service life.

Ordering Information

<table>
<thead>
<tr>
<th>Installation Type</th>
<th>Weight</th>
<th>2-Port/2-Position</th>
<th>Model Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modular</td>
<td>1.20 (0.54)</td>
<td>Normally Closed</td>
<td>P74A-NNA-NNN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Normally Open</td>
<td>P74B-NNA-NNN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Normally Closed</td>
<td>P74C-NAA-NNN</td>
</tr>
</tbody>
</table>

See [Product Numbering Chart](#) on page 87 for additional options.

Service Kit
Seal and gasket kit: 53474-37

* For valves with threaded ports, see NCA-12.
**Technical Data**

Fluids: Filtered and lubricated compressed air.
Main valve inlet pressure range: 0 to 250 psig (17.2 bar).
Pilot supply inlet pressure range: Equal to or greater than main valve inlet pressure, but not less than 30 psig (2.1 bar) and not greater than 250 psig (17.2 bar).
Operating temperature*: -20° to 130°F (-29° to 54°C).
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).
Average flow factor ($C_v$) of 2-port valves: 4.0
Average flow factor ($C_v$) of 3-port valves:
  - In-Out Ports: 2.0
  - Out-Exhaust Ports: 5.3
Pilot port: 1/4-18 PTF
Exhaust port on 3-port/2-position valves: 1/2-14 PTF

**Materials**

Body: Zinc
Pistons, Poppets: Aluminum
Elastomers: Nitrile
Operator: Aluminum

---

**Dimensions**

<table>
<thead>
<tr>
<th>Port Type</th>
<th>Measurement (inches)</th>
<th>Measurement (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Port/2-Position Valves</td>
<td>2.28  (60)</td>
<td>3.52  (89)</td>
</tr>
<tr>
<td></td>
<td>3.15  (80)</td>
<td>3.15  (80)</td>
</tr>
<tr>
<td>3-Port/2-Position Valves</td>
<td>2.28  (60)</td>
<td>3.15  (80)</td>
</tr>
<tr>
<td></td>
<td>3.83  (97)</td>
<td>3.15  (80)</td>
</tr>
<tr>
<td></td>
<td>1.75  (45)</td>
<td>1.94  (49)</td>
</tr>
</tbody>
</table>

---

**P74 Air Operated Directional Control Valves**

Dimensions in inches (mm)
P74 Directional Control Valves

3-Port/2-position Solenoid Operated Valves with Lockout

- **EXCELCOL** design allows in-line or modular installation with other 72, 73, and 74 Series products. Inlet and outlet ports are not threaded.

- High-flow, spring return 3-port/2-position, normally closed solenoid operated poppet valve.

- Combination lockout and quick exhaust valve.

- Equipped with a manually operated lockout slide that can be locked only in the closed position with a customer supplied padlock.

- Slide handle colored yellow for easy identification as a lockout valve.

- Standard internal pilot supply requires a main valve inlet pressure of 30 to 150 psig, although momentary drops below 30 psig are allowed by a check valve in the internal pilot passage.

- Optional voltages available.

- Short stroke, positive sealing, cushioned poppets for long service life.

### Ordering Information

#### Standard Models

<table>
<thead>
<tr>
<th>Installation Type</th>
<th>Weight</th>
<th>3-Port/2-Position Normally Closed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modular</td>
<td>2.03(0.92)</td>
<td>P74C-NAD-PJA</td>
</tr>
</tbody>
</table>

#### Options

- Select the desired valve from the preceding order table, then change the model number as shown in the following diagram to obtain the desired option. Also see **Product Numbering Chart** on page 87 for additional options.

- **P74C-NAD-P**

  - **Standard 7.5 Watt Coils**
    - L = 24 VAC
    - K = 240 VAC
    - Q = 12 VDC
    - P = 24 VDC

#### Service Kit

- Seal and gasket kit: 53474-40
- Moisture resistant connector seal: 54935-01
- Coil retaining clip: 54453-01
- Solenoid exhaust port diffuser: 54463-01

* For valves with threaded ports, see NA-170.
**Technical Data**

Fluids: Filtered and lubricated compressed air.  
Main valve inlet pressure range: 30 to 150 psig (2.1 to 10.3 bar)  
Operating temperature*: -20° to 120°F (-29° to 49°C).  
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).  

Average flow factor ($C_v$):  
In-Out Ports: 2.0  
Out-Exhaust Ports: 5.3  

Response times (elapsed time from solenoid energized to an increase in the main valve pressure): 11 ms at 90 psig  
Maximum diameter of customer supplied padlock shackle: 5/16” (8mm)  
Exhaust port: 1/2-14 PTF

**Solenoid Operator Electrical Specifications**

Voltage and power requirements:  
<table>
<thead>
<tr>
<th>Voltage</th>
<th>Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>24V/60Hz/50Hz</td>
<td>7.5</td>
</tr>
<tr>
<td>120V/60Hz-110V/50Hz</td>
<td>7.5</td>
</tr>
<tr>
<td>240V/60Hz-220V/50Hz</td>
<td>7.5</td>
</tr>
<tr>
<td>12VDC</td>
<td>7.5</td>
</tr>
<tr>
<td>24VDC</td>
<td>7.5</td>
</tr>
</tbody>
</table>

Duty: Continuous at 90% to 105% of rated voltage. 
Coil Type: Molded with three pin plug-in connector. 
Enclosure Classification: NEMA 1, NEMA 4 and IP 65. 
Connector Plug: Cable grip for cables 1/4” to 5/16” (6 to 8 mm) in diameter.  
Electrical connectors conform to *Industry Standard Form B for Three-Pin Electrical Plug Connectors, 11 mm spacing.*  
Override: Manual, nonlocking

**Materials**

Body: Zinc  
Pistons, Poppets: Aluminum  
Elastomers: Nitrile  
Operator Housing: PPS Plastic  
Operator Base: Aluminum  
Plunger & Spring: Stainless Steel

![3-Port/2-Position Lock Out Valves](image.png)
EXCELON design allows in-line or modular installation with other 72, 73, and 74 Series products. Inlet and outlet ports are not threaded.

