In the varied market of air preparation products, Norgren sets itself apart by offering reliable, easy to use modular and inline products which will last for years of service. Our Excelon® and Olympian® Series air prep products are in use in multiple industry sectors such as Life Science, Packaging, and Transportation. Norgren’s products offer premium and durable appearance, unprecedented flexibility and ease of use, unmatched machine uptime, and best-in-class performance.
### Excelon® Modular system filters

#### Filter/Regulator-Lubricator boxed sets
- **F72G, F73G, F74G**
  - General purpose filters
  - 1/4" to 3/4"
  - 250 psig*
  - -30°F to 175°F*

- **F92G Excelon PRO**
  - General purpose filter
  - 1/4"
  - 175 psig*
  - -4°F to 125°F*

#### Oil removal filters
- **F72C, F73C, F74C, F74H**
  - 1/4" to 3/4"
  - 250 psig*
  - -30°F to 150°F*

- **F92C Excelon PRO**
  - Oil removal filter
  - 1/4"
  - 116 psig
  - -4°F to 125°F*

- **F72V, F74V**
  - Oil vapor removal filter
  - 1/4", 1/2", 3/4"
  - 250 psig*
  - 0°F to 150°F*

- **B92G Excelon PRO**
  - Filter/regulator
  - 1/4"
  - 175 psig*
  - -4°F to 125°F*

#### General purpose filters
- **R72G, R73G, R74G**
  - 1/4" to 3/4"
  - 300 psig
  - -30°F to 175°F*

- **R92G Excelon PRO**
  - 1/4"
  - 175 psig
  - -4°F to 140°F*

### Excelon Modular system pressure regulators

- **B72G, B73G, B74G**
  - Filter/regulators
  - 1/4" to 3/4"
  - 250 psig*
  - -30°F to 175°F*

- **B92G Excelon PR**
  - Filter/regulator
  - 1/4"
  - 175 psig*
  - -4°F to 125°F*

### Excelon Modular system oil and micro-fog lubricators

- **L72M/C, L73M/C, L74M/C**
  - 1/4" to 1/2"
  - 250 psig*
  - -30°F to 175°F*

- **L92C Excelon PRO**
  - 1/4"
  - 175 psig
  - -4°F to 125°F*

---

* See catalog page
AIR LINE EQUIPMENT

Excelon Modular pressure relief valves

V72G, V74G
1/4" to 3/4"
300 psig
-30°F to 175°F*

ALE-26

Excelon combination units

H72G/C, H73G/C, H74G/C
Filter-Filter
1/4" to 3/4"
150 psig*
-30°F to 150°F*

B72/L72, B73/L73, B74/L74
Filter/Regulator-
Lubricator
1/4" to 3/4"
250 psig*
0°F to 150°F*

C72A, C73A, C74A
Filter-Regulator-
Lubricator
1/4" to 3/4"
250 psig*
-30°F to 175°F*

C72C, C73C, C74C
Filter-Lubricator
1/4" to 3/4"
250 psig*
-30°F to 175°F*

ALE-28

ALE-29

ALE-30

ALE-31

Excelon Smooth start, Directional, and Lockout Valves

P72F, P74F, P74F-AD
Smooth Start/exhaust
1/4" to 3/4"
150 psig
0°F to 175°F*

P92E, P72C/E, P74E, P74
Smooth Start valves
1/4" to 1/2"

P92C, P74
1/4" to 1/2"
Directional Control valves, threaded and unthreaded ports

T92, T72, T73, T74,
Smooth Start/exhaust
1/4" to 3/4"
250 psig
-30°F to 175°F

* See catalog page
**Olympian Plus Modular system filters**

- **F64G, F68E**
  - General purpose filters
  - 1/2", 1"
  - 250 psig*
  - -30°F to 175°F*

- **F64C/H, F68C/H**
  - Oil removal filters
  - 1/4" to 1"
  - 240 psig*
  - -30°F to 125°F*

**Olympian Plus Modular system regulators**

- **R64G, R68G**
  - General purpose
  - 1/2" to 1-1/2"
  - 250 psig*
  - -30°F to 175°F*

**Olympian Plus Modular system lubricators**

- **L64M/C, L68M/C**
  - 1/2" to 1-1/2"
  - 250 psig*
  - -30°F to 175°F*

**Olympian Plus Modular pressure relief valves**

- **V64H, V68H**
  - 1/2" to 1-1/2"
  - 300 psig*
  - -30°F to 175°F*

**Olympian Plus Modular smooth start/exhaust valves**

- **P64F, P68F**
  - 1/2" to 1-1/2"
  - 250 psig
  - 0°F to 175°F

**Olympian Plus Modular lockout valves**

- **T64, T68**
  - 1/4" to 3/4"
  - 250 psig
  - 0°F to 175°F

*N See catalog page*
**Miniature Series**

Series PTH
Filter/Regulator-lubricator
1/8" - 1/4"
250 psig*
0°F to 150°F*

F07
General purpose filter
1/8", 1/4"
250 psig*
-30°F to 175°F*

F39
Oil removal filter
1/8", 1/4"
250 psig*
-30°F to 150°F*

**Ported inline FRL’s**

R07, R46
General purpose regulator
1/8", 1/4"
300 psig*
-30°F to 150°F*

B07, B39
Filter/Regulators
1/8", 1/4"
250 psig*
-30°F to 150°F*

L07
Micro-fog lubricator
1/8", 1/4"
250 psig*
0°F to 175°F*

**ALE-58**

**ALE-60**

**ALE-61**

**ALE-62**

**ALE-64**

**ALE-66**

**ALE-68**

**ALE-69**

**ALE-70**

**ALE-71**

**ALE-72**

* See catalog page
**Pressure, Micro-Trol, and Instrument Regulators**

- **11-002 & 20AG** Pressure regulator
  - 1/4", 3/8", 1/2"
  - G3/4, G1
  - 400 psig
  - -30°F to 175°F

- **R24** Micro-Trol pressure regulator
  - 1/4" to 1-1/4"
  - 300 psig
  - 0°F to 150°F

- **11-018** Precision regulator
  - 1/4"
  - 200 psig*
  - 32°F to 160°F

**R38 Instrument, and B38 filter/regulator**

- 1/4"
- 290 psig
- -40°F to 175°F

**Pilot and Feedback Regulators**

- **R40, R41** Pilot, and Feedback
  - 1/4"
  - 450 psig
  - 0°F to 175°F

- **11-400, 20AL** Pilot Feedback
  - 1/4"
  - 360 psig
  - 0°F to 175°F

- **11-104** Feedback pilot
  - 1/4"
  - 400 psig
  - 0°F to 175°F

**Manifolding Regulators**

- **R72M, R74M**
  - 1/4" - 3/4"
  - 250 psig
  - -30°F to 150°F

- **R30M**
  - 8 mm, 10 mm
  - 150 psig
  - 23°F to 104°F

* See catalog page
**Stainless Steel products**

- **R05, B05**
  - Regulator, and filter/regulator
  - 1/4"
  - 300 psig
  - -30°F to 150°F*^^

- **R38, B38**
  - Regulator, and filter/regulator
  - 1/4", 1/2"
  - 450°F
  - -40°F to 175°F

- **F22, R22, L22**
  - Filter, Regulator, Lubricator
  - 1/2"
  - 250 psig
  - 0°F to 175°F

**Water or Air Regulators**

- **R06**
  - Brass miniature
  - 1/8", 1/4"
  - 400 psig
  - -30°F to 150°F*^^

- **R14, R16**
  - Miniature, preset, nonadjustable
  - 1/8", 1/4"
  - 400 psig
  - -30°F to 150°F

- **11 044**
  - Pressure regulator
  - 1/4" tube connection
  - 250 psig
  - -30°F to 150°F*^^

**Inline Micro-Fog and Oil Fog lubricators**

- **L17**
  - 3/4" to 1-1/2"
  - 250 psig
  - 0°F to 175°F

- **10-028, 10-076**
  - Oil-fog
  - 1-1/2", 2"
  - 250 psig
  - 0°F to 175°F

* See catalog page

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Pressure relief valves

V07, 16-004, V06
1/8", 1/4"
300 psig
-30°F to 200°F*

ALE-116

Inline Lockout Valves

C00
1/4" to 1-1/2"
300 psig
-20° to 175°F

ALE-118

UL Listed Regulators

R44, R83
1/8", 1/4"
250 psig
-30°F to 140°F

ALE-120

R81, R82, R84
Soft drink, beer dispensing
1/4"
3000 psig
0°F to 140°F

ALE-122

Additional Products

CS13, CS15
Coalescing exhaust silencers
1/4" - 1-1/2"

ALE-124

17-001
High pressure needle valves
1/8", 1/4"

ALE-124

17-016
Drip leg drain
1/2"

ALE-124

18-013, 5PG
Gauges

ALE-125

BS Series
 Blow guns
1/8", 1/4"

ALE-125

Dryers

ALE-126

Air Prep Accessories

ALE-129

* See catalog page
DEMAND MORE FLEXIBILITY WITH NORGREN’S

Excelon Pro Design Advantage

» Design flexibility
   Excelon Pro’s ease of assembly allows last minute changes in product configuration.

» Aesthetic appearance
   Excelon Pro units have a contemporary, modern appearance designed to enhance any product or application.

» Small Footprint
   The compact unit size coupled with integrated fitting connections make the Excelon Pro the most compact unit in its class.

» Ease of Installation
   Innovative patent pending connection design combined with integral mounting brackets make the Excelon Pro user friendly and easy to install.

» Integrated fittings
   Integrated fittings reduce installation time, minimize leak paths, and reduce overall footprint dimensions. Offered in 1/4”, 3/8”, 1/2”, 6 mm, 8 mm, 10 mm and 12 mm sizes.

» Flow performance
   Patent pending valve provides breakthrough flow capacity. Maximum flow for such a compact product.
Excelon® Filter/Regulator-Lubricator Boxed Sets
B72/L72, B73/L73, B74/L74

Boxed sets are an excellent and attractive marketing tool for counter displays.
True modularity with Norgren Quikclamp® connections
Quick release bayonet bowl
Lubricator flow sensor provides a nearly constant oil/air ratio over a wide range of air flows
All around (360°) visibility of the lubricator sight-feed dome simplifies installation and adjustment
Regulator balanced valve minimizes effect of variation in the inlet pressure on the outlet pressure

Technical data
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum pressure:
Transparent bowl: 150 psig (10 bar)
Metal bowl (manual or semi automatic drain): 250 psig (17 bar)
(72) 150 psig (10 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).

Particle removal:
40 µm filter element

Materials
Body: zinc or aluminum
Bonnet: acetal or aluminum
Bowl:
Metal bowl: (72) polycarbonate (73, 74) aluminum
Metal bowl liquid level indicator lens: transparent nylon
Sight-feed dome: transparent nylon
Element: sintered polypropylene
Elastomers: neoprene, nitrile

Ordering information
Models include PTF threads. Filter/Regulator (F/R) has knob adjustment, automatic drain, metal bowl with level indicator, 40 µm element, relieving diaphragm, and 150 psig (10 bar) regulating spring, and gauge. Lubricator (L) is a Micro-Fog model with 1/4 turn manual drain and metal bowl with level indicator. Shut off valve is included.

Boxed Set Combination Units (ship within 24 hours)

<table>
<thead>
<tr>
<th>Boxed Set</th>
<th>Port size</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter/Regulator-Lubricator-Lockout valve-gauge-brackets</td>
<td>1/4&quot;</td>
<td>BL72-201A</td>
</tr>
<tr>
<td>Filter/Regulator-Lubricator-Lockout valve-gauge-brackets</td>
<td>3/8&quot;</td>
<td>BL73-301A</td>
</tr>
<tr>
<td>Filter/Regulator-Lubricator-Lockout valve-gauge-brackets</td>
<td>1/2&quot;</td>
<td>BL74-401A</td>
</tr>
</tbody>
</table>

Dimensions in inches (mm).

Other combinations are available. Please consult Norgren for more information.
Excelon® Modular System
F72G, F73G, F74G General Purpose Filters

Excelon® design allows in-line or modular installation with other Excelon® products
Quick release bayonet bowl
Highly visible prismatic liquid level indicator lens on metal bowls

Technical data
Fluid: Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum pressure:
- Transparent bowl: 150 psig (10 bar)
- Metal bowl: 250 psig (17 bar)
- F72G w/metal bowl and automatic drain: 150 psig (10 bar)

Operating temperature*:
- Transparent bowl: -30° to 125°F (-34° to 50°C)
- Metal bowl:
  - (72) -30° to 150°F (-34° to 66°C)
  - (73, 74) -30° to 175°F (-34° to 80°C)
  * Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials
F72G
- Body: zinc
- Transparent bowl: polycarbonate
- Metal bowl: zinc
- Metal bowl liquid level indicator lens: transparent nylon
- Element: sintered polypropylene
- Elastomers: neoprene and nitrile

F73G & F74G:
- Body: aluminum
- Transparent bowl: polycarbonate
- Transparent with guard: polycarbonate, aluminum guard
- Metal bowl: aluminum
- Metal bowl liquid level indicator lens: transparent nylon
- Element: sintered polypropylene
- Elastomers: Neoprene and nitrile

Ordering information
Models listed include PTF threads, automatic drain, metal bowl with liquid level indicator, and a 40 µm element.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Flow† scfm (dm³/s)</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>F72G 2AN  A3</td>
<td>55 (26)</td>
<td>1.13 (0.52)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>F73G 3AN A03</td>
<td>65 (31)</td>
<td>1.1 (0.50)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>F74G 4AN A03</td>
<td>140 (66)</td>
<td>1.79 (0.81)</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>F74G 6AN A03</td>
<td>140 (66)</td>
<td>1.75 (0.79)</td>
</tr>
</tbody>
</table>
† Typical flow with a 40µm element at 90 psig (6.3 bar) inlet pressure and 5 psig (0.35 bar) pressure drop.