Controls rate of downstream air pressure buildup at system start up.

Cylinders and other air operated devices are eased into normal starting positions, reducing the possibility of equipment damage and hazard to user.

Application of downstream pressure can be delayed for as long as 50 seconds, depending on the setting of the adjustable needle valve and downstream air volume.

Smooth start valves must be installed downstream of a directional control valve such as a Norgren Poppet or Lockout Valve on the preceding pages.

Short stroke, cushioned poppets for long service life.

**Ordering Information**

**Standard Models**

<table>
<thead>
<tr>
<th>Installation Type</th>
<th>Weight</th>
<th>Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modular</td>
<td>1.17 (0.53)</td>
<td>P74E-NNN-NNN</td>
</tr>
</tbody>
</table>

See Product Numbering Chart on page 87 for additional options.

**Service Kit**

Seal and gasket kit: 53474-37

* For valves with threaded ports, see NCA-12.
Technical Data
Fluids: Filtered and lubricated compressed air.
Inlet Pressure Range: 30 to 250 psig (2.1 to 17.2 bar).
Operating temperature*: -20° to 130°F (-29° to 54°C).
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).
Average Flow Factor (Cv): 4.0

Materials
Body: Zinc
Pistons, Poppets: Aluminum
Elastomers: Nitrile
EXCELON design allows in-line or modular installation with other 72, 73, and 74 Series products.

- High-flow, 3-port/2-position, spring return, normally closed valve

- Controls rate of downstream air pressure buildup at system start up

- Available with air or solenoid operator

- Cylinders and other air operated devices are eased into normal starting positions, reducing the possibility of equipment damage and hazards to the user.

- High exhaust flow of downstream air when electrical signal or pilot air is removed.

### Ordering Information

#### Standard Models

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Solenoid Operated Model</th>
<th>Weight lbs. (kg)</th>
<th>Air Operated Model</th>
<th>Weight lbs. (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4 PTF</td>
<td>P72F-2AC-PAA</td>
<td>2.00 (0.91)</td>
<td>P72F-2AA-NNN</td>
<td>1.93 (0.88)</td>
</tr>
<tr>
<td>3/8 PTF</td>
<td>P72F-3AC-PAA</td>
<td>1.98 (0.90)</td>
<td>P72F-3AA-NNN</td>
<td>1.91 (0.87)</td>
</tr>
</tbody>
</table>

See Product Numbering Chart on page 88 for additional options.

#### Optional Solenoid Operator

- Electrical Connector:
  - B: Cable grip with indicator lights (Use only with A and F coils)
  - C: 1/2 NPT conduit
  - N: No electrical connector

- Override:
  - S: Locking, screwdriver slot
  - N: No solenoid operator

#### Optional Threads

- B: ISO Rc taper
- G: ISO G parallel

#### Service Kits

All models – 4384-520
Technical Data

Fluid: Filtered and lubricated compressed air
Main valve inlet pressure range:
- With solenoid operator: 44 to 150 psig (3 to 10 bar)
- With air operator: 44 to 250 psig (3 to 17 bar)
Air operator pilot supply inlet pressure range: Equal to or greater than main valve inlet pressure, but not less than 44 psig (3 bar) and not greater than 250 psig (17 bar).
Operating temperature*:
- With solenoid operator: 0° to +120°F (-18° to +50°C)
- With air operator: 0° to +150°F (-18° to +65°C)
* Air supply must be dry enough to avoid ice formation at temperatures below +35°F (2°C).
Maximum flow with 90 psig (6.3 bar) inlet pressure and pressure drop of 7.25 psig (0.5 bar): 45 scfm (21 dm³/s)
Average flow factor (Cv):
- In-out ports: 1.6
- Out-exhaust ports: 1.7
Snap pressure: Full flow when downstream pressure reaches 50 to 80% of inlet pressure
Charge time for 0.53 gallon (2 litre) downstream volume at 90 psig (6.3 bar) inlet pressure: 0.8 to 76 seconds depending on setting of flow adjustment
Solenoid operator specifications:

<table>
<thead>
<tr>
<th>DC Voltage and Power</th>
<th>AC Voltage and Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 VDC, 2W</td>
<td>24 VAC, 2.5 VA</td>
</tr>
<tr>
<td>12 VDC, 2W</td>
<td>110/120 VAC, 2.5 VA</td>
</tr>
<tr>
<td>24 VDC 2W</td>
<td>220/240 VAC, 8 VA</td>
</tr>
<tr>
<td>110 VDC, 3.4W</td>
<td></td>
</tr>
</tbody>
</table>

Duty: Continuous at 90% to 110% of rated voltage.
Coil Type: Molded with three pin plug-in connector.
Enclosure Classification: NEMA 1, NEMA 4 and IP 65.

Materials

Body: Zinc alloy
Operator adapter (top) plate: Aluminum
Elastomers: Nitrile
Filter discs: Sintered plastic
Operator housing: PPS plastic
Internal components: Brass, steel

NOTE
Turn on inlet air to the valve before applying pilot signal to air or solenoid operator.

Performance Characteristics
P74F Smooth Start/Exhaust Valve

3/8", 1/2", and 3/4" Port Sizes

- EXCELEN design allows in-line or modular installation with other 72, 73, and 74 Series products.
- High-flow, 3-port/2-position, spring return, normally closed valve
- Available with air or solenoid operator
- Controls rate of downstream air pressure buildup at system start up
- Adjustable rate of downstream pressure buildup
- Cylinders and other air operated devices are eased into normal starting positions, reducing the possibility of equipment damage and hazards to the user.
- High exhaust flow of downstream air when electrical signal or pilot air is removed.
- Optional manual operated lockout slide exhausts downstream air and shuts off pilot air when closed. Can be locked in closed position with a customer supplied padlock.