Options selector
F7˙ G ˙˙˙ ˙˙˙
Element Substitute
5 µm 1
40 µm 3

Bowl Substitute
Metal w/ liquid level indicator (72*, 73, 74) D
Long metal w/ liquid level indicator (72)* E
Long transparent (72)* L
Transparent with guard (73, 74) P
Transparent bowl (72*, 73) T

Drain Substitute
1/4 turn manual Q
Auto drain* A

Port size Substitute
1/4 (72, 73) 2
3/8 (72, 73, 74) 3
1/2 (73, 74) 4
3/4 (74) 6

Series Substitute
72 2
73 3
74 4

Threads Substitute
PTF A
ISO G parallel G

Service life indicator Substitute
Mechanical indicator D
Electrical indicator E
Without N

* 72 Series auto drain is available only with long bowl option.

ISO Symbols

Auto Drain Manual Drain

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Excelon® Modular System
F72G, F73G, F74G General Purpose Filters
Dimensions in inches

### F72G FLOW CHARACTERISTICS

<table>
<thead>
<tr>
<th>Series</th>
<th>Drain type</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>Auto</td>
<td>5.51</td>
<td>7.52</td>
<td>0.75</td>
<td>2.09</td>
<td>1.97</td>
<td>1.89</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Manual</td>
<td>5.83</td>
<td>7.83</td>
<td>0.75</td>
<td>2.09</td>
<td>1.97</td>
<td>1.89</td>
<td></td>
</tr>
<tr>
<td>73</td>
<td>Auto</td>
<td>6.15</td>
<td>8.50</td>
<td>0.98</td>
<td>2.36</td>
<td>2.48</td>
<td>2.24</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Manual</td>
<td>6.95</td>
<td>9.69</td>
<td>0.98</td>
<td>2.36</td>
<td>2.48</td>
<td>2.24</td>
<td></td>
</tr>
<tr>
<td>74</td>
<td>Auto</td>
<td>6.35</td>
<td>9.06</td>
<td>0.98</td>
<td>2.36</td>
<td>3.15</td>
<td>2.91</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Manual</td>
<td>6.95</td>
<td>9.69</td>
<td>0.98</td>
<td>2.36</td>
<td>3.15</td>
<td>2.91</td>
<td></td>
</tr>
</tbody>
</table>

**Auto drain**

* Optional service indicator
† Minimum clearance required to remove bowl

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### F73G FLOW CHARACTERISTICS

<table>
<thead>
<tr>
<th>Series</th>
<th>Drain type</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>Auto</td>
<td>5.80</td>
<td>7.15</td>
<td>0.98</td>
<td>2.36</td>
<td>2.68</td>
<td>2.44</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Manual</td>
<td>6.15</td>
<td>8.50</td>
<td>0.98</td>
<td>2.36</td>
<td>2.68</td>
<td>2.44</td>
<td></td>
</tr>
<tr>
<td>73</td>
<td>Auto</td>
<td>6.35</td>
<td>9.06</td>
<td>0.98</td>
<td>2.36</td>
<td>3.15</td>
<td>2.91</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Manual</td>
<td>6.95</td>
<td>9.69</td>
<td>0.98</td>
<td>2.36</td>
<td>3.15</td>
<td>2.91</td>
<td></td>
</tr>
</tbody>
</table>

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### F74G FLOW CHARACTERISTICS

<table>
<thead>
<tr>
<th>Series</th>
<th>Drain type</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>Auto</td>
<td>6.15</td>
<td>8.50</td>
<td>0.98</td>
<td>2.36</td>
<td>2.68</td>
<td>2.44</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Manual</td>
<td>6.95</td>
<td>9.69</td>
<td>0.98</td>
<td>2.36</td>
<td>2.68</td>
<td>2.44</td>
<td></td>
</tr>
<tr>
<td>73</td>
<td>Auto</td>
<td>6.85</td>
<td>9.20</td>
<td>0.98</td>
<td>2.36</td>
<td>3.15</td>
<td>2.91</td>
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<tr>
<td></td>
<td>Manual</td>
<td>7.45</td>
<td>10.00</td>
<td>0.98</td>
<td>2.36</td>
<td>3.15</td>
<td>2.91</td>
<td></td>
</tr>
<tr>
<td>74</td>
<td>Auto</td>
<td>7.35</td>
<td>9.85</td>
<td>0.98</td>
<td>2.36</td>
<td>3.15</td>
<td>2.91</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Manual</td>
<td>8.05</td>
<td>11.50</td>
<td>0.98</td>
<td>2.36</td>
<td>3.15</td>
<td>2.91</td>
<td></td>
</tr>
</tbody>
</table>

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**Norgren.com/usa – 303.794.2611 – help@amer.norgren.com**
Excelon® Pro F92G
General Purpose Filter

Easy to order
Configuration flexibility
Excellent value
No tools required for assembly
RoHs compliant

Technical data
Fluid: Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.
Maximum pressure
Manual drain: 175 psig (12 bar)
Automatic drain: 150 psig (10 bar)
Operating temperature*
-4° to 125°F (-20° to 52°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials
Body: PBT
Transparent bowl: Polycarbonate
Element: Sintered polypropylene
Elastomers:
   Bowl O-ring - Neoprene
   All others - nitrile
Automatic drain operating conditions (float operated):
Bowl pressure required to close drain: > than 5 psig (0.35 bar)
Bowl pressure required to open drain: < 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

Order Information
Model listed below includes 5µm element, and manual drain.

<table>
<thead>
<tr>
<th>Port size</th>
<th>Part Number</th>
<th>Drain Type</th>
<th>Flow*</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; PTF</td>
<td>F92G2AN011</td>
<td>Manual</td>
<td>40</td>
<td>0.40</td>
</tr>
</tbody>
</table>

*Typical flow at 90 psig (6.3 bar) inlet pressure, and 5 psig (0.35 bar) pressure drop.

* Does not include mounting bracket.
Excelon® Pro Modular System
F92G, General Purpose Filters

Accessories and Kits

<table>
<thead>
<tr>
<th>Threaded connector w/mounting bracket*</th>
<th>Push-in-fitting connector w/mounting bracket*</th>
<th>Threaded connector w/o mounting brackets</th>
<th>Porting block</th>
<th>Quicconnect (quantity of 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection</td>
<td>P/N</td>
<td>Connection</td>
<td>P/N</td>
<td>P/N</td>
</tr>
<tr>
<td>1/8&quot; PTF</td>
<td>9212KIT-1A</td>
<td>6mm PIF</td>
<td>9213KIT-6D</td>
<td>1/4&quot; PTF</td>
</tr>
<tr>
<td>1/4&quot; PTF</td>
<td>9212KIT-2A</td>
<td>8mm PIF (5/16&quot;)</td>
<td>9213KIT-8D</td>
<td>1/4&quot; ISO Rc</td>
</tr>
<tr>
<td>3/8&quot; PTF</td>
<td>9212KIT-3A</td>
<td>10mm PIF</td>
<td>9213KIT-4D</td>
<td>1/4&quot; ISO G</td>
</tr>
<tr>
<td>1/8&quot; ISO Rc</td>
<td>9212KIT-1B</td>
<td>12mm PIF</td>
<td>9213KIT-8D</td>
<td>1/4&quot; PIF</td>
</tr>
<tr>
<td>1/4&quot; ISO Rc</td>
<td>9212KIT-2B</td>
<td>1/4&quot; PIF</td>
<td>9213KIT-4E</td>
<td>1/2&quot; PIF</td>
</tr>
<tr>
<td>3/8&quot; ISO G</td>
<td>9212KIT-3B</td>
<td>3/8&quot; PIF</td>
<td>9213KIT-6E</td>
<td></td>
</tr>
<tr>
<td>1/8&quot; ISO G</td>
<td>9212KIT-1G</td>
<td>1/2&quot; PIF</td>
<td>9213KIT-8E</td>
<td></td>
</tr>
<tr>
<td>1/4&quot; ISO G</td>
<td>9212KIT-2G</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/8&quot; ISO G</td>
<td>9212KIT-3G</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Use 1/4" (6 mm) screws and appropriate washers when attaching brackets to a surface.

Service kit
P/N F92G-KIT
Includes: bowl O-ring, filter element, louver

Auto Drain Assembly kit
P/N 4000-50

Locking plate kits**

P/N 9236-88/X10
(qty 10)
(fits filter, lubricator, lockout valves, and back of all units)

P/N 9236-89/X10
(qty 10)
(fits regulator, filter/regulator, porting block)

** Locking plates MUST be in place before pressurizing any Excelon Pro unit.

Porting block diagram:

* Connector Dimensions

1/8" and 1/4" threaded connectors shown. See below for port-to-port dimensions for additional connectors.

<table>
<thead>
<tr>
<th>PIF Connector</th>
<th>Port-to-port</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;, 6mm, 8mm (5/16&quot;)</td>
<td>2.37&quot; (60.2)</td>
</tr>
<tr>
<td>3/8&quot;, 1/2&quot;, 10mm, 12mm</td>
<td>2.46&quot; (62.9)</td>
</tr>
<tr>
<td>Threaded connector 1/8&quot;, 1/4&quot;</td>
<td>1.79&quot; (45.5)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>2.99&quot; (76.1)</td>
</tr>
</tbody>
</table>

† Distance required to remove bowl.
Excelon® Modular System
F72C, F73C, F74C, F74H Oil Removal (Coalescing) Filters

Excelon® design allows in-line or modular installation
High efficiency oil and particle removal
Quick release bayonet bowl
Standard visual service life indicator turns from green to red when the filter element needs to be replaced

Technical data
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum pressure:
Transparent bowl: 150 psig (10 bar)
Metal bowl: 250 psig (17 bar)
(72) metal bowl w/autodrain: 116 psig (8 bar)

Operating temperature*:
Transparent bowl:
-30° to 125°F (-34° to 50°C)
Metal bowl:
-30° to 150°F (-34° to 65°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Oil removal: 0.01 µm at 70°F (21°C)
Remaining oil content: 0.01 mg/m³ at 70°F (21°C)

Materials
F72C
Body: zinc
Bowl transparent: polycarbonate
Metal: zinc
Metal bowl liquid level indicator lens:
Transparent nylon
Internals: acetal
Spring: stainless steel
Elastomers: nitrile

F73C and F74C
Body: aluminum
Transparent bowl: polycarbonate
Transparent with guard: polycarbonate, Guard: aluminum
Metal bowl: aluminum
Metal bowl liquid level indicator lens:
Transparent nylon
Element: synthetic fiber and polyurethane foam
Elastomers: neoprene and nitrile

F74H
Body: aluminum
Transparent bowl: polycarbonate

Ordering Information
Models listed include PTF threads, service indicator, automatic drain, and a metal bowl with liquid level indicator.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Number</th>
<th>Maximum Flow*</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>F72C2ADAE0</td>
<td>9.5 (4.5)</td>
<td>1.2 (0.54)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>F73C3ADAD0</td>
<td>21.2 (10.0)</td>
<td>1.2 (0.54)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>F74C4ADDAD0</td>
<td>33.9 (16.0)</td>
<td>1.84 (0.83)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>F74H4ADDAD0</td>
<td>59.3 (28.0)</td>
<td>2.45 (1.11)</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>F74H4ADDAD0</td>
<td>59.3 (28.0)</td>
<td>2.40 (1.10)</td>
</tr>
</tbody>
</table>

* Maximum flow with 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance.

Options selector

**NOTE:** Coalescing filters should be used in conjunction with a 5µm general purpose filter upstream to maximize filter element life and optimize performance.

Excelon® Modular System
F72C, F73C, F74C, F74H Oil Removal (Coalescing) Filters

Excelon® design allows in-line or modular installation
High efficiency oil and particle removal
Quick release bayonet bowl
Standard visual service life indicator turns from green to red when the filter element needs to be replaced

Technical data
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum pressure:
Transparent bowl: 150 psig (10 bar)
Metal bowl: 250 psig (17 bar)
(72) metal bowl w/autodrain: 116 psig (8 bar)

Operating temperature*:
Transparent bowl:
-30° to 125°F (-34° to 50°C)
Metal bowl:
-30° to 150°F (-34° to 65°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Oil removal: 0.01 µm at 70°F (21°C)
Remaining oil content: 0.01 mg/m³ at 70°F (21°C)

Materials
F72C
Body: zinc
Bowl transparent: polycarbonate
Metal: zinc
Metal bowl liquid level indicator lens:
Transparent nylon
Internals: acetal
Spring: stainless steel
Elastomers: nitrile

F73C and F74C
Body: aluminum
Transparent bowl: polycarbonate
Transparent with guard: polycarbonate, Guard: aluminum
Metal bowl: aluminum
Metal bowl liquid level indicator lens:
Transparent nylon
Element: synthetic fiber and polyurethane foam
Elastomers: neoprene and nitrile

F74H
Body: aluminum
Transparent bowl: polycarbonate

Ordering Information
Models listed include PTF threads, service indicator, automatic drain, and a metal bowl with liquid level indicator.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Number</th>
<th>Maximum Flow*</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>F72C2ADAE0</td>
<td>9.5 (4.5)</td>
<td>1.2 (0.54)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>F73C3ADAD0</td>
<td>21.2 (10.0)</td>
<td>1.2 (0.54)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>F74C4ADDAD0</td>
<td>33.9 (16.0)</td>
<td>1.84 (0.83)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>F74H4ADDAD0</td>
<td>59.3 (28.0)</td>
<td>2.45 (1.11)</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>F74H4ADDAD0</td>
<td>59.3 (28.0)</td>
<td>2.40 (1.10)</td>
</tr>
</tbody>
</table>

* Maximum flow with 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance.

Options selector

**NOTE:** Coalescing filters should be used in conjunction with a 5µm general purpose filter upstream to maximize filter element life and optimize performance.

Excelon® Modular System
F72C, F73C, F74C, F74H Oil Removal (Coalescing) Filters

Excelon® design allows in-line or modular installation
High efficiency oil and particle removal
Quick release bayonet bowl
Standard visual service life indicator turns from green to red when the filter element needs to be replaced

Technical data
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum pressure:
Transparent bowl: 150 psig (10 bar)
Metal bowl: 250 psig (17 bar)
(72) metal bowl w/autodrain: 116 psig (8 bar)

Operating temperature*:
Transparent bowl:
-30° to 125°F (-34° to 50°C)
Metal bowl:
-30° to 150°F (-34° to 65°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Oil removal: 0.01 µm at 70°F (21°C)
Remaining oil content: 0.01 mg/m³ at 70°F (21°C)

Materials
F72C
Body: zinc
Bowl transparent: polycarbonate
Metal: zinc
Metal bowl liquid level indicator lens:
Transparent nylon
Internals: acetal
Spring: stainless steel
Elastomers: nitrile

F73C and F74C
Body: aluminum
Transparent bowl: polycarbonate
Transparent with guard: polycarbonate, Guard: aluminum
Metal bowl: aluminum
Metal bowl liquid level indicator lens:
Transparent nylon
Element: synthetic fiber and polyurethane foam
Elastomers: neoprene and nitrile

F74H
Body: aluminum
Transparent bowl: polycarbonate

Ordering Information
Models listed include PTF threads, service indicator, automatic drain, and a metal bowl with liquid level indicator.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Number</th>
<th>Maximum Flow*</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>F72C2ADAE0</td>
<td>9.5 (4.5)</td>
<td>1.2 (0.54)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>F73C3ADAD0</td>
<td>21.2 (10.0)</td>
<td>1.2 (0.54)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>F74C4ADDAD0</td>
<td>33.9 (16.0)</td>
<td>1.84 (0.83)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>F74H4ADDAD0</td>
<td>59.3 (28.0)</td>
<td>2.45 (1.11)</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>F74H4ADDAD0</td>
<td>59.3 (28.0)</td>
<td>2.40 (1.10)</td>
</tr>
</tbody>
</table>

* Maximum flow with 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance.

Options selector

**NOTE:** Coalescing filters should be used in conjunction with a 5µm general purpose filter upstream to maximize filter element life and optimize performance.
Excelon® Modular System

F72C, F73C, F74C, F74H Oil Removal (Coalescing) Filters

Dimensions in inches.

<table>
<thead>
<tr>
<th>Series</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>2.36</td>
<td>1.65</td>
<td>1.54</td>
<td>0.73</td>
<td>0.16</td>
<td>1.50</td>
<td>0.24</td>
<td>2.01</td>
</tr>
<tr>
<td>73</td>
<td>2.64</td>
<td>2.36</td>
<td>1.89</td>
<td>0.75</td>
<td>0.28</td>
<td>1.50</td>
<td>0.24</td>
<td>2.40</td>
</tr>
<tr>
<td>74</td>
<td>3.11</td>
<td>2.72</td>
<td>1.97</td>
<td>0.79</td>
<td>0.20</td>
<td>2.01</td>
<td>0.24</td>
<td>2.40</td>
</tr>
</tbody>
</table>

*Bracket kit does not include wall mounting screws.
†Quikclamp® is patented (US patent 5372392) and foreign patents.

**Standard service indicator

Minimum clearance required to remove bowl

Mounting bracket

**Air Prep 2-58 4th_YRBK03_*AirPrep  2/1/11  9:06 AM  Page 9**
Excelon® Pro F92C
Oil Removal (Coalescing) Filter

Easy to order
Configuration flexibility
Excellent value
No tools required for assembly
RoHs compliant

Technical data

Fluid: Compressed air, neutral gases

Maximum pressure
Automatic drain: 116 psig (8 bar)

Operating temperature*
-4° to 125°F (-20° to 52°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials
Body: PBT
Transparent bowl: Polycarbonate
Element: Synthetic fiber and polyurethane foam
Elastomers: Bowl O-ring, and service life indicator
O-ring - Neoprene. All others - nitrile

Service Indicator
Body: Polycarbonate
Internal parts: Acetal
Spring: Music wire ASTM 228
Elastomer: Neoprene

Automatic drain operating conditions (float operated):
Bowl pressure required to close drain: > than 5 psig (0.35 bar)
Bowl pressure required to open drain: < than 3 psig (0.2 bar)
Minimum air flow required to close drain: 0.2 scfm (0.1 dm^3/s)
Manual operation: Depress pin inside drain outlet to drain bowl

Order Information
Model listed below includes 0.01µm element, automatic drain, service life indicator

<table>
<thead>
<tr>
<th>Port size</th>
<th>Part Number</th>
<th>Flow* scfm (dm^3/s)</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; PTF</td>
<td>F92C2DAT0</td>
<td>9.7 (4.6)</td>
<td>0.44 (0.20)</td>
</tr>
</tbody>
</table>

* Maximum flow with 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance (saturated element).

NOTE: Coalescing filters should be used in conjunction with a 5µm general purpose filter upstream to maximize filter element life and optimize performance.
Excelon® Pro Modular System
F92C, Coalescing Filters

Accessories and Kits

<table>
<thead>
<tr>
<th>Threaded connector w/ mounting bracket*</th>
<th>Push-in-Fitting connector w/ mounting bracket*</th>
<th>Threaded connector w/o mounting brackets</th>
<th>Porting block</th>
<th>Quikconnect (quantity of 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection P/N</td>
<td>Connection P/N</td>
<td>Connection P/N</td>
<td>Connection P/N</td>
<td>P/N</td>
</tr>
<tr>
<td>1/8&quot; PTF</td>
<td>9212KIT-1A</td>
<td>6mm PIF</td>
<td>9213KIT-6D</td>
<td>1/4&quot; PTF</td>
</tr>
<tr>
<td>1/4&quot; PTF</td>
<td>9212KIT-2A</td>
<td>8mm (5/16&quot;) PIF</td>
<td>9213KIT-8D</td>
<td>1/4&quot; ISO Rc</td>
</tr>
<tr>
<td>3/8&quot; PTF</td>
<td>9212KIT-3A</td>
<td>10mm PIF</td>
<td>9213KIT-10D</td>
<td>1/4&quot; ISO G</td>
</tr>
<tr>
<td>1/8&quot; ISO Rc</td>
<td>9212KIT-1B</td>
<td>12mm PIF</td>
<td>9213KIT-12D</td>
<td>1/4&quot; PIF</td>
</tr>
<tr>
<td>1/4&quot; ISO Rc</td>
<td>9212KIT-2B</td>
<td>1/4&quot; PIF</td>
<td>9213KIT-4E</td>
<td></td>
</tr>
<tr>
<td>3/8&quot; ISO Rc</td>
<td>9212KIT-3B</td>
<td>3/8&quot; PIF</td>
<td>9213KIT-6E</td>
<td></td>
</tr>
<tr>
<td>1/8&quot; ISO G</td>
<td>9212KIT-1G</td>
<td>1/2&quot; PIF</td>
<td>9213KIT-8E</td>
<td></td>
</tr>
<tr>
<td>1/4&quot; ISO G</td>
<td>9212KIT-2G</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/8&quot; ISO G</td>
<td>9212KIT-3G</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Use 1/4" (6 mm) screws and appropriate washers when attaching brackets to a surface.

**Porting block**

Auto drain assembly
4000-50

**Service kit**
P/N F92C-KIT
Includes: bowl O-ring, service indicator seal, filter element, screws

**Auto drain assembly**
4000-50

**Locking plate kits**
P/N 9236-88/X10
(qty 10) (fits filter, lubricator, lockout valves, and back of all units)
P/N9236-89/X10
(qty 10) (fits regulator, filter/regulator, porting block)

**Connector Dimensions**
1/8" and 1/4" threaded connectors shown. See below for port-to-port dimensions for additional connectors.

<table>
<thead>
<tr>
<th>PIF Connector</th>
<th>Port-to-port</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;, 6mm, 8mm (5/16&quot;)</td>
<td>3.37&quot; (85.6)</td>
</tr>
<tr>
<td>3/8&quot;, 1/2&quot;, 10mm, 12mm</td>
<td>2.48&quot; (63.0)</td>
</tr>
<tr>
<td>Threaded connector</td>
<td></td>
</tr>
<tr>
<td>1/8&quot;</td>
<td>1.79&quot; (45.5)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>2.99&quot; (76.1)</td>
</tr>
</tbody>
</table>

† Distance required to remove bowl.
Excelon® Modular System

F72V, and F74V Oil Vapor Removal (adsorbing) Filters

Element color band changes to blue indicating need for replacement.
Excelon® design allows in-line or modular installation
Adsorbing type activated carbon element removes oil vapors and most hydrocarbon odors
Quick release bayonet bowl
Modular installations with Excelon® 72, 73, and 74 series can be made to suit particular applications

Technical data
Fluid:
Compressed air, neutral gases
*NOTE: Contact Norgren for use with other media.

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)

Air quality:
Within ISO 8573-1, Class 1 (oil content) when installed downstream of an oil removal filter.

Maximum remaining oil content in outlet air:
0.003 ppm at 70°F (20°C)

Materials
F72V
Body: zinc
Transparent bowl: polycarbonate
Guard for transparent bowl: zinc
Metal bowl: zinc
Element: Activated carbon and polycarbonate
Elastomers: nitrile

F74V
Body: aluminum
Transparent Bowl: polycarbonate with steel bowl guard
Metal bowl: aluminum
Element: activated carbon and aluminum
Elastomers: neoprene and nitrile

Ordering Information
Models listed include PTF threads.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Flow* scfm (dm3/s)</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>F72V 2AN ELC</td>
<td>3.4 (1.6)</td>
<td>0.88 (0.40)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>F74V 4AN EMA</td>
<td>21 (10)</td>
<td>2.51 (1.14)</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>F74V 6AN EMA</td>
<td>21 (10)</td>
<td>2.46 (1.12)</td>
</tr>
</tbody>
</table>

* Maximum flow with 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance.

Options selector

Oil vapor removal filters must be protected upstream by an oil removal filter and general purpose filter.
Excelon® Modular System

F72V and F74V Oil Vapor Removal (adsorbing) Filters

Accessories

<table>
<thead>
<tr>
<th>Wall mounting bracket*</th>
<th>Quikmount pipe adapters (quantity of 1) (NPT)</th>
<th>Quikclamp®</th>
<th>Quikclamp® and wall bracket</th>
<th>Service kit seal and gasket</th>
<th>Replacement elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>F72V 424-50</td>
<td>4215-02 (1/4)</td>
<td>4214-51</td>
<td>4214-52</td>
<td>4380-500</td>
<td>4241-01</td>
</tr>
<tr>
<td></td>
<td>4215-03 (3/8)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F74V 4324-50</td>
<td>4315-02 (3/8)</td>
<td>4314-51</td>
<td>4314-52</td>
<td>4380-750</td>
<td>4341-01</td>
</tr>
<tr>
<td></td>
<td>4315-03 (1/2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4315-04 (3/4)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Bracket kit does not include wall mounting screws.

Typical Performance Characteristics

F72V FLOW CHARACTERISTICS

<table>
<thead>
<tr>
<th>PORT SIZE: 3/8&quot;</th>
<th>AIR FLOW dm³/s</th>
<th>PRESSURE DROP bar d</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>0.1</td>
<td>0.2</td>
</tr>
<tr>
<td>2</td>
<td>0.4</td>
<td>0.6</td>
</tr>
<tr>
<td>3</td>
<td>0.7</td>
<td>0.9</td>
</tr>
<tr>
<td>4</td>
<td>1.0</td>
<td>1.2</td>
</tr>
<tr>
<td>5</td>
<td>1.3</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Maximum flow to maintain stated oil removal performance

F74V FLOW CHARACTERISTICS

<table>
<thead>
<tr>
<th>PORT SIZE: 1/2&quot;</th>
<th>AIR FLOW dm³/s</th>
<th>PRESSURE DROP bar d</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>0.1</td>
<td>0.2</td>
</tr>
<tr>
<td>2</td>
<td>0.4</td>
<td>0.6</td>
</tr>
<tr>
<td>3</td>
<td>0.7</td>
<td>0.9</td>
</tr>
<tr>
<td>4</td>
<td>1.0</td>
<td>1.2</td>
</tr>
<tr>
<td>5</td>
<td>1.3</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Maximum flow to maintain stated oil removal performance

Mounting bracket

Long Bowl

<table>
<thead>
<tr>
<th>Series</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>2.36</td>
<td>1.65</td>
<td>1.54</td>
<td>0.73</td>
<td>0.16</td>
<td>1.50</td>
<td>0.24</td>
<td>2.01</td>
</tr>
<tr>
<td>74</td>
<td>3.11</td>
<td>2.72</td>
<td>1.97</td>
<td>0.79</td>
<td>0.20</td>
<td>2.01</td>
<td>0.24</td>
<td>2.40</td>
</tr>
</tbody>
</table>

All Dimensions in Inches (mm)

† Minimum clearance required to remove bowl.

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Excelon® modular system
B72G, B73G, B74G Filter/Regulators

Excelon® design allows in-line installation or modular installation with other Excelon® products
High efficiency water and particle removal
Quick release bayonet bowl
Push to lock adjusting knob with tamper resistant accessory
Optional patented quarter turn manual drain

Technical data
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum pressure:
Transparent bowl: 150 psig (10 bar)
Metal bowl: 250 psig (17 bar)
B72G metal bowl w/ auto drain: 150 psig (10 bar)

Operating temperature*:
Transparent bowl:
-30° to 125°F (-34° to 50°C)
Metal bowl:
(72) -30° to 150°F (-34° to 66°C)
(73, 74) -30° to 175°F (-34° to 80°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials
B72G
Body: zinc
Bonnet: acetal (Zinc on 250 psi model)
Valve: brass
Transparent bowl: polycarbonate
Metal bowl: zinc
Liquid level indicator lens (metal bowl): transparent nylon
Element: sintered polypropylene
Elastomers: neoprene & nitrile

B73G & B74G:
Body & bonnet: aluminum
Transparent bowl: polycarbonate
Guarded transparent bowl: polycarbonate with steel
Metal bowl: aluminum
Liquid level indicator lens (metal bowl): transparent nylon (Pyrex optional)
Element: sintered polypropylene
Elastomers: neoprene & nitrile

Ordering Information
Models listed include PTF threads, knob adjustment, automatic drain, metal bowl with liquid level indicator, 40 µm element, relieving diaphragm, 5 to 150 psig (0.3 to 10 bar) outlet pressure adjustment range* with gauge.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Flow† scfm (dm3/s)</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4”</td>
<td>B72G 2AK AE3 RMG</td>
<td>80 (38)</td>
<td>1.3 (0.59)</td>
</tr>
<tr>
<td>3/8”</td>
<td>B73G 3AK AD3 RMG</td>
<td>123 (58)</td>
<td>1.78 (0.82)</td>
</tr>
<tr>
<td>1/2”</td>
<td>B73G 4AK AD3 RMG</td>
<td>123 (58)</td>
<td>1.76 (0.82)</td>
</tr>
<tr>
<td>1/2”</td>
<td>B74G 4AK AD3 RMG</td>
<td>212 (100)</td>
<td>2.59 (1.17)</td>
</tr>
<tr>
<td>3/4”</td>
<td>B74G 6AK AD3 RMG</td>
<td>212 (100)</td>
<td>2.55 (1.16)</td>
</tr>
</tbody>
</table>

*Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.
† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.