Ordering Information

Model Numbers - Include PTF threads and an operator adapter plate without lockout slide. Solenoid operated valves include a non-locking manual override, 110/120 VAC coil, and a cable grip connector.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Solenoid Operated Model</th>
<th>Weight lbs.</th>
<th>Air Operated Model</th>
<th>Weight lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8 PTF</td>
<td>P74F-3AC-PAA</td>
<td>2.38 (1.08)</td>
<td>P74F-3AA-NNN</td>
<td>2.31 (1.05)</td>
</tr>
<tr>
<td>1/2 PTF</td>
<td>P74F-4AC-PAA</td>
<td>2.31 (1.05)</td>
<td>P74F-4AA-NNN</td>
<td>2.25 (1.02)</td>
</tr>
<tr>
<td>3/4 PTF</td>
<td>P74F-6AC-PAA</td>
<td>3.11 (1.41)</td>
<td>P74F-6AA-NNN</td>
<td>2.98 (1.35)</td>
</tr>
</tbody>
</table>

See Product Numbering Chart on page 88 for additional options.

Optional Solenoid Operator

- Electrical Connector
  - B Cable grip with indicator lights (Use only with A and F coils)
  - C 1/2 NPT conduit
  - N No electrical connector

- Optional Solenoid Coil
  - Voltage & Power Requirement
    - D 6 VDC, 2.0 watts
    - E 12 VDC, 2.0 watts
    - F 24 VDC, 2.0 watts
    - H 110 VDC, 3.4 watts
    - C 24 VAC, 2.5 Va
    - K 220/240 VAC, 8 VA, 50/60 Hz
    - Y No coil, with base for 2.0W
    - Z No coil, with base for 2.0W, 3.4, and 2.5 VA coils
    - N No solenoid operator

- Optional Solenoid Operator Override
  - S Locking, screwdriver slot
  - N No solenoid operator

* The locking override is not available with the D Operator Adapter Plate.
Technical Data

**Fluid:** Filtered compressed air

**Main valve inlet pressure range:**
- With solenoid operator (internal pilot): 44 to 150 psig (3 to 10 bar)
- With air operator: 44 to 250 psig (3 to 17 bar)

**Air operator pilot supply inlet pressure range:** Equal to or greater than main valve inlet pressure, but not less than 44 psig (3 bar) and not greater than 250 psig (17 bar).

**Operating temperature:**
- With solenoid operator: 0 ° to +120 ° F (-18 ° to +50 ° C)
- With air operator: 0 ° to +175 ° F (-18 ° to +80 ° C)

Air supply must be dry enough to avoid ice formation at temperatures below +35 ° F (2 ° C).

**Maximum flow with 90 psig (6.3 bar) inlet pressure and pressure drop of 7.25 psig (0.5 bar):** 121 scfm (57 dm³/s)

**Average flow factor (Cv):**
- In-out ports: 4.4
- Out-exhaust ports: 5.6

**Snap pressure:** Full flow when downstream pressure reaches 50 to 80% of inlet pressure

**Charge time for 0.53 gallon (2 litre) downstream volume at 90 psig (6.3 bar) inlet pressure:** 0.2 to 76 seconds depending on setting of flow adjustment

**Solenoid operator specifications:**
- DC Voltage and Power: 6 VDC, 2W
- AC Voltage and Power: 24 VAC, 2.5 VA
- 12 VDC, 2W
- 110 VDC, 2W: 220/240 VAC, 8 VA
- 110 VDC, 3.4W

**Duty:** Continuous at 90% to 110% of rated voltage

**Coil type:** Molded with three pin plug-in connector and CE marking

**Enclosure Classification:** NEMA 1, NEMA 4 and IP 65.

**Connector Plug:** Cable grip for cables 1/4” to 5/16” (6 to 8mm) diameter. Electrical connectors conform to Industry Standard Form B for Three-Pin Electrical Plug Connectors, 11 mm spacing.

**Solenoid Manual Override:** Locking or non-locking

**Materials**
- **Body:** Aluminum
- **Operator adapter (top) plate:** Zinc
- **Elastomers:** Nitrile
- **Filter discs:** Sintered plastic
- **Solenoid operator housing:** PPS plastic

**Dimensions – Inches (mm)**

- 1/2” Exhaust Port
- 1/2” Exhaust Port
- 1/2” Exhaust Port
- 1/2” Exhaust Port
- 1/4” Pilot Port
- 1/4” Pilot Port

**NOTE**

Turn on inlet air to the valve before applying pilot signal to air or solenoid operator.

**Typical Performance Characteristics**

<table>
<thead>
<tr>
<th>Port Size: 1/2”</th>
<th>Downstream Volume: 0.53 gallon (2 liter)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pressure</strong></td>
<td><strong>Flow</strong></td>
</tr>
<tr>
<td>Inlet Pressure</td>
<td>AIR FLOW</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>4</td>
<td>40</td>
</tr>
<tr>
<td>6</td>
<td>60</td>
</tr>
<tr>
<td>8</td>
<td>80</td>
</tr>
<tr>
<td>10</td>
<td>100</td>
</tr>
<tr>
<td>12</td>
<td>120</td>
</tr>
</tbody>
</table>

**Solenoid Operated Valve**

**Air Operated Valve**

**Solenoid Operated Valve with Lockout Slide**

**Air Operated Valve with Lockout Slide**

*Ports threaded PTF with PTF main ports, and ISO Rc with ISO Rc and ISO G main ports.*
Wall Mounting Bracket
Use to secure Excelon Series Units, except P74 and T74 Valves, to a wall, machine panel, or other flat surface.

Order Numbers Used On
72 Series – 4224-50 (except T72)
73 Series – 4424-50 (except T73)
74 Series – 4324-50 (except P74 and T74 valves, and L74 with 1-quart reservoir)
L74 w/ 1-quart reservoir – 4324-51

Use 3/16” (5mm) screws to mount bracket to wall.