Options selector

B72G
ISO G parallel
5 µm
40 µm

Gauge
Substitute
With
Without

Outlet pressure adjustment range* Substitute
5 to 60 psig (0.3 to 4 bar) F
5 to 150 psig (0.3 to 10 bar) M
10 to 250 psig (0.7 to 17 bar)** S

Diaphragm Substitute
Relieving
R

Element Substitute
5 µm
1
40 µm
3

Bowl Substitute
Metal w/ liquid level indicator (72*, 73, 74) D
Long metal w/ liquid level indicator (72*) E
Long transparent (72) L
Transparent with guard (73, 74) P
Transparent bowl (72*, 73) T

Drain Substitute
1/4 turn manual Q
Auto drain A

Series Substitute
72 2
73 3
74 4

Threads Substitute
PTF A

Adjustment Substitute
Knob K
T-bar T

Port size Substitute
1/4” (72 & 73) 2
3/8” (72, 73, 74) 3
1/2” (73 & 74) 4
3/4” (74) 6

*Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.
** 250 psig (17 bar) outlet pressure range units are available with t-handle adjustment only and standard metal bowl options.

ISO Symbols

Automatic and Semi Automatic Drain Relieving
Automatic and Semi Automatic Drain Non Relieving
Manual Drain Relieving
Manual Drain Non Relieving
### Excelon® modular system

#### B72G, B73G, B74G Filter/Regulators

**Dimensions in inches.**

#### Accessories

<table>
<thead>
<tr>
<th>Wall mounting bracket*</th>
<th>Neck mounting bracket</th>
<th>Gauge</th>
<th>Panel nut</th>
<th>Tamper resistant cover and seal wire</th>
<th>Pipe adapters (quantity of 1) (NPT)</th>
<th>Quikclamp®</th>
<th>Quikclamp® and Replacement bracket</th>
<th>Replacement elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>B72G 424-50</td>
<td>74316-50</td>
<td>18-013-212</td>
<td>4248-89</td>
<td>4255-51</td>
<td>4215-02 (1/4)</td>
<td>4214-51</td>
<td>4214-52</td>
<td>5925-03 (5µm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4215-03 (3/8)</td>
<td></td>
<td>4215-03</td>
<td>5925-02 (40µm)</td>
</tr>
<tr>
<td>B73G 442-50</td>
<td>4461-50</td>
<td>18-013-209</td>
<td>5191-88</td>
<td>4455-51</td>
<td>4315-01 (1/4)</td>
<td>4314-51</td>
<td>4314-52</td>
<td>4438-01 (5µm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4315-02 (3/8)</td>
<td></td>
<td>4315-03</td>
<td>4438-03 (40µm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4315-03 (1/2)</td>
<td></td>
<td>4315-03</td>
<td>4338-05 (40µm)</td>
</tr>
</tbody>
</table>

* Bracket kit does not include wall mounting screws.

#### Mounting bracket

<table>
<thead>
<tr>
<th>Series</th>
<th>Drain type</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>Panel Ø</th>
<th>Panel depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>Auto</td>
<td>5.35</td>
<td>7.35</td>
<td>1.02</td>
<td>2.87</td>
<td>1.97</td>
<td>1.89</td>
<td>1.38</td>
<td>1.57</td>
<td>0.16</td>
<td>1.02</td>
</tr>
<tr>
<td>73</td>
<td>Auto</td>
<td>6.60</td>
<td>8.83</td>
<td>1.22</td>
<td>3.78</td>
<td>2.68</td>
<td>2.44</td>
<td>2.20</td>
<td>1.89</td>
<td>0.70</td>
<td>0.70</td>
</tr>
<tr>
<td>74</td>
<td>Auto</td>
<td>6.95</td>
<td>9.06</td>
<td>1.22</td>
<td>5.00</td>
<td>3.15</td>
<td>2.91</td>
<td>2.20</td>
<td>2.05</td>
<td>0.70</td>
<td>0.70</td>
</tr>
</tbody>
</table>

*Optional gauge.

# Minimum clearance required to remove bowl.

#### Service Kits

<table>
<thead>
<tr>
<th>Item</th>
<th>Type</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>72G</td>
<td>Relieving</td>
<td>4383-500</td>
</tr>
<tr>
<td>73G</td>
<td>Relieving</td>
<td>4383-600</td>
</tr>
<tr>
<td>74G</td>
<td>Relieving</td>
<td>4383-700</td>
</tr>
</tbody>
</table>

#### Typical Performance Characteristics

**B72F**

- **Port Size:** 1/4" (6.4 mm)
- **Element:** 40 µm
- **Inlet Pressure:** 150 psig (10 bar g)
- **Range:** 5 to 150 psig (0.3 to 10 bar)

**B73F**

- **Port Size:** 3/8" (9.5 mm)
- **Element:** 40 µm
- **Inlet Pressure:** 100 psig (7 bar g)
- **Range:** 5 to 150 psig (0.3 to 10 bar)

**B74F**

- **Port Size:** 1/2" (12.7 mm)
- **Element:** 40 µm
- **Inlet Pressure:** 100 psig (7 bar g)
- **Range:** 5 to 150 psig (0.3 to 10 bar)

---

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ALE-15
Excelon® Pro B92G
General Purpose Filter/Regulator

Easy to order
Configuration flexibility
Excellent value
No tools required for assembly
Push-to-lock adjusting knob
w/tamper resistant accessory

Technical data
Fluid: Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure
- Manual drain: 175 psig (12 bar)
- Automatic drain: 150 psig (10 bar)

Operating temperature*
- -4° to 125°F (-20° to 52°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials
- Body: PBT
- Bonnet: PBT
- Valve elastomer: Geolast
- Diaphragm: Nitrile
- Transparent bowl: Polycarbonate
- Element: Sintered polypropylene
- Elastomers:
  - Bowl O-ring – Neoprene
  - All others – Nitrile

Automatic drain operating conditions (float operated):
- Bowl pressure required to close drain: > than 5 psig (0.35 bar)
- Bowl pressure required to open drain: < 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

Order Information
Model listed below includes 5µm element, relieving diaphragm, 145 psi outlet pressure adjustment range, manual drain, and bar/psi gauge.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Flow* (scfm/flows)</th>
<th>Weight* (lb/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B92G</td>
<td>35 (16)</td>
<td>0.62 (0.28)</td>
</tr>
</tbody>
</table>

* Maximum flow with 145 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) drop from set.

ISO Symbols

Automatic Drain Relieving
Manual Drain Relieving

B92 Flow Characteristics

PORT SIZE: 1/4" PTF ELEMENT: 5 µm INLET PRESSURE: 150 psig (10 bar g)
RANGE: 5 to 150 psig (0.3 to 10 bar)

OUTLET PRESSURE

AIR FLOW

* Does not include mounting bracket

<table>
<thead>
<tr>
<th>Substitute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NN</td>
<td>no connection</td>
</tr>
<tr>
<td>1A</td>
<td>1/8&quot; PTF</td>
</tr>
<tr>
<td>2A</td>
<td>1/4&quot; PTF</td>
</tr>
<tr>
<td>3A</td>
<td>3/8&quot; PTF</td>
</tr>
<tr>
<td>1B</td>
<td>1/8&quot; ISO Rc</td>
</tr>
<tr>
<td>2B</td>
<td>1/4&quot; ISO Rc</td>
</tr>
<tr>
<td>3B</td>
<td>3/8&quot; ISO Rc</td>
</tr>
<tr>
<td>1C</td>
<td>1/8&quot; ISO G</td>
</tr>
<tr>
<td>2C</td>
<td>1/4&quot; ISO G</td>
</tr>
<tr>
<td>3C</td>
<td>3/8&quot; ISO G</td>
</tr>
<tr>
<td>6D</td>
<td>6mm PIF</td>
</tr>
<tr>
<td>8D</td>
<td>8mm (5/16&quot;) PIF</td>
</tr>
<tr>
<td>AD</td>
<td>10mm PIF</td>
</tr>
<tr>
<td>BD</td>
<td>12mm PIF</td>
</tr>
<tr>
<td>4E</td>
<td>1/4&quot; PIF</td>
</tr>
<tr>
<td>6E</td>
<td>3/8&quot; PIF</td>
</tr>
<tr>
<td>8E</td>
<td>1/2&quot; PIF</td>
</tr>
<tr>
<td>2R</td>
<td>1/4&quot; PIF</td>
</tr>
<tr>
<td>2T</td>
<td>1/4&quot; ISO Rc</td>
</tr>
<tr>
<td>2V</td>
<td>1/4&quot; ISO G</td>
</tr>
</tbody>
</table>

Substitute Description:
- B92G: Manual drain
- K: Gauge bar/psi scale
- T: Automatic drain
- R: Gauge bar/Mpa scale

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# Excelon® Pro Modular System

## B92G, General Purpose Filter/Regulator

### Accessories and Kits

<table>
<thead>
<tr>
<th>Threaded connector w/mounting bracket*</th>
<th>Push-in-Fitting connector w/mounting bracket*</th>
<th>Threaded connector w/o mounting brackets</th>
<th>Porting block</th>
<th>Quikconnect (quantity of 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection</td>
<td>P/N</td>
<td>Connection</td>
<td>P/N</td>
<td>Connection</td>
</tr>
<tr>
<td>1/8” PTF</td>
<td>9212KIT-1A</td>
<td>6mm PIF</td>
<td>9213KIT-6D</td>
<td>1/4” PTF</td>
</tr>
<tr>
<td>1/4” PTF</td>
<td>9212KIT-2A</td>
<td>8mm (5/16”) PIF</td>
<td>9213KIT-8D</td>
<td>1/4” ISO Rc</td>
</tr>
<tr>
<td>3/8” PTF</td>
<td>9212KIT-3A</td>
<td>10mm PIF</td>
<td>9213KIT-AD</td>
<td>1/4” ISO G</td>
</tr>
<tr>
<td>1/8” ISO Rc</td>
<td>9212KIT-1B</td>
<td>12mm PIF</td>
<td>9213KIT-8D</td>
<td>1/4” ISO Rc</td>
</tr>
<tr>
<td>1/4” ISO Rc</td>
<td>9212KIT-2B</td>
<td>1/4” PIF</td>
<td>9213KIT-4E</td>
<td>3/8” ISO Rc</td>
</tr>
<tr>
<td>3/8” ISO Rc</td>
<td>9212KIT-3B</td>
<td>3/8” PIF</td>
<td>9213KIT-6E</td>
<td>1/8” ISO G</td>
</tr>
<tr>
<td>1/8” ISO G</td>
<td>9212KIT-1G</td>
<td>1/2” PIF</td>
<td>9213KIT-6E</td>
<td>3/8” ISO G</td>
</tr>
<tr>
<td>3/8” ISO G</td>
<td>9212KIT-3G</td>
<td></td>
<td></td>
<td>1/4” ISO G</td>
</tr>
</tbody>
</table>

* Use 1/4” (6 mm) screws and appropriate washers when attaching brackets to a surface.

### Service kit

- **P/N B92G-KITR**
  - Includes: Diaphragm assembly, valve, valve O-ring, slip ring, bowl O-ring, element, screws

### Auto Drain Assembly kit

- **P/N 4000-50**

### Locking plate kits**

- **P/N 9236-89/X10**
  - (qty 10)
  - (fits filter, lubricator, lockout valves, and back of all units)

- **P/N 9236-89/X10**
  - (qty 10)
  - (fits regulator, filter/regulator, porting block)

** Locking plates **MUST** be in place before pressurizing any Excelon Pro unit.

### Wall mount dimensions

- **P/N 74316-02**

### * Connector Dimensions

1/8” and 1/4” threaded connectors shown. See below for port-to-port dimensions for additional connectors.

<table>
<thead>
<tr>
<th>PIF Connector</th>
<th>Port-to-port</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8”, 6mm, 8mm (5/16”)</td>
<td>2.37 (60.5)</td>
</tr>
<tr>
<td>3/8”, 1/2”, 10mm, 12mm</td>
<td>2.46 (62.5)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Threaded connector</th>
<th>Port-to-port</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8”</td>
<td>1.79 (45.5)</td>
</tr>
<tr>
<td>3/8”</td>
<td>2.29 (58.0)</td>
</tr>
</tbody>
</table>

** Distance required to remove bowl.
Excelon® modular system
R72G, R73G, R74G Pressure regulators

Excelon® design allows in-line or modular installation
Full flow gauge ports
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

Technical data

Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum pressure:
300 psig (20 bar)

Operating temperature*:
-30° to 175°F (-34° to 80°C)
*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials
R72G
Body: zinc
Bonnet: acetal (Zinc on 250 psi model)
Elastomers: nitrile
Bottom plug: acetal
R73G, R74G
Body: aluminum
Bonnet: aluminum or zinc
Elastomers: nitrile
Bottom plug: acetal

Ordering Information
Models listed include uni-directional flow, PTF threads, knob adjustment, relieving diaphragm, 5 to 150 psig (0.3 to 10 bar) outlet pressure adjustment range*, with gauge.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Flow† scfm (dm3/s)</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>R72G 2AK RMG</td>
<td>70 (33)</td>
<td>0.79 (0.36)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>R73G 2AK RMG</td>
<td>91 (43)</td>
<td>1.36 (0.6)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>R73G 3AK RMG</td>
<td>144 (68)</td>
<td>1.36 (0.6)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>R74G 3AK RMG</td>
<td>208 (98)</td>
<td>1.80 (0.82)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>R74G 4AK RMG</td>
<td>220 (105)</td>
<td>1.77 (0.80)</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>R74G 6AK RMG</td>
<td>220 (105)</td>
<td>1.73 (0.78)</td>
</tr>
</tbody>
</table>

† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.

Options selector

*Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.
**Units with 250 psig outlet pressure range are available only with the T-bar adjustment, substitute T at the 7th position and S at the 9th position.

ISO Symbols

R72G Relieving

A R7*G G **

With
Without

Outlet press adj range* Substitute
5 to 30 psig (72) C
5 to 60 psig F
5 to 150 psig M
10 to 250 psig** S

Adjustment Substitute
Knob K
T-bar T
**Excelon® modular system**

**R72G, R73G, R74G Pressure regulators**

**Accessories**

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Wall mounting bracket*</th>
<th>Neck mounting bracket</th>
<th>Gauge 0…160 psig</th>
<th>Panel nut 18-013-212</th>
<th>Tamper resistant cover and seal wire 4248-89</th>
<th>Pipe adapters (quantity of 1) (NPT) 4255-51</th>
<th>Quikclamp® 4215-02 (1/4)</th>
<th>Quikclamp® and wall bracket 4214-51</th>
<th>Service kit 4214-52</th>
<th>4381-500</th>
</tr>
</thead>
<tbody>
<tr>
<td>R73G</td>
<td>4424-50</td>
<td>4461-50</td>
<td>18-013-209</td>
<td>5191-88</td>
<td>4455-51</td>
<td>4315-01 (1/4)</td>
<td>4314-51</td>
<td>4314-52</td>
<td>4381-600</td>
<td></td>
</tr>
</tbody>
</table>

* Bracket kit does not include wall mounting screws.

**Neck mounting brackets**

**R72**

**R73**

**R74**

**Dimensions in inches.**

**R72** FLOW CHARACTERISTICS

<table>
<thead>
<tr>
<th>Port CL</th>
<th>0</th>
<th>10</th>
<th>20</th>
<th>30</th>
<th>40</th>
<th>50</th>
<th>dm³/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>INLET PRESSURE: 150 psig (10 bar g) RANGE: 0 to 150 psig (0.3 to 10 bar)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**R73** FLOW CHARACTERISTICS

<table>
<thead>
<tr>
<th>Port CL</th>
<th>0</th>
<th>10</th>
<th>20</th>
<th>30</th>
<th>40</th>
<th>50</th>
<th>60</th>
<th>80</th>
<th>100</th>
<th>120</th>
<th>dm³/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>INLET PRESSURE: 150 psig (10 bar g) RANGE: 0 to 150 psig (0.3 to 10 bar)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**R74** FLOW CHARACTERISTICS

<table>
<thead>
<tr>
<th>Port CL</th>
<th>0</th>
<th>10</th>
<th>20</th>
<th>30</th>
<th>40</th>
<th>50</th>
<th>60</th>
<th>80</th>
<th>100</th>
<th>120</th>
<th>dm³/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>INLET PRESSURE: 150 psig (10 bar g) RANGE: 0 to 150 psig (0.3 to 10 bar)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Optional gauge**

Norgren.com/usa – 303.794.2611 – help@amer.norgren.com
Excelon® Pro R92G
General Purpose Regulator

Easy to order
Configuration flexibility
Excellent value
No tools required for assembly
Push-to-lock adjusting knob
w/tamper resistant accessory

Technical data
Fluid: Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum pressure
175 psig (12 bar)

Operating temperature*
-4° to 140°F (-20° to 60°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials
Body: PBT
Elastomers:
Valve elastomer - Geolast
Diaphragm and all other elastomers - nitrile

ISO Symbol
Relieving

Order Information
Model listed below includes relieving diaphragm, 145 psi outlet pressure adjustment range, and bar/psi gauge.

<table>
<thead>
<tr>
<th>Port size</th>
<th>Part Number</th>
<th>Flow* scfm (dm3/s)</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; PTF</td>
<td>R92G2AKRMG</td>
<td>46 (22)</td>
<td>0.55 (0.25)</td>
</tr>
</tbody>
</table>

* Maximum flow with 145 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure, and a 15 psig (1 bar) drop from set.

Substitute Description
NN no connection
1A 1/8” PTF
2A 1/4” PTF
3A 3/8” PTF
1B 1/8” ISO Rc
2B 1/4” ISO Rc
3B 3/8” ISO Rc
1G 1/8” ISO G
2G 1/4” ISO G
3G 3/8” ISO G
6D 6mm PIF
8D 8mm (5/16”) PIF
AD 10mm PIF
BD 12mm PIF
4E 1/4” PIF
6E 3/8” PIF
8E 1/2” PIF
2R* 1/4” PTF
2T* 1/4” ISO Rc
2V* 1/4” ISO G

G Gauge bar/psi scale
A Gauge bar/Mpa scale

* Does not include mounting bracket
Accessories and Kits

<table>
<thead>
<tr>
<th>Threaded connector w/mounting bracket*</th>
<th>Push-In-Fitting connector w/mounting bracket*</th>
<th>Threaded connector w/o mounting brackets</th>
<th>Porting block</th>
<th>Quikconnect (quantity of 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection</td>
<td>Connection P/N</td>
<td>Connection P/N</td>
<td>Connection P/N</td>
<td>Connection P/N</td>
</tr>
<tr>
<td>1/8&quot; PTF</td>
<td>9212KIT-1A</td>
<td>6mm PIF</td>
<td>1/4&quot; PTF</td>
<td>9211KIT-2R</td>
</tr>
<tr>
<td>1/4&quot; PTF</td>
<td>9212KIT-2A</td>
<td>8mm (5/16&quot;) PIF</td>
<td>1/4&quot; ISO Rc</td>
<td>9211KIT-2T</td>
</tr>
<tr>
<td>3/8&quot; PTF</td>
<td>9212KIT-3A</td>
<td>10mm PIF</td>
<td>1/4&quot; ISO G</td>
<td>9216-50</td>
</tr>
<tr>
<td>1/8&quot; ISO Rc</td>
<td>9212KIT-1B</td>
<td>12mm PIF</td>
<td>1/4&quot; ISO G</td>
<td>9216-51</td>
</tr>
<tr>
<td>1/4&quot; ISO Rc</td>
<td>9212KIT-2B</td>
<td>1/4&quot; PIF</td>
<td>1/4&quot; ISO Rc</td>
<td>9216-52</td>
</tr>
<tr>
<td>3/8&quot; ISO Rc</td>
<td>9212KIT-3B</td>
<td>3/8&quot; PIF</td>
<td></td>
<td>Tamper resistant</td>
</tr>
<tr>
<td>1/8&quot; ISO G</td>
<td>9212KIT-1G</td>
<td>1/2&quot; PIF</td>
<td></td>
<td>cover and seal wire</td>
</tr>
<tr>
<td>1/4&quot; ISO G</td>
<td>9212KIT-2G</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/8&quot; ISO G</td>
<td>9212KIT-3G</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Use 1/4" (6 mm) screws and appropriate washers when attaching brackets to a surface.

<table>
<thead>
<tr>
<th>Service kit</th>
<th>Locking plate kits**</th>
</tr>
</thead>
<tbody>
<tr>
<td>P/N R92G-KITR</td>
<td>P/N 9236-88/X10</td>
</tr>
<tr>
<td>Includes: Diaphragm assembly, valve, valve O-ring, slip ring, bottom plug O-ring</td>
<td>(qty 10) (fits filter, lubricator, lockout valves, and back of all units)</td>
</tr>
</tbody>
</table>

** Locking plates MUST be in place before pressurizing any Excelon Pro unit.

---

**Connector Dimensions**

1/8" and 1/4" threaded connectors shown. See below for port-to-port dimensions for additional connectors.

<table>
<thead>
<tr>
<th>PIF Connector</th>
<th>Port-to-port</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;, 6mm, 8mm (5/16&quot;)</td>
<td>2.37&quot; (60.2)</td>
</tr>
<tr>
<td>3/8&quot;, 1/2&quot;, 10mm, 12mm</td>
<td>2.48&quot; (62.9)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Threaded connector</th>
<th>Port-to-port</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;, 1/4&quot;</td>
<td>1.79&quot; (45.5)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>2.99&quot; (76.1)</td>
</tr>
</tbody>
</table>
**Excelon® modular system**

L72M/C, L73M/C, L74M/C Lubricators

Excelon® design allows in-line or modular installation
Quick release bayonet bowl.
Flow sensor provides a nearly constant oil/air ratio over a wide range of flows
Highly visible, prismatic liquid level indicator lens on metal bowls
All round (360°) visibility of sight-feed dome for ease of drip rate setting
Micro-fog and oil-fog

**Technical data**

**Fluid:**
Compressed air, neutral gases
*NOTE: Contact Norgren for use with other media.*

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

**Operating temperature:**
(72) -30° to 150°F (-34° to 66°C)
(73, 74) -30° to 175°F (-34° to 80°C)
*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).*

**Materials**

L72
- Body: zinc
- Elastomers: nitrile
- Transparent bowl: polycarbonate
- Metal bowl: zinc
- Liquid level indicator lens (metal bowl): transparent nylon
- Sight-feed dome: transparent nylon
- Elastomers: neoprene, nitrile & Geolast

L73, L74
- Body: aluminum
- Transparent bowl: polycarbonate
- Guarded transparent bowl: polycarbonate with aluminum guard
- Metal bowl: aluminum
- Liquid level indicator lens (metal bowl): transparent nylon
- Sight-feed dome: transparent nylon
- Elastomers: neoprene & nitrile

**Micro-fog:**
Fine mist lubrication with oil particle size typically less than 2µm. For use in lengthy air lines or multiple valve and cylinder circuits.

**Oil-fog:**
Suitable for heavy lubrication systems such as single cylinder air motors and air tools.

**Ordering Information**

Models listed include PTF threads, manual drain, and metal bowl with plastic liquid level indicator.

<table>
<thead>
<tr>
<th>Type</th>
<th>Port Size</th>
<th>Model*</th>
<th>Flow** scfm (dm3/s)</th>
<th>Nominal bowl capacity (oz)</th>
<th>Weight lb (kg)†</th>
</tr>
</thead>
<tbody>
<tr>
<td>Micro-Fog</td>
<td>1/4&quot;</td>
<td>L72M</td>
<td>51 (24)</td>
<td>2.2</td>
<td>1.1 (0.49)</td>
</tr>
<tr>
<td>Oil Fog</td>
<td>1/4&quot;</td>
<td>L72C</td>
<td>51 (24)</td>
<td>2.2</td>
<td>1.1 (0.49)</td>
</tr>
<tr>
<td>Micro Fog</td>
<td>3/8&quot;</td>
<td>L73M</td>
<td>60 (28)</td>
<td>3.5</td>
<td>1.1 (0.50)</td>
</tr>
<tr>
<td>Oil Fog</td>
<td>3/8&quot;</td>
<td>L73C</td>
<td>60 (28)</td>
<td>3.5</td>
<td>1.1 (0.50)</td>
</tr>
<tr>
<td>Micro Fog</td>
<td>3/8&quot;</td>
<td>L74M</td>
<td>114 (54)</td>
<td>7.0</td>
<td>1.70 (0.77)</td>
</tr>
<tr>
<td>Oil Fog</td>
<td>3/8&quot;</td>
<td>L74C</td>
<td>118 (56)</td>
<td>7.0</td>
<td>1.70 (0.77)</td>
</tr>
<tr>
<td>Micro Fog</td>
<td>1/2&quot;</td>
<td>L74M</td>
<td>154 (73)</td>
<td>7.0</td>
<td>1.61 (0.73)</td>
</tr>
<tr>
<td>Oil Fog</td>
<td>1/2&quot;</td>
<td>L74C</td>
<td>192 (91)</td>
<td>7.0</td>
<td>1.61 (0.73)</td>
</tr>
</tbody>
</table>

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

**Typical flow with 90 psig (6.3 bar) inlet pressure and a pressure drop of 7 psig (0.5 bar).**

† (74) Lubricators with 1 quart (1 liter) metal bowl: Add 2.01 lbs (0.91 kg).

**Options selector**

**ISO Symbols**

No Drain

With Drain

---

**Micro-fog**

**Oil-fog**

**Thread**

PTF

ISO G parallel

**Bowl**

1-qt metal w/liquid level indicator (74) A

Metal w/ liquid level indicator D

Long metal w/liquid level indicator (72) E

Transparent with guard P

Transparent (72, 73) T

---

**A LE-22**

Norgren.com/usa – 303.794.2611 – help@amer.norgren.com
Excelon® modular system

L72M/C, L73M/C, L74M/C Lubricators

Dimensions in inches.

Accessories

- Wall mounting bracket
- Pipe adapters (quantity of 1) (NPT)
- Quikclamp®
- Quikclamp® and wall bracket
- Quick fill nipple
- Service Kit
- Seal and gasket

Typical Performance Characteristics

<table>
<thead>
<tr>
<th>Series</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>2.36</td>
<td>1.65</td>
<td>1.54</td>
<td>0.73</td>
<td>0.16</td>
<td>1.50</td>
<td>0.24</td>
</tr>
<tr>
<td>73</td>
<td>2.64</td>
<td>2.36</td>
<td>1.89</td>
<td>0.75</td>
<td>0.28</td>
<td>1.50</td>
<td>0.24</td>
</tr>
<tr>
<td>74</td>
<td>3.11</td>
<td>2.72</td>
<td>1.97</td>
<td>0.79</td>
<td>0.20</td>
<td>2.01</td>
<td>0.24</td>
</tr>
</tbody>
</table>

*Bracket kit does not include wall mounting screws.