Tamper Resistant Cover & Seal Wire
72 Series – 4255-51
73 Series – 4455-51
74 Series – 4355-51
Install on the adjusting knob of regulators, filter/regulators, and relief valves to help prevent unauthorized adjustment to the pressure setting. Cover can be locked in place with up to four customer supplied padlocks. Maximum diameter of the padlock shackle is 5/16” (8mm). If desired, the following lockout hasp accessory can be used with the cover.

Seal Wire
72/73/74 Series – 2117-01
Use as a replacement wire for the preceding tamper resistant cover or install under the sight-feed dome on lubricators (74 Series) to provide tamper resistant protection of the lubricator drip rate setting.

Pressure Gauges - Back Connection

<table>
<thead>
<tr>
<th>Range</th>
<th>Model Number</th>
<th>Back Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>psig (bar)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>72 Series</td>
<td>18-013-211</td>
<td>1/8 PTF</td>
</tr>
<tr>
<td>0 to 60 (0 to 4)</td>
<td>18-013-212</td>
<td>1/8 PTF</td>
</tr>
<tr>
<td>0 to 160 (0 to 10)</td>
<td>18-013-264</td>
<td>ISO R1/8</td>
</tr>
<tr>
<td>0 to 60 (0 to 4)</td>
<td>18-013-263</td>
<td>ISO R1/8</td>
</tr>
<tr>
<td>0 to 160 (0 to 10)</td>
<td>18-013-263</td>
<td></td>
</tr>
<tr>
<td>73/74 Series</td>
<td>18-013-208</td>
<td>1/4&quot; NPT</td>
</tr>
<tr>
<td>0 to 60 (0 to 4)</td>
<td>18-013-209</td>
<td>1/4&quot; NPT</td>
</tr>
<tr>
<td>0 to 160 (0 to 11)</td>
<td>18-013-210</td>
<td>1/4&quot; NPT</td>
</tr>
<tr>
<td>0 to 300 (0 to 20)</td>
<td>18-013-210</td>
<td></td>
</tr>
</tbody>
</table>

Lockout Hasp
73/74 Series – 54547-01
Use with the preceding tamper resistant cover or the P74 and T74E Lockout Valves to provide six padlock lockout capability. Locking holes accommodate padlock shackle up to 5/16” (8mm). Constructed from high-tensile, plated steel and red vinyl coated to resist rust.
Service Life Indicator Conversion Kit
F73/F74C and F73/F74G – 5797-50
Allows field conversion of service life indicators.

F73/F74 Electrical Service Indicator
F73G/F74G and F73C/F74C – 4020-51R
Allows addition of the service indicator in the field. For additional details and specifications refer to NC-846.

Panel Nut
72 Series – 4248-89 (plastic)
73 Series – 5191-88 (Zinc)
5191-89 (plastic)
74 Series – 4348-89 (Zinc)
Use to panel mount R72/R73/R74 Regulators, B72/B73/B74 Filter/Regulators, and V72/V74 Relief Valves.

Quikclamp
72 Series – 4214-51
73/74 Series – 4314-51
Maximum Pressure: 250 psig (17 bar)
Maximum Temperature –
72 Series: 150°F (65°C)
73/74 Series: 175°F (79°C)
Use with all Excelon Series Products to provide modular installation capability. Flanges on the products slide into V grooves in the Quikclamp. Two face-sealing o-rings in the Quikclamp provide a positive seal when the clamp is closed and the captive screw is tightened.

Note
72 Series Quikclamp adds: 0.26” (6.5 mm) to the overall length of a combination unit.
Tighten 72 Series screw with a 3 mm hex wrench or a T15 Torx wrench.

73/74 Series Quikclamp adds: 0.54” (13.6 mm) to the overall length of a combination unit.
Tighten 74 Series screw with a 5/32” (4 mm) hex or a T25 Torx wrench.

72 Series Service Kit (contains 2 O-Rings): 4384-570
73/74 Series Service Kit (contains 2 O-Rings): 4384-770

Porting Block
Installs between two Quikclamps to provide three additional 1/4” outlets for auxiliary air.

Note
72 Series Porting Block adds: 1.13” (28.6 mm) to the overall length of a combination unit.
73/74 Series Porting Block adds: 1.30” (33 mm) to the overall length of a combination unit.

Auxiliary Port Size & Thread Part Number
72 Series
1/4” PTF 4216-01
1/4” ISO G 4216-03
1/4” ISO Rc 4216-02
73/74 Series
1/4” PTF 4316-02
1/4” ISO Rc 4316-04
1/4” ISO G 4316-06

72/74 Series – 4214-51
73/74 Series – 4314-51
Maximum Pressure: 250 psig (17 bar)
Maximum Temperature –
72 Series: 150°F (65°C)
73/74 Series: 175°F (79°C)
Use with all Excelon Series Products to provide modular installation capability. Flanges on the products slide into V grooves in the Quikclamp. Two face-sealing o-rings in the Quikclamp provide a positive seal when the clamp is closed and the captive screw is tightened.

Note
72 Series Quikclamp adds: 0.26” (6.5 mm) to the overall length of a combination unit.
Tighten 72 Series screw with a 3 mm hex wrench or a T15 Torx wrench.

73/74 Series Quikclamp adds: 0.54” (13.6 mm) to the overall length of a combination unit.
Tighten 74 Series screw with a 5/32” (4 mm) hex or a T25 Torx wrench.

72 Series Service Kit (contains 2 O-Rings): 4384-570
73/74 Series Service Kit (contains 2 O-Rings): 4384-770

Porting Block
Installs between two Quikclamps to provide three additional 1/4” outlets for auxiliary air.

Note
72 Series Porting Block adds: 1.13” (28.6 mm) to the overall length of a combination unit.
73/74 Series Porting Block adds: 1.30” (33 mm) to the overall length of a combination unit.