**Optional Pyrex sight-feed dome.

# Minimum clearance required to remove bowl.
Excelon® Pro L92C
Oil-Fog Lubricator

- Easy to order
- Configuration flexibility
- Excellent value
- No tools required for assembly
- RoHs compliant
- Flow sensor provides a nearly constant oil/air ratio over a wide range of flows
- Sight glass dome visible from 360° for ease of drip rate setting

Technical data

Fluid
- Compressed air, neutral gases

Maximum pressure
- Transparent bowl: 175 psig (12 bar)

Operating temperature*
- -4° to 125°F (-20° to 52°C)

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

Materials
- Body: PBT
- Transparent bowl: Polycarbonate
- Elastomers:
  - Bowl and sight-feed dome O-ring - Neoprene
  - All others - nitrile
- Sight-feed dome: Transparent nylon
- Recommended lubricant: DTE Light

Order Information

Model listed below includes oil-fog lubrication, closed bottom bowl, and sight feed dome.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Part Number</th>
<th>Flow* scfm (dm3/s)</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; PTF</td>
<td>L92C2APETN</td>
<td>50 (24)</td>
<td>0.42 (.19)</td>
</tr>
</tbody>
</table>

*Typical flow with 90 psig (6.3 bar) inlet pressure and a pressure drop of 7 psig (0.5 bar)

Flow Characteristics

L92C WITH 1/4" PTF THREADED PORTS

Order Information

Substitute Description

<table>
<thead>
<tr>
<th>Substitute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NN</td>
<td>no connection</td>
</tr>
<tr>
<td>1A</td>
<td>1/8&quot; PTF</td>
</tr>
<tr>
<td>2A</td>
<td>1/4&quot; PTF</td>
</tr>
<tr>
<td>3A</td>
<td>3/8&quot; PTF</td>
</tr>
<tr>
<td>1B</td>
<td>1/8&quot; ISO Rc</td>
</tr>
<tr>
<td>2B</td>
<td>1/4&quot; ISO Rc</td>
</tr>
<tr>
<td>3B</td>
<td>3/8&quot; ISO Rc</td>
</tr>
<tr>
<td>1G</td>
<td>1/8&quot; ISO G</td>
</tr>
<tr>
<td>2G</td>
<td>1/4&quot; ISO G</td>
</tr>
<tr>
<td>3G</td>
<td>3/8&quot; ISO G</td>
</tr>
<tr>
<td>6D</td>
<td>6mm PIF</td>
</tr>
<tr>
<td>8D</td>
<td>8mm (5/16&quot;) PIF</td>
</tr>
<tr>
<td>AD</td>
<td>10mm PIF</td>
</tr>
<tr>
<td>8D</td>
<td>12mm PIF</td>
</tr>
<tr>
<td>4E</td>
<td>1/4&quot; PIF</td>
</tr>
<tr>
<td>6E</td>
<td>3/8&quot; PIF</td>
</tr>
<tr>
<td>8E</td>
<td>1/2&quot; PIF</td>
</tr>
<tr>
<td>2R*</td>
<td>1/4&quot; PTF</td>
</tr>
<tr>
<td>2T*</td>
<td>1/4&quot; ISO Rc</td>
</tr>
<tr>
<td>2V*</td>
<td>1/4&quot; ISO G</td>
</tr>
</tbody>
</table>

* Does not include mounting bracket
All Dimensions in Inches (mm)

Excelon® Pro Modular System

L92C, Oil-Fog Lubricator

Accessories and Kits

<table>
<thead>
<tr>
<th>Threaded connector w/ mounting bracket*</th>
<th>Push-in-Fitting connector w/ mounting bracket*</th>
<th>Threaded connector w/o mounting brackets</th>
<th>Porting block</th>
<th>Quikconnect (quantity of 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection</td>
<td>P/N</td>
<td>Connection</td>
<td>P/N</td>
<td>Connection</td>
</tr>
<tr>
<td>1/8&quot; PTF</td>
<td>9212KT-1A</td>
<td>6mm PIF</td>
<td>9213KT-6D</td>
<td>1/4&quot; PTF</td>
</tr>
<tr>
<td>1/4&quot; PTF</td>
<td>9212KT-2A</td>
<td>8mm (5/16&quot;) PIF</td>
<td>9213KT-8D</td>
<td>1/4&quot; ISO Rc</td>
</tr>
<tr>
<td>3/8&quot; PTF</td>
<td>9212KT-3A</td>
<td>10mm PIF</td>
<td>9213KT-AD</td>
<td>1/4&quot; ISO G</td>
</tr>
<tr>
<td>1/8&quot; ISO Rc</td>
<td>9212KT-1B</td>
<td>12mm PIF</td>
<td>9213KT-BD</td>
<td>1/4&quot; ISO Rc</td>
</tr>
<tr>
<td>1/8&quot; ISO G</td>
<td>9212KT-1G</td>
<td>1/2&quot; PIF</td>
<td>9213KT-8E</td>
<td></td>
</tr>
<tr>
<td>1/4&quot; ISO G</td>
<td>9212KT-2G</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/8&quot; ISO G</td>
<td>9212KT-3G</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Use 1/4" (6 mm) screws and appropriate washers when attaching brackets to a surface.

<table>
<thead>
<tr>
<th>Service kit</th>
<th>Locking plate kits**</th>
</tr>
</thead>
<tbody>
<tr>
<td>with bowl O-ring, feed dome seal</td>
<td>9236-88/X10 (qty 10) (fits filter, lubricator, lockout valves, and back of all units)</td>
</tr>
<tr>
<td>P/N L92C-KIT</td>
<td>9236-89/X10 (qty 10) (fits regulator, filter/regulator, porting block)</td>
</tr>
</tbody>
</table>

** Locking plates MUST be in place before pressurizing any Excelon Pro unit.

Connector Dimensions

1/8" and 1/4" threaded connectors shown. See below for port-to-port dimensions for additional connectors.

<table>
<thead>
<tr>
<th>Connector</th>
<th>Port-to-port</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIF Connector</td>
<td>1/4&quot;, 6mm, 8mm (5/16&quot;) 2.37&quot; (60.2)</td>
</tr>
<tr>
<td>3/8&quot;, 1/2&quot;, 10mm, 12mm 2.48&quot; (62.9)</td>
<td></td>
</tr>
<tr>
<td>Threaded connector</td>
<td>1/8&quot;, 1/4&quot; 1.79&quot; (45.5)</td>
</tr>
<tr>
<td>3/8&quot; 2.99&quot; (76.1)</td>
<td></td>
</tr>
</tbody>
</table>

† Distance required to remove bowl.
Excelon® modular system

Excelon® design allows in-line installation or modular installation with other Excelon® products
Push to lock adjusting knob with tamper resistant accessory
Helps protect air operated equipment from over pressure by retarding excessive pressure build up

Technical data
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum pressure:
300 psig (20 bar)

Operating Temperature*:
(72) -30° to 150°F (-34° to 65°C)
(74) -30° to 175°F (-34° to 80°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

V72
Gauge Ports:
1/8” PTF with PTF main ports
1/8” ISO Rc with ISO G main ports
Exhaust Port:
1/4” PTF with PTF main ports
1/4” ISO Rc with ISO G main ports

Materials
V72G
Body: zinc body
Bonnet: acetal
Elastomers: neoprene
Bottom plug: acetal
V74G
Body & bonnet: aluminum
Valve: aluminum and nitrile
Elastomers: neoprene
Bottom plug: acetal

Ordering Information
Models listed include PTF threads, knob adjustment, and a 5 to 150 psig (0.3 to 10 bar) relief pressure adjustment range, with gauge.*

<table>
<thead>
<tr>
<th>Size</th>
<th>Model</th>
<th>Service kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>V72G 2AK NMG</td>
<td>4209 03</td>
</tr>
<tr>
<td>1/8</td>
<td>V74G 3AK NMG</td>
<td>4384 700</td>
</tr>
<tr>
<td>1/2</td>
<td>V74G 4AK NMG</td>
<td>4384 700</td>
</tr>
<tr>
<td>3/4</td>
<td>V74G 6AK NMG</td>
<td>4384 700</td>
</tr>
</tbody>
</table>

Note: for Excelon 73 combinations use V74G.

Options selector

Relief Flow

<table>
<thead>
<tr>
<th>V72G</th>
<th>V74G</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>

* Relief valve can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.
** Units with 250 psig relief pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th position and S at the 9th position.
Excelon® modular system

V72G, V74G Pressure Relief Valves

Dimensions in inches.

Accessories

<table>
<thead>
<tr>
<th>Wall mounting bracket*</th>
<th>Neck mounting bracket</th>
<th>Gauge 0 ... 160 psig</th>
<th>Plastic panel nut</th>
<th>Tamper resistant cover and seal wire</th>
<th>Pipe adapters (quantity of 1(NPT))</th>
<th>Quikclamp®</th>
<th>Quikclamp® and wall bracket</th>
<th>Service kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>V74G 4324-50</td>
<td>4368-51</td>
<td>18-013-209</td>
<td>4348-89</td>
<td>4355-51</td>
<td>4315-02 (3/8)</td>
<td>4315-03 (1/2)</td>
<td>4314-51</td>
<td>4314-52</td>
</tr>
</tbody>
</table>

* Bracket kit does not include wall mounting screws.

Typical Performance Characteristics

**V72 RELIEF CHARACTERISTICS**

**V74 RELIEF CHARACTERISTICS**

Norgren.com/usa – 303.794.2611 – help@amer.norgren.com
Excelon® Filter-Filter
Combination Units
H72G/C, H73G/C, H74G/C

True modularity with Norgren Quikclamp® connections
General purpose and oil removal filter provide high efficiency oil removal and particle removal down to 0.01 µm
Quick release bayonet bowl
Highly visible, prismatic liquid level indicator lens
Service indicator turns from green to red when the filter element needs to be replaced

Technical data
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum pressure:
Transparent bowl: 150 psig (10 bar)
Metal bowl: 250 psig (17 bar)
(72) metal bowl w/autodrain: 116 psig (8 bar)

Operating temperature*:
Transparent bowl:
-30°F to 125°F (-34° to 50°C)
Metal bowl:
-30°F to 150°F (-34 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
Oil removal:
to class level 2: 0.01 mg/m³

Materials
Body: Zinc, or aluminum
Bowl: (72) zinc, (73, 74) aluminum polycarbonate
Metal bowl liquid level indicator lens: Transparent nylon
F72G, F73G, F74G element: sintered polypropylene
F72C, F73C, F74C element: synthetic fiber and polyurethane foam
Elastomers: neoprene and nitrile
Service indicator materials
Body: transparent nylon
Internal parts: acetal
Spring: stainless steel
Elastomers: nitrile

Ordering information
Models listed include PTF threads, service indicator, automatic drain, and metal bowl with level indicator.

<table>
<thead>
<tr>
<th>Part Size</th>
<th>Model</th>
<th>Weight</th>
<th>lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>H72A 2AB AE1 NNN LNN</td>
<td>2 (0.91)</td>
<td></td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>H73A 3AB AD1 NNN DNN</td>
<td>2.7 (1.22)</td>
<td></td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>H74A 4AB AD1 NNN DNN</td>
<td>4.06 (1.84)</td>
<td></td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>H74B 5AB AD1 NNN DNN</td>
<td>4.81 (2.18)</td>
<td></td>
</tr>
</tbody>
</table>

Standard Type H72A-Shown with optional Quikclamp® wall bracket.
Standard Type H73A-Shown with optional Quikclamp® wall bracket.
Standard Type H74A Shown (H74B Similar) Shown with optional Quikclamp® wall bracket.
Excelon® Filter/Regulator-Lubricator Combination Units
B72/L72, B73/L73, B74/L74

True modularity with Norgren Quikclamp® connections
Quick release bayonet bowl
Lubricator flow sensor provides a nearly constant oil/air ratio over a wide range of air flows
All around (360°) visibility of the lubricator sight-feed dome simplifies installation and adjustment
Regulator balanced valve minimizes effect of variation in the inlet pressure on the outlet pressure

Technical data
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum pressure:
Transparent bowl: 150 psig (10 bar)
Metal bowl (manual or semi automatic drain): 250 psig (17 bar)
(72) 150 psig (10 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).

Particle removal:
5 µm, or 40 µm filter element

Materials
Body: zinc or aluminum
Bonnet: acetal or aluminum
Bowl:
Metal bowl: (72) zinc
(73, 74) aluminum
polycarbonate
Metal bowl liquid level indicator lens: transparent nylon
Sight-feed dome: transparent nylon
Element: sintered polypropylene
Elastomers: neoprene, nitrile

Ordering information
Models include PTF threads. Filter/Regulator (F/R) has knob adjustment, automatic drain, metal bowl with level indicator, 40 µm element, relieving diaphragm, and 150 psig (10 bar) regulating spring, and gauge. Lubricator (L) is a Micro-Fog model with 1/4 turn manual drain and metal bowl with level indicator.

<table>
<thead>
<tr>
<th>Combination Unit Type</th>
<th>Port Size</th>
<th>Model**</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter/Regulator-Lubricator</td>
<td>1/4&quot;</td>
<td>C72H 3AK A63 RMG DGB</td>
<td>2.37 (1.08)</td>
</tr>
<tr>
<td>(F/R L)</td>
<td>3/8&quot;</td>
<td>C73H 3AK A63 RMG DGB</td>
<td>3.0 (1.36)</td>
</tr>
<tr>
<td>(F/R L)</td>
<td>1/2&quot;</td>
<td>C74H 4AK A63 RMG DGB</td>
<td>5.07 (2.30)</td>
</tr>
<tr>
<td>(F/R L)</td>
<td>3/4&quot;</td>
<td>C74H 6AK A63 RMG DGB</td>
<td>5.00 (2.27)</td>
</tr>
</tbody>
</table>

** For oil fog lubricator use “J” in the 4th position.

Other combinations are available. Please consult Norgren for more information.
Compact design
Filter has high efficiency water and particle removal
Push to lock adjusting knob with tamper resistant option
Nearly constant oil density output with varying air flow
Use Micro-Fog models in applications containing one or more points of lubrication.
Use Oil-Fog models to lubricate a single tool, cylinder, or other air driven device.

Technical data
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum pressure
Transparent bowl: 150 psig (10 bar)
Metal bowl w/manual drain:
250 psig (17 bar)
(72) 150 psig (10 bar)
Operating temperature*
Transparent bowl:
0° to 125°F (-20° to 50°C)
Metal bowl:
(72) 0° to 150°F (-20° to 65°C)
(73, 74) -30° to 175°F (-34° to 80°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Particle removal:
5 µm, or 40 µm filter element

Materials
Body: (72) zinc (73, 74) aluminum
Bonnet: (72) acetal (73, 74) aluminum
Regulator bottom plug: acetal
Bowl: (72) zinc (73, 74) aluminum or polycarbonate
Metal bowl liquid level indicator lens: transparent nylon
Sight-feed dome: transparent nylon
Element: sintered polypropylene
Elastomers: neoprene, nitrile

Ordering information
Models listed include PTF threads. Filter (F) includes automatic drain, metal bowl with level indicator, and a 40µm element. Regulator (R) is relieving type with knob adjustment, 150 psig (10 bar) regulating spring, and gauge. Lubricator (L) is a Micro-Fog model with 1/4 turn manual drain and metal bowl with level indicator.