Auxiliary Port Size & Thread Part Number
72 Series
1/4” PTF 4216-01
1/4” ISO G 4216-03
1/4” ISO Rc 4216-02
73/74 Series
1/4” PTF 4316-02
1/4” ISO Rc 4316-04
1/4” ISO G 4316-06
Quikmount Pipe Adapters

<table>
<thead>
<tr>
<th>Port Size and Thread</th>
<th>Part No. (Quantity of 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>72 Series</strong></td>
<td></td>
</tr>
<tr>
<td>1/4” PTF</td>
<td>4215-02</td>
</tr>
<tr>
<td>3/8” PTF</td>
<td>4215-03</td>
</tr>
<tr>
<td>1/4” ISO Rc</td>
<td>4215-05</td>
</tr>
<tr>
<td>3/8” ISO Rc</td>
<td>4215-06</td>
</tr>
<tr>
<td>1/4” ISO G</td>
<td>4215-08</td>
</tr>
<tr>
<td>3/8” ISO G</td>
<td>4215-09</td>
</tr>
<tr>
<td><strong>73/74 Series</strong></td>
<td></td>
</tr>
<tr>
<td>1/4” PTF</td>
<td>4315-01</td>
</tr>
<tr>
<td>3/8” PTF</td>
<td>4315-02</td>
</tr>
<tr>
<td>1/2” PTF</td>
<td>4315-03</td>
</tr>
<tr>
<td>3/4” PTF</td>
<td>4315-04</td>
</tr>
<tr>
<td>1/4” ISO Rc</td>
<td>4315-05</td>
</tr>
<tr>
<td>3/8” ISO Rc</td>
<td>4315-06</td>
</tr>
<tr>
<td>1/2” ISO Rc</td>
<td>4315-07</td>
</tr>
<tr>
<td>3/4” ISO Rc</td>
<td>4315-08</td>
</tr>
<tr>
<td>1/4” ISO G</td>
<td>4315-09</td>
</tr>
<tr>
<td>3/8” ISO G</td>
<td>4315-10</td>
</tr>
<tr>
<td>1/2” ISO G</td>
<td>4315-11</td>
</tr>
<tr>
<td>3/4” ISO G</td>
<td>4315-12</td>
</tr>
</tbody>
</table>

Use with the Quikclamp to provide threaded connections to the system piping.

**Note**
72 Series pipe adapter adds: 0.63” (15.9 mm) to the overall length of a combination unit.

73/74 Series pipe adapter adds: 0.71” (18 mm) to the overall length of a combination unit.

---

Subbase Mounted Pressure Switch

Monitors air pressure and provides an electrical output when the pressure drops below or exceeds an adjustable preset pressure. Installs between two Quikclamps. Also provides three additional 1/4” auxiliary outlets.

A Subbase Mounted Pressure Switch adds 1.13” (28.6mm) to the overall length of a combination unit.

**Specifications**
- Maximum Inlet Pressure: 250 psig (17 bar)
- Maximum Temperature: 150°F (65°C)
- Adjustable Range: 30 to 150 psig (2 to 10 bar). Shipped from factory preset at 90 psig (6.2 bar).
- Maximum Voltage: 240VAC/DC
- Maximum Current: 5 Amp
- Hysteresis at Midpoint: 12%

**Auxiliary Port Threads**
- 1/4” PTF
- 1/4” ISO Rc
- 1/4” ISO G
- Replacement Switch

**Replacement Pressure Switch**
Use only with the pressure switch subbase. Cannot be used with the standard porting block.

**Specifications**
- Maximum Inlet Pressure: 250 psig (17 bar)
- Maximum Temperature: 150°F (65°C)
- Adjustable Range: 30 to 150 psig (2 to 10 bar). Shipped from factory preset at 90 psig (6.2 bar).
- Maximum Voltage: 240VAC/DC
- Maximum Current: 5 Amp
- Hysteresis at Midpoint: 12%

**Part Numbers**
- **72 Series**
  - 4246-50
  - 4246-51
  - 4246-52
  - 4246-01

- **73/74 Series**
  - 4346-50
  - 4346-51
  - 4346-52
  - 4346-01

---

Quikclamp Wall Mounting Bracket

Use with the preceding Quikclamp to provide secure mounting to a wall, machine panel or other flat surface.

**72 Series** – 4213-89
Use 3/16” (5 mm) screws to mount bracket to wall.

**73/74 Series** – 4313-50
Use 7/32” (6 mm) screws to mount bracket to wall.

**Dimensions in Inches (mm)**
- **A**  2.32 (59)
- **B**  0.55 (14)
- **C**  2.91 (74)

**Replacement Switch**
Use only with the pressure switch subbase. Cannot be used with the standard porting block.

**Part Numbers**
- **4213-89**
  - 4.25 (108)
  - 1.13 (28.6)

- **4313-50**
  - 3.25 (83)
  - 0.95 (24)
  - 4.0 (102)

---

**Dimensions in Inches (mm)**
- **A**  1.50 (38)
- **B**  2.00 (51)
### Manifold Block
Installs with Quikclamps. Ports are threaded to provide manifolding capability for up to three components.

<table>
<thead>
<tr>
<th>Port Threads</th>
<th>Part Number</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>72 Series</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/8” PTF</td>
<td>4228-01</td>
<td>1.76 (44.6)</td>
<td>1.98 (50.3)</td>
</tr>
<tr>
<td>3/8” ISO R_c</td>
<td>4228-02</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/8” ISO G</td>
<td>4228-03</td>
<td></td>
<td></td>
</tr>
<tr>
<td>73/74 Series</td>
<td></td>
<td>2.25 (57.0)</td>
<td>3.15 (80)</td>
</tr>
<tr>
<td>3/4” PTF</td>
<td>4328-50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4” ISO R_c</td>
<td>4328-52</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4” ISO G</td>
<td>4328-53</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Tamper Resistant Snap-On Cap
72/73 Series – 4050-89
Install on lubricator sight feed-dome to help prevent unauthorized adjustment to the oil drip rate setting. Can not be used with the optional Pyrex/Aluminum sight-feed dome.