<table>
<thead>
<tr>
<th>Combination Unit Type</th>
<th>Port Size</th>
<th>Model**</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter-Regulator-Lubricator</td>
<td>1/4&quot;</td>
<td>C72A 2AK AE3 RMG 0EB</td>
<td>3.23 (1.47)</td>
</tr>
<tr>
<td></td>
<td>3/8&quot;</td>
<td>C73A 3AK AD3 RMG 0DB</td>
<td>4.36 (1.98)</td>
</tr>
<tr>
<td></td>
<td>1/2&quot;</td>
<td>C74A 4AK AD3 RMG 0DB</td>
<td>6.04 (2.74)</td>
</tr>
<tr>
<td></td>
<td>3/4&quot;</td>
<td>C74A 6AK AD3 RMG 0DB</td>
<td>5.91 (2.68)</td>
</tr>
</tbody>
</table>

** For oil fog lubricator use “B” in the 4th position.

Other combinations are available. Please consult Norgren for more information.
Filter-Lubricator Combination Units
C72C, C73C, C74C Series

True modularity with Norgren Quikclasp® connections
Quick release bayonet bowl
Flow sensor design provides a nearly constant oil/air ratio over a wide range of air flows
Highly visible, prismatic liquid level indicator lens
All around (360°) visibility of the sight-feed dome simplifies installation and adjustment
Use Micro-Fog models in applications containing one or more points of lubrication. Use Oil-Fog models to lubricate a single tool, cylinder, or other air driven device.

Technical data

Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum pressure:
Transparent bowl: 150 psig (10 bar)
Metal bowl: (72) 150 psig (10 bar)
(74) 250 psig (17 bar)

Operating temperature*:
Transparent bowl:
0° to 125°F (-20° to 50°C)
Metal bowl:
(72) 0° to 150°F (-20° to 65°C)
(73, 74) -30° to 175°F (-34° to 80°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Particle removal:
5 µm or 40 µm filter element

Materials
Body: zinc
Bowl: zinc, aluminum, or polycarbonate
Metal bowl liquid level indicator lens: transparent nylon
Element: sintered polypropylene
Sight-feed dome: transparent nylon
Elastomers: neoprene, nitrile

Ordering information
Models listed include PTF threads. Filter (F) has automatic drain, metal bowl with level indicator, and a 40 µm element. Lubricator (L) is a Micro-Fog model with 1/4 turn manual drain and metal bowl with indicator.

<table>
<thead>
<tr>
<th>Combination Unit Type</th>
<th>Port Size</th>
<th>Model**</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter-Lubricator (F-L)</td>
<td>1/4&quot;</td>
<td>C72C 2AN AE3 NNN QEB</td>
<td>2.3 (1.04)</td>
</tr>
<tr>
<td></td>
<td>3/8&quot;</td>
<td>C73C 3AN AD3 NNN Q06</td>
<td>2.6 (1.18)</td>
</tr>
<tr>
<td></td>
<td>1/2&quot;</td>
<td>C74C 4AN AD3 NNN Q06</td>
<td>3.84 (1.74)</td>
</tr>
<tr>
<td></td>
<td>3/4&quot;</td>
<td>C74C 6AN AD3 NNN Q06</td>
<td>3.75 (1.70)</td>
</tr>
</tbody>
</table>

** For oil fog lubricator use “D” in the 4th position.

Other combinations are available. Please consult Norgren for more information.
Excelon® valves
P72F, P74F Smooth start/Exhaust valves

Excelon® design allows in-line or modular installation
Controls increase of downstream pressure on start up. Cylinders and other air operated devices are eased into normal operating positions, reducing the possibility of equipment damage and hazards to the user.
Blocks inlet air and exhausts downstream air when pilot signal is removed or when the optional manual lockout slide is closed
Optional manual slide can be padlocked in closed position
Solenoid pilot or air pilot operation
Designed for use in start-up and shutdown of equipment.

Technical data
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum pressure solenoid operated:
Dependent on solenoid rating
[must not exceed 150 psig (10 bar)]
Maximum pressure pilot operated:
150 psig (10 bar) max.
Minimum operating pressure:
44 psig (3 bar)

Operating temperature solenoid operated:
Dependent on solenoid rating
[must be within range
0°F to 150°F (-20°C to 65°C) (72)]
[must be within range
0°F to 175°F (-20°C to 80°C) (74)]

Operating temperature pilot operated:
0°F to 150°F (-20°C to 65°C) (72)
0°F to 175°F (-20°C to 80°C) (74)

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

Materials
Body: Zinc alloy (72) Aluminum (74)
Elastomers: Synthetic materials
Filter discs: Sintered plastic
Internal components: Brass/steel

Ordering Information
Models listed include PTF threads. Solenoid operated models include 24 VDC coil and plug without indicator.

<table>
<thead>
<tr>
<th>Port size</th>
<th>Solenoid operated*</th>
<th>lb (kg)</th>
<th>Air pilot operated</th>
<th>lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; P72F-2AC-PFA</td>
<td>2.0 (0.91)</td>
<td>P72F-2AA-NNN</td>
<td>1.93 (0.88)</td>
<td></td>
</tr>
<tr>
<td>3/8&quot; P74F-3AC-PFA</td>
<td>2.4 (1.08)</td>
<td>P74F-3AA-NNN</td>
<td>2.3 (1.06)</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; P74F-4AC-PFA</td>
<td>2.3 (1.05)</td>
<td>P74F-4AA-NNN</td>
<td>2.2 (1.02)</td>
<td></td>
</tr>
<tr>
<td>3/4&quot; P74F-6AC-PFA</td>
<td>3.1 (1.41)</td>
<td>P74F-6AA-NNN</td>
<td>3.0 (1.35)</td>
<td></td>
</tr>
</tbody>
</table>

* Solenoid operated models are supplied with 22 mm 24 V d.c. 2 W coil and connector plug without indicator light. To select alternative voltages and other options refer to the Options selector below. For connector plugs see next page.

** Factory repair only

Options selector

ISO Symbols
Solenoid operated
Air pilot

Series Substitute
72 2
74 4

Port size Substitute
1/4" (72) 2
3/8" 3
1/2" (74) 4
3/4" (74) 6

Operator Substitute
AIR
Air pilot
Air pilot with manual lockout slide (74) B
22 mm miniature solenoid C
22 mm miniature solenoid with manual lockout slide (74) D

Threads Substitute
PTF A
ISO G parallel G

Connectors Substitute
3 pin plug with cable gland, no indicator light A
Without N

Coil voltage Nominal power rating Substitute
24 V d.c. 2 W F
110/120 V 4/2.5 VA, 50/60 Hz A
No solenoid N

Solenoid manual operator Substitute
Shrouded push button P
None N

Norgren.com/usa – 303.794.2611 – help@amer.norgren.com
Excelon® valves

P72F, P74F Smooth start/Exhaust valves

Dimensions in inches (mm)

Accessories

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Exhaust port silencer</td>
<td>Quikmount pipe adapters (quantity of 1)</td>
<td>Quikclamp®</td>
<td>Quikclamp® and wall bracket</td>
</tr>
<tr>
<td>P72F</td>
<td>MB002A</td>
<td>4215-02 (1/4)</td>
<td>4214-51</td>
<td>4214-52</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4215-03 (3/8)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P74F</td>
<td>MB004A</td>
<td>4315-02 (3/8)</td>
<td>4314-51</td>
<td>4314-52</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4215-03 (1/2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4315-04 (3/4)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Indicator type

- P72F MB002A 4215-02 (1/4) 4214-51 4214-52 54934-08* 12...24 V a.c./d.c. Indicator type
- P72F MB002A 4215-03 (3/8) 4214-51 4214-52 54934-01 110/120 V a.c. Indicator type
- P74F MB004A 4315-02 (3/8) 4314-51 4314-52 54934-08* 12...24 V a.c./d.c. Indicator type
- P74F MB004A 4315-03 (1/2) 4314-51 4314-52 54934-02 110/120 V a.c. Indicator type
- P74F MB004A 4315-04 (3/4) 4314-51 4314-52 54934-01 110/120 V a.c. Indicator type

*Reduced light intensity at 12 V.

Typical Performance Characteristics

- Solenoid operated plus manual shut-off with lockout
- Air pilot operated plus manual shut-off with lockout
- Solenoid operated
- Air pilot operated

Norgren.com/usa – 303.794.2611 – help@amer.norgren.com
Excelon Valves

Excelon Pro P92E
Smooth Start Valve
ISO Symbol

Order Information
Model listed does not include end caps.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Part Number</th>
<th>Flow (Cv)</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; PTF</td>
<td>P92E-2AN-NNN</td>
<td>2.62</td>
<td>0.23 (0.10)</td>
</tr>
</tbody>
</table>

P72E and P74E
Excelon® 72 and 74 Smooth Start
Valves 1/4", 3/8", and 1/2" Port Sizes
ISO Symbol

Ordering Information
Models listed are with PTF threads.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>P72E-2AN-NNN</td>
<td>1.86 (0.84)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>P72E-3AN-NNN</td>
<td>1.80 (0.82)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>P74E-NNN-NNN</td>
<td>1.17 (0.53)</td>
</tr>
</tbody>
</table>

P72C
Excelon® 72 Air or Solenoid Operated
Directional Control Valves 1/4", 3/8" Port Sizes
ISO Symbols

Ordering Information
Models listed with PTF threads. Solenoid operated models include 24 V.d.c. coil and plug without indicator.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Solenoid Operated Model</th>
<th>Weight lb (kg)</th>
<th>Air Pilot Operated Model</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>P72C-2AC-PFA</td>
<td>2.11 (0.96)</td>
<td>P72C-2AA-NNN</td>
<td>1.86 (0.84)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>P72C-3AC-PFA</td>
<td>2.05 (0.93)</td>
<td>P72C-3AA-NNN</td>
<td>1.80 (0.82)</td>
</tr>
</tbody>
</table>

P74 Air Operated
Excelon® 74 Air Operated Directional Control Valves Unthreaded
Ports, 1/2" Basic Size
ISO Symbols

Ordering Information
Models listed include PTF threads in the pilot and exhaust ports.

<table>
<thead>
<tr>
<th>Installation Type</th>
<th>2 Port/2 Position Normally Closed</th>
<th>2 Port/2 Position Normally Open</th>
<th>3 Port/2 Position Normally Closed</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modular*</td>
<td>P74A-NNN-NNN</td>
<td>P74B-NNN-NNN</td>
<td>P74C-NNN-NNN</td>
<td>2.20 (1.00)</td>
</tr>
</tbody>
</table>

* Valve main ports are unthreaded. To install in air line or connect to other Excelon® 74 units use Quickclamp® and Quickclamp® pipe adapters.
Excelon Pro P92C
Solenoid or air pilot operated 3/2 directional control valve

ISO Symbol

Solenoide operated
Air pilot

Order Information
Model listed includes 15 mm pilot solenoid with DIN connector.

<table>
<thead>
<tr>
<th>Port size</th>
<th>Part Number</th>
<th>Flow (Cv)</th>
<th>Weight lb (kg)</th>
<th>Spares kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; PTF</td>
<td>P92C-2AT-PFA</td>
<td>2.33</td>
<td>0.36 (0.17)</td>
<td>P92C-KIT</td>
</tr>
</tbody>
</table>

* Valve main ports are unthreaded. To install in air line or connect to other Excelon® 74 units use Quikclamp® and Quikclamp® pipe adapters.

P74 Solenoid Operated Valve
Excelon® 74 Solenoid Operated Directional Control Valve
Unthreaded Ports, 1/2" Basic Size

ISO Symbols

Solenoide operated
Air pilot

Ordering Information
Models listed include PTF exhaust port threads, non-locking override, 110/120Vac standard coil, and cable grip connector.

<table>
<thead>
<tr>
<th>Installation Type</th>
<th>2 Port/2 Position Normally Closed</th>
<th>2 Port/2 Position Normally Open</th>
<th>3 Port/2 Position Normally Closed</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modular*</td>
<td>P74A-NNC-PJA</td>
<td>P74B-NNC-PJA</td>
<td>P74C-NAC-PJA</td>
<td>1.63 (0.74)</td>
</tr>
</tbody>
</table>

* Valve main ports are unthreaded. To install in air line or connect to other Excelon® 74 units use Quikclamp® and Quikclamp® pipe adapters.

P74 Lockout Valve
Excelon® 74 Solenoid Operated Valve with Lockout Unthreaded Ports, 1/2" Basic Size

ISO Symbol

3-Port/2-Position Normally Closed

Ordering Information
Models listed include PTF exhaust port threads, non-locking override, 110/120Vac coil, and cable grip connector.

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

* Valve main ports are unthreaded. To install in air line or connect to other Excelon® 74 units use Quikclamp® and Quikclamp® pipe adapters.
Excelon® lockout valves

1/4" to 3/4" port size

Excelon® design allows in-line or modular installation

Valves can be locked in the closed position only

Excelon® 3-port/2-position lockout valves help conform to OSHA Lockout regulations in USA market.

**Technical data**

Fluid: Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum Pressure: 250 psig (17 bar)

Operating Temperature*: -30° to 150°F (-34° to 65°C)

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

Cv factor from IN to OUT ports

<table>
<thead>
<tr>
<th>Port Size</th>
<th>IN to OUT</th>
<th>Unthreaded</th>
<th>Threaded</th>
<th>Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>4.0</td>
<td>4.0</td>
<td>0.79</td>
<td>0.36</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>8.0</td>
<td>8.0</td>
<td>0.86</td>
<td>0.39</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>8.1</td>
<td>0.7</td>
<td>0.3</td>
<td></td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>7.7</td>
<td>0.7</td>
<td>0.3</td>
<td></td>
</tr>
</tbody>
</table>

Cv factor from OUT to Exhaust ports on 3-port/2-position valves: 0.2.