### Neck Mount Bracket Kit
(includes panel mount nut)
R72/B72 – 74316-50
Use to wall mount R72 Regulators and B72 Filter/Regulators.
R73/B73 – 4461-50
Use to wall mount R73 Regulators and B73 Filter/Regulators.
R74/B74 – 4368-51
Use to wall mount R74 Regulators and B74 Filter/Regulators

### Transition Adapter
72/73/74 Series – 4417-01
Installs between a 72 Series and a 73/74 Series Quikclamp to provide modular connection of 72 products with 73 and 74 products.
A reducing adapter adds 0.06” (1.5 mm) to the overall length of a combination unit.

### Vibration Resistant Washer
74 Series – 4361-89
Pushes on the bowl when there is no pressure to prevent loosening during periods of non-pressurized high vibration.
F72G/F73G/74G Product Numbering System

Sample Model Number .................

Position ................................

1 Unit

2 3 Series

4 Filter Type

Elastomer Materials

G = General Purpose Filter,
Nitrile elastomers

F = General Purpose Filter,
Fluorocarbon elastomers

5 Port Size

6 Thread Form

A = NPT
B = ISO Rc taper
G = ISO G parallel

7 Service Life Indicator

D = With service life indicator
E = With electrical service life indicator
N = Without service life indicator

8 Drain

A = Automatic*
S = Semiautomatic (72)
Q = Manual, 1/4 turn

9 Bowl

D = Metal with liquid level indicator
R = Metal with pyrex liquid level indicator
T = Transparent (72, 73)
L = Long transparent (72)
P = Transparent with guard (73, 74)
W = Long transparent with guard (72)

10 Element

1 = 5 µm
2 = 25 µm
3 = 40 µm
4 = 75 µm (74)

*Requires “L” or “W” bowls on 72 Series

(72) 72 Series
(73) 73 Series
(74) 74 Series
<table>
<thead>
<tr>
<th>Sample Model Number</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Unit</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Series</strong></td>
<td>72 Series Basic 1/4&quot;</td>
<td>73 Series Basic 3/8&quot;</td>
<td>74 Series Basic 1/2&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Filter Type</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Elastomer Materials</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Port Size</strong></td>
<td>2 = 1/4&quot; (72, 73)</td>
<td>3 = 3/8&quot;</td>
<td>4 = 1/2&quot; (73, 74)</td>
<td>6 = 3/4&quot; (74)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Thread Form</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Service Life Indicator</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Drain</strong></td>
<td>A = Automatic *</td>
<td>Q = Manual, 1/4 turn</td>
<td>S = Semiautomatic (72)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Bowl</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Element</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Requires “L” or “W” bowls on 72 Series

* Indicates that certain components are required for specific series.
F74V Product Numbering System
74 Series only

Sample Model Number

Position

1 Unit
2 3 Series
4 Filter Type, Elastomer Materials
5 Port Size
6 Thread Form
7 Service Life Indicator
8 Drain
9 Bowl
10 Element

F74V - 4AN - EMA

1 2 3 4 - 5 6 7 - 8 9 10

F = Filter
74 Series = Basic 1/2”
V = Oil Vapor Removal Filter, Nitrile elastomers
3 = 3/8”
4 = 1/2”
6 = 3/4”
A = PTF
B = ISO Rc taper
G = ISO G parallel
N = Without service life indicator
E = Closed bottom
M = Metal without sight glass
A = Adsorbing
R72G/R73G/R74G Product Numbering System

Sample Model Number

- **R**7**4**G - **4**A**K** - **R**M**G**

1. **Unit**
   - R = Regulator

2. **Series**
   - 72 Series = Basic 1/4"
   - 73 Series = Basic 3/8"
   - 74 Series = Basic 1/2"

3. **Regulator Type**
   - G = General Purpose, Standard Flow
   - M = General Purpose, Manifolding (72)
   - R = General Purpose, Reverse Flow

4. **Port Size**
   - 2 = 1/4" (72, 73)
   - 3 = 3/8"
   - 4 = 1/2" (73, 74)
   - 6 = 3/4" (74)

5. **Thread Form**
   - A = PTF
   - B = ISO Rc taper
   - G = ISO G parallel

6. **Position**
   - 1
   - 2 3 Series
   - 4 Regulator Type
   - 5 Port Size
   - 6 Thread Form
   - 7 Adjustment
   - 8 Relief Type, Elastomer material
     - R = Relieving, nitrile
     - N = Nonrelieving, nitrile
     - F = Relieving, fluorocarbon
     - E = Nonrelieving, fluorocarbon
   - 9 Spring
     - F = 60 psig (4 bar)
     - M = 150 psig (10 bar)
     - S = 250 psig (17 bar) (73)
   - 10 Gauge
     - G = With gauge
     - N = Without gauge

---

(72) 72 Series
(73) 73 Series
(74) 74 Series
L72/L73 Product Numbering System

Sample Model Number

Position

1 Unit

2 3 Series

4 Lubricator Type & Elastomer Materials

5 Port Size

A = PTF

B = ISO Rc taper

G = ISO G parallel

6 Thread Form

2 = 1/4”

3 = 3/8”

4 = 1/2” (73)

7 Flow type

P = Uni-directional

8 Drain Opening

E = Closed bowl

Q = Manual, 1/4 turn

D = Manual, petcock

D = Manual, petcock

9 Reservoir

D = Metal with liquid level indicator

L = Long transparent (72)

P = Transparent with guard (73)

T = Transparent

R = Metal with Pyrex liquid level indicator

W = Long transparent with guard (72)

R = Metal with pyrex liquid level indicator

N = Plastic dome, Standard fill plug

P = Pyrex dome, standard fill plug (73)

Q = Plastic dome, Quick fill cap (73)

N = Plastic dome, Standard fill plug

P = Pyrex dome, Standard fill plug

10 Options

* “R” bowl only

L72/L73 Series

72 Series = Basic 1/4”

73 Series = Basic 3/8”

72 Series

73 Series
V72G/V74G Product Numbering System

Sample Model Number

<table>
<thead>
<tr>
<th>Position</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Unit</td>
</tr>
<tr>
<td>2</td>
<td>Series</td>
</tr>
<tr>
<td>3</td>
<td>Relief Valve Type</td>
</tr>
<tr>
<td>4</td>
<td>Port Size</td>
</tr>
<tr>
<td>5</td>
<td>Thread Form</td>
</tr>
<tr>
<td>6</td>
<td>Adjustment</td>
</tr>
<tr>
<td>7</td>
<td>Relief Type, elastomer material</td>
</tr>
<tr>
<td>8</td>
<td>Spring</td>
</tr>
<tr>
<td>9</td>
<td>Gauge</td>
</tr>
</tbody>
</table>

- **Unit (1)**: V = Relief Valve
- **Series (2 3)**: 72 Series = Basic 1/4" 74 Series = Basic 1/2"
- **Relief Valve Type (4)**: G = General Purpose
- **Port Size (5)**: 2 = 1/4" (72) 3 = 3/8" 4 = 1/2" (74) 6 = 3/4" (74)
- **Thread Form (6)**: A = PTF B = ISO Rc taper G = ISO G parallel
- **Adjustment (7)**: K = Knob T = T-handle
- **Relief Type, elastomer material (8)**: N = Non-relieving Neoprene
- **Spring (9)**: F = 60 psig (4 bar) M = 150 psig (10 bar) S = 250 psig (17 bar) (74)
- **Gauge (10)**: G = With gauge N = Without gauge

Sample Model Number: V 7 4 G - 4 A K - N M N

1 2 3 4 - 5 6 7 - 8 9 10
### T72/T73/T74 Product Numbering System

- **72 Series**
- **73 Series**
- **74 Series**

#### Sample Model Number

<table>
<thead>
<tr>
<th>Unit</th>
<th>Series</th>
<th>Type</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>T</td>
<td>7</td>
<td>E</td>
<td>1 2 3 4</td>
</tr>
</tbody>
</table>

- **T** = Shut-Off Valve
- **72 Series** = Basic 1/4"
- **73 Series** = Basic 3/8"
- **74 Series** = Basic 1/2"

#### B = 2-port/2-position (2-way), padlocks in closed position only, black slide, exhaust not tapped.

#### E = 3-port/2-position (3-way), padlocks in closed position only, yellow slide, exhaust not tapped.

#### T = 3-port/2-position (3-way), padlocks in closed position only, red slide, exhaust tapped

#### Port Size

<table>
<thead>
<tr>
<th>2</th>
<th>3</th>
<th>4</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; (72, 73)</td>
<td>3/8&quot;</td>
<td>1/2&quot; (73, 74)</td>
<td>3/4&quot; (74)</td>
</tr>
</tbody>
</table>

#### Thread Form

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPT</td>
<td>ISO Rc taper</td>
<td>ISO G parallel</td>
</tr>
</tbody>
</table>

#### Porting

- A = Threaded inlet and outlet

#### Actuation

- P = Gate valve

#### Elastomer materials

- 1 = Nitrile

#### Options

- N = None
- S = Silencer
- D = Diffuser (72, 73)
### Sample Model Number:

<table>
<thead>
<tr>
<th>Position</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>H 7 4 A</td>
<td>3</td>
<td>A</td>
<td>B</td>
<td>A</td>
<td>D</td>
<td>1</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>D</td>
<td>M</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **H**: Standard combination
- **J**: Lockout valve on inlet
- **M**: Quikmount pipe adapters
- **N**: Lockout valve on inlet, Quikmount pipe adapter on outlet

### Series:

<table>
<thead>
<tr>
<th>72 Series</th>
<th>73 Series</th>
<th>74 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic 1/4&quot;</td>
<td>Basic 3/8&quot;</td>
<td>Basic 1/2&quot;</td>
</tr>
</tbody>
</table>

### Filter Type:

- **A**: General Purpose and Coalescing filters, with standard body
- **B**: General purpose and coalescing filters, with high flow body
- **F**: General Purpose, coalescing and adsorbing filters, with standard body

### Port Size:

- **2**: 1/4" (72, 73)
- **3**: 3/8"
- **4**: 1/2" (73, 74)
- **6**: 3/4" (73, 74)
- **1** = 5 µm

### Thread Form:

- **A**: NPT
- **B**: ISO Rc
- **G**: ISO G

### Service Life Indicator:

- **B**: Service Life Indicator on both General Purpose & Coalescing
- **C**: Service Life Indicator only on Coalescing Filter
- **D**: Service Life Indicator only on General Purpose Filter
- **N**: No Service Life Indicator

### General Purpose and Coalescing Filter Drains:

- **D**: Metal w/liquid level indicator
- **L**: Long transparent (72)
- **P**: Transparent w/guard (73, 74)
- **T**: Transparent (72, 73)
- **W**: Long transparent w/guard (72)

### General Purpose Filter Bowl:

- **D**: Metal w/liquid level indicator
- **L**: Long transparent (72)
- **P**: Transparent w/guard
- **T**: Transparent (72, 73)
- **W**: Long transparent w/guard (72)

### General Purpose Filter Element:

- **1** = 5 µm

- **N**: No regulator

### Regulator Option:

- **B**: Brackets

### Coalescing Filter Bowl:

- **D**: Metal w/liquid level indicator
- **L**: Long transparent (72)
- **P**: Transparent w/guard (73, 74)
- **T**: Transparent (72, 73)
- **W**: Long transparent w/guard (72)

### Vapor Removal Filter Bowl:

- **N**: No vapor removal filter

- **M**: Metal, no liquid level indicator, closed bottom

### Mounting:

- **B**: Brackets

*Requires "L" or "W" bowls on 72 Series*
### 72/73/74 F-R-L Combination Units

#### Sample Model Number

<table>
<thead>
<tr>
<th>Unit</th>
<th>Series</th>
<th>Combination Type</th>
<th>Port Size</th>
<th>Thread Form</th>
<th>Adjustment</th>
<th>Drain</th>
<th>Filter Bowl</th>
<th>Element</th>
<th>Relief Type</th>
<th>Spring</th>
<th>Gauge</th>
<th>Lubricator Drain</th>
<th>Lubricator Bowl Type</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2, 3</td>
<td>H = Micro-Fog F-R-L Combo</td>
<td>1 = 1/4&quot; (72, 73)</td>
<td>A = NPT</td>
<td>A = Automatic**</td>
<td>D = Metal w/liquid level indicator</td>
<td>F = 60 psig (4 bar)</td>
<td>N, B, D, Q, A, C, F, H, K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>J = Oil-Fog F-R-L Combo</td>
<td>2 = 1/4&quot; (72, 73)</td>
<td>B = ISO Rc</td>
<td>Q = Manual, 1/4 turn</td>
<td>L = Long transparent (73, 74)</td>
<td>M = 150 psig (10 bar)</td>
<td>N, B, D, Q, A, C, E, H</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>K = Micro-Fog F-R-L Combo*</td>
<td>3 = 1/2&quot; (73, 74)</td>
<td>G = ISO G</td>
<td>S = Semi automatic (72)</td>
<td>P = Transparent w/guard (73, 74)</td>
<td>S = 250 psig (17 bar)</td>
<td>** Requires &quot;L&quot; or &quot;W&quot; bowls on 72 Series</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>L = Oil-Fog F-R-L Combo* w/porting block between</td>
<td>4 = 3/4&quot; (74)</td>
<td></td>
<td></td>
<td>T = Transparent (72, 73)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Notes:
- 72 Series = Basic 1/4"
- 73 Series = Basic 3/8"
- 74 Series = Basic 1/2"
- ** Requires "L" or "W" bowls on 72 Series

---

** Requires "L" or "W" bowls on 72 Series
P74 Product Numbering System

74 Series only

Sample Model Number: P 7 4 C - N N C - S J A

Position: 1 2 3 4 - 5 6 7 - 8 9 10

1 Unit

P = Poppet Valve

2 Series

74 Series = Basic 1/2" Valves

3 Poppet Valve Type

Painted Yellow

C = 3-port/2-position, normally closed, with lockout

Painted Black

A = 2-port/2-position, normally closed

B = 2-port/2-position, normally open

C = 3-port/2-position, normally closed

Painted Black

E = 2-port/2-position, normally closed, with smooth start

4 Port Size

N = None

5 Thread Form

N = None

6 Operator

D = Solenoid, internal air pilot with lockout

C = Solenoid, internal air pilot

7 Manual Override

P = Nonlocking, push button

S = Locking, screwdriver slot

8 Coil

Standard 7.5 Watt Coils

L = 24 VAC

J = 120 VAC

K = 240 VAC

Q = 12 VDC

P = 24 VDC

Optional 3.5 Low Watt Coils

C = 24 VAC

A = 120 VAC

D = 6 VDC

E = 12 VDC

F = 24 VDC

9 Connector

A = Cable grip

B = Molded cable with indicator lights

§ A and F coils only.

N = None

10 Connector

A = Cable grip
P72F/P74F Product Numbering System

(72) 72 Series
(74) 74 Series

Sample Model Number..........................→ P 7 4 F - 4 A D - P A A

--- Position ..........................→
1 Unit
2 3 Series
1 2 3 4 - 5 6 7 - 8 9 10
P = Poppet Valve
72 Series = Basic 1/4"
74 Series = Basic 1/2"
F = 3-port/2-position
normally closed, with
smooth start
2 1/4" (72)
3 3/8"
4= 1/2" (74)
6 = 3/4" (74)

4 Poppet Valve Type
A = NPT, (yellow slide)†
B = ISO Rc taper, (red slide)†
G = ISO G parallel, (red slide)†

5 Port Size
2 = 1/4" (72)
3 = 3/8"
4 = 1/2" (74)
6 = 3/4" (74)

6 Thread Form (slide color)†
A = Solenoid, internal air pilot
C = Solenoid, internal air pilot
B = Air with lockout slide (74)
D = Solenoid, internal air pilot
with lockout slide (74)

7 Operator
D = Solenoid, internal air pilot
C = Solenoid, internal air pilot
B = Air with lockout slide (74)
A = Air

8 Manual Override
P = Nonlocking, push button
S = Locking, screwdriver slot ‡
N = None

9 Coil
Voltage Nominal Power
A 110/120V 50/60 Hz 2.5 VA
F 24 VDC 2.0W
E 12 VDC 2.0W
D 6 VDC 2.0 W
C 24V 50/60 Hz 2.5 VA
K 220/240V 50/60 Hz 8.0 VA
N = None

10 Connector
A = Cable grip
B = Cable grip with
indicator light §
C = 1/2" conduit
N = None

† Slide color applies only when a lockout slide is specified by a B or D in the 7th position.
‡ The locking override is not available with the D Operator Adapter Plate.
§ A and F coils only.
Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under Specifications.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult Norgren.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure modes. System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

Limited Warranty, Disclaimer & Limitation of Remedies

Items sold by Norgren are warranted to be free from defects in materials and workmanship for a period of two years from the date of manufacture, provided said items are used according to Norgren’s recommended usages and within Norgren’s specifications. Norgren’s liability is limited to the repair of, or replacement in kind of, at Norgren’s sole option, any items proved defective, provided these items are returned to Norgren prepaid. To confirm date of purchase, invoice date or invoice number must be furnished; otherwise, date code on product will be used to determine eligibility for warranty coverage. The warranties expressed above are in lieu of and exclusive of all other warranties.

There are no other warranties, expressed or implied, except as stated herein. There are no implied warranties of merchantability or fitness for a particular purpose, which are specifically disclaimed. Norgren’s liability for breach of warranty as herein stated is the exclusive remedy, and in no event shall Norgren be liable or responsible for incidental or consequential damages, even if the possibility of such incidental or consequential damages has been made known to Norgren.

Norgren reserves the right to discontinue manufacture of any product or change product materials, design, or specifications without notice.