Exhaust port threads on T72T and T73T models: 10-32

Exhaust port threads on T74T models: 1/8 PTF with PTF main ports

1/8" ISO Rc with ISO G and ISO Rc main ports

Hole diameter in slide for padlock 72 and 73: 5/16" (8 mm)

Hole diameter in slide for padlock: 0.29" (7.5 mm)

**Materials**

- Body: Zinc
- Slide: Acetal plastic
- Elastomers: Nitrile

**Ordering Information**

Models listed are with PTF threads.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>2-Port/2-Position</th>
<th>3-Port/2-Position (OSHA)</th>
<th>3-Port/2-Position</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No exhaust outlet</td>
<td>Unthreaded exhaust port</td>
<td>Threaded exhaust port</td>
<td></td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>T72B-2AA-P1N</td>
<td>T72E-2AA-P1N</td>
<td>T72T-2AA-P1N</td>
<td>0.79 (0.36)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>T72B-3AA-P1N</td>
<td>T72E-3AA-P1N</td>
<td>T72T-3AA-P1N</td>
<td>0.86 (0.39)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>T72B-4AA-P1N</td>
<td>T72E-4AA-P1N</td>
<td>T72T-4AA-P1N</td>
<td>0.7 (0.3)</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>T72B-6AA-P1N</td>
<td>T72E-6AA-P1N</td>
<td>T72T-6AA-P1N</td>
<td>0.62 (0.28)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Port Size</th>
<th>2-Port/2-Position</th>
<th>3-Port/2-Position (OSHA)</th>
<th>3-Port/2-Position</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No exhaust outlet</td>
<td>Unthreaded exhaust port</td>
<td>Threaded exhaust port</td>
<td></td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>T73B-2AA-P1N</td>
<td>T73E-2AA-P1N</td>
<td>T73T-2AA-P1N</td>
<td>0.7 (0.3)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>T73B-3AA-P1N</td>
<td>T73E-3AA-P1N</td>
<td>T73T-3AA-P1N</td>
<td>0.7 (0.3)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>T73B-4AA-P1N</td>
<td>T73E-4AA-P1N</td>
<td>T73T-4AA-P1N</td>
<td>0.7 (0.3)</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>T73B-6AA-P1N</td>
<td>T73E-6AA-P1N</td>
<td>T73T-6AA-P1N</td>
<td>0.69 (0.32)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Port Size</th>
<th>2-Port/2-Position</th>
<th>3-Port/2-Position (OSHA)</th>
<th>3-Port/2-Position</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Padlock closed only</td>
<td>Unthreaded exhaust port</td>
<td>Threaded exhaust port</td>
<td></td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>T74B-3AA-P1N</td>
<td>T74E-3AA-P1N</td>
<td>T74T-3AA-P1N</td>
<td>0.65 (0.30)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>T74B-4AA-P1N</td>
<td>T74E-4AA-P1N</td>
<td>T74T-4AA-P1N</td>
<td>0.69 (0.32)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>T74B-6AA-P1N</td>
<td>T74E-6AA-P1N</td>
<td>T74T-6AA-P1N</td>
<td>0.62 (0.28)</td>
</tr>
</tbody>
</table>

**Service Kits**

<table>
<thead>
<tr>
<th>Type</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>T72</td>
<td>4384-513</td>
</tr>
<tr>
<td>T73B (black)</td>
<td>4384-610</td>
</tr>
<tr>
<td>T73E (yellow)</td>
<td>4384-611</td>
</tr>
<tr>
<td>T73T (red)</td>
<td>4384-612</td>
</tr>
<tr>
<td>T74B (black)</td>
<td>4384-711</td>
</tr>
<tr>
<td>T74E (yellow)</td>
<td>4384-710</td>
</tr>
<tr>
<td>T74T (red)</td>
<td>4384-713</td>
</tr>
</tbody>
</table>

* Service kit includes seals and slide.
Excelon lockout valves

1/4" to 3/4" port size

Dimensions in inches (mm)

T72

1.97 (50)

1.89 (48)

3.46 (88)

T73

2.13 (54)

2.32 (59)

3.46 (88)

T74

1.22 (31)

1.55 (39)

2.74 (70)

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ALE-37
# Excelon® Pro T92

Lockout/shut-off valve

- Easy to order
- Configuration flexibility
- Excellent value
- No tools required for assembly
- RoHs compliant

## Technical data

**Fluid:** Compressed air, neutral gases  
*NOTE:* Contact Norgren for use with other media.

### Maximum pressure

- 175 psig (12 bar)
- Cv factor from IN to OUT ports
  - 1/4” PTF: 2.57
  - 3/8” PIF: 1.77

### Operating temperature*

- -4° to 140°F (-20° to 60°C)
  * Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

### Materials

- **Body:** PBT
- **Elastomers:** Nitrile

---

**ISO Symbols**

<table>
<thead>
<tr>
<th>2-Port/2-Position</th>
<th>3-Port/2-Position</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Symbol" /></td>
<td><img src="image" alt="Symbol" /></td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>Port Size</th>
<th>2-Port/2-Position</th>
<th>3-Port/2-Position (OSHA)</th>
<th>3-Port/2-Position</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4” PTF</td>
<td>T92B-2AN-B1N</td>
<td>T92E-2AN-B1N</td>
<td>T92T-2AN-B1N</td>
<td>.35 (.16)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substitute</th>
<th>Exhaust port</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Plugged</td>
</tr>
<tr>
<td>E</td>
<td>Unthreaded</td>
</tr>
<tr>
<td>T</td>
<td>Threaded M5 (10-32 UNF)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substitute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NN</td>
<td>no connection</td>
</tr>
<tr>
<td>1A</td>
<td>1/8” PTF</td>
</tr>
<tr>
<td>2A</td>
<td>1/4” PTF</td>
</tr>
<tr>
<td>3A</td>
<td>3/8” PTF</td>
</tr>
<tr>
<td>1B</td>
<td>1/8” ISO Rc</td>
</tr>
<tr>
<td>2B</td>
<td>1/4” ISO Rc</td>
</tr>
<tr>
<td>3B</td>
<td>3/8” ISO Rc</td>
</tr>
<tr>
<td>1G</td>
<td>1/8” ISO G</td>
</tr>
<tr>
<td>2G</td>
<td>1/4” ISO G</td>
</tr>
<tr>
<td>3G</td>
<td>3/8” ISO G</td>
</tr>
<tr>
<td>6D</td>
<td>6mm PIF</td>
</tr>
<tr>
<td>8D</td>
<td>8mm (5/16”) PIF</td>
</tr>
<tr>
<td>AD</td>
<td>10mm PIF</td>
</tr>
<tr>
<td>BD</td>
<td>12mm PIF</td>
</tr>
<tr>
<td>4E</td>
<td>1/4” PIF</td>
</tr>
<tr>
<td>6E</td>
<td>3/8” PIF</td>
</tr>
<tr>
<td>8E</td>
<td>1/2” PIF</td>
</tr>
<tr>
<td>2R</td>
<td>1/4” PTF</td>
</tr>
<tr>
<td>2T</td>
<td>1/4” ISO Rc</td>
</tr>
<tr>
<td>2V</td>
<td>1/4” ISO G</td>
</tr>
</tbody>
</table>

* Does not include mounting bracket

---

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Excelon® Pro Modular System

T92, Lockout/shut-off valve

Accessories and Kits

<table>
<thead>
<tr>
<th>Threaded connector w/ mounting bracket*</th>
<th>Push-in-Fitting connector w/ mounting bracket*</th>
<th>Threaded connector w/o mounting brackets</th>
<th>Porting block</th>
<th>Quikconnect™ (quantity of 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection</td>
<td>P/N</td>
<td>Connection</td>
<td>P/N</td>
<td>Connection</td>
</tr>
<tr>
<td>1/8” PTF</td>
<td>9212KIT-1A</td>
<td>6mm PIF</td>
<td>9213KIT-6D</td>
<td>1/4” PTF</td>
</tr>
<tr>
<td>1/4” PTF</td>
<td>9212KIT-2A</td>
<td>8mm (5/16”) PIF</td>
<td>9213KIT-8D</td>
<td>1/4” ISO Rc</td>
</tr>
<tr>
<td>3/8” PTF</td>
<td>9212KIT-3A</td>
<td>10mm PIF</td>
<td>9213KIT-AD</td>
<td>1/4” ISO G</td>
</tr>
<tr>
<td>1/8” ISO Rc</td>
<td>9212KIT-1B</td>
<td>12mm PIF</td>
<td>9213KIT-8D</td>
<td></td>
</tr>
<tr>
<td>1/4” ISO Rc</td>
<td>9212KIT-2B</td>
<td>1/4” PIF</td>
<td>9213KIT-4E</td>
<td></td>
</tr>
<tr>
<td>3/8” ISO Rc</td>
<td>9212KIT-3B</td>
<td>3/8” PIF</td>
<td>9213KIT-6E</td>
<td></td>
</tr>
<tr>
<td>1/8” ISO G</td>
<td>9212KIT-1G</td>
<td>1/2” PIF</td>
<td>9213KIT-8E</td>
<td></td>
</tr>
<tr>
<td>1/4” ISO G</td>
<td>9212KIT-2G</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/8” ISO G</td>
<td>9212KIT-3G</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Use 1/4” (6 mm) screws and appropriate washers when attaching brackets to a surface.

** Locking plates MUST be in place before pressurizing any Excelon Pro unit.

* Connector Dimensions

1/8” and 1/4” threaded connectors shown. See below for port-to-port dimensions for additional connectors.

<table>
<thead>
<tr>
<th>Connector</th>
<th>Port-to-port</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIF Connector</td>
<td></td>
</tr>
<tr>
<td>1/4”, 6mm, 8mm (5/16”)</td>
<td>2.37” (60.2)</td>
</tr>
<tr>
<td>3/8”, 1/2”, 10mm, 12mm</td>
<td>2.43” (61.9)</td>
</tr>
<tr>
<td>Threaded connector</td>
<td></td>
</tr>
<tr>
<td>1/8”, 1/4”</td>
<td>1.79” (45.5)</td>
</tr>
<tr>
<td>3/8”</td>
<td>2.99” (76.1)</td>
</tr>
</tbody>
</table>

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Olympian Plus General Purpose Filter

F64G, F68E General purpose filters

Olympian Plus plug in system
Effective liquid removal and positive solid particle filtration
Large filter element area provides minimum pressure drop
Optional visual service indicator turns from green to red when the filter element needs to be replaced
Factory option electrical service life indicator provides electrical output when the filter element needs to be replaced

Technical data
Fluid: Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

64 Series
Maximum pressure
Guarded transparent bowl: 150 psig (10 bar)
Metal bowl: 250 psig (17 bar)
Operating temperature*: Guarded transparent bowl: -30° to 125°F (-34° to 50°C)
Metal bowl: -30° to 175°F (-34° to 80°C)
68 Series
Maximum pressure: 250 psig (17 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).

Materials
F64G
Body: Zinc
Yoke: Zinc
Metal bowl: Aluminum
Standard metal bowl prismatic liquid level indicator lens: Grilamid
Optional metal bowl sight glass: Pyrex
Optional transparent bowl:
Polycarbonate
Element: Polypropylene
Elastomers: Nitrile
F68E
Body: Aluminum
Yoke: Aluminum
Bowl: Aluminum
Liquid level indicator: Pyrex
Element: Sintered bronze or polypropylene
Elastomers: Nitrile

Ordering Information
Models listed are with PTF threads, metal bowl with sight glass, automatic drain, and 40 µm element.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Flow† scfm (dm³/s)</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>F64G-4AN-AD3</td>
<td>125 (59)</td>
<td>2.91 (1.32)</td>
</tr>
<tr>
<td>1&quot;</td>
<td>F68E-8AN-AU3</td>
<td>403 (190)</td>
<td>5.1 (2.33)</td>
</tr>
</tbody>
</table>

†Typical flow with 40 µm element at 90 psig (6.3 bar) inlet pressure and a 5 psig (0.35 bar) pressure drop.

Options selector (F64G)

<table>
<thead>
<tr>
<th>Port size</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>2</td>
</tr>
<tr>
<td>3/8</td>
<td>3</td>
</tr>
<tr>
<td>1/2</td>
<td>4</td>
</tr>
<tr>
<td>3/4</td>
<td>6</td>
</tr>
<tr>
<td>No yoke</td>
<td>N</td>
</tr>
</tbody>
</table>

Options selector (F68E)

<table>
<thead>
<tr>
<th>Port size</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4</td>
<td>6</td>
</tr>
<tr>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>1-1/4</td>
<td>A</td>
</tr>
<tr>
<td>1-1/2</td>
<td>B</td>
</tr>
<tr>
<td>No yoke</td>
<td>N</td>
</tr>
</tbody>
</table>

Materials
F64G
Body: Zinc
Yoke: Zinc
Metal bowl: Aluminum
Standard metal bowl prismatic liquid level indicator lens: Grilamid
Optional metal bowl sight glass: Pyrex
Optional transparent bowl:
Polycarbonate
Element: Polypropylene
Elastomers: Nitrile
F68E
Body: Aluminum
Yoke: Aluminum
Bowl: Aluminum
Liquid level indicator: Pyrex
Element: Sintered bronze or polypropylene
Elastomers: Nitrile

ISO Symbols
Auto Drain
Manual Drain

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### Accessories

<table>
<thead>
<tr>
<th>Bracket kit</th>
<th>Bracket kit</th>
<th>3/2 Shut-off valve</th>
<th>Single Yoke</th>
<th>Double Yoke</th>
<th>Service Kit &amp; elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>F64G 1/4</td>
<td>–</td>
<td>74504-50</td>
<td>T64E-2AB-P1N</td>
<td>Y64A-2AA-N1N</td>
<td>Y64A-2AA-N2N</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/8</td>
<td>–</td>
<td>74504-50</td>
<td>T64E-3AB-P1N</td>
<td>Y64A-3AA-N1N</td>
<td>Y64A-3AA-N2N</td>
</tr>
<tr>
<td>1/2</td>
<td>–</td>
<td>74504-50</td>
<td>T64E-4AB-P1N</td>
<td>Y64A-4AA-N1N</td>
<td>Y64A-4AA-N2N</td>
</tr>
<tr>
<td>3/4</td>
<td>–</td>
<td>74504-50</td>
<td>T64E-6AB-P1N</td>
<td>Y64A-6AA-N1N</td>
<td>Y64A-6AA-N2N</td>
</tr>
</tbody>
</table>

F68G 1/2

| 18-001-979 | –           | T64E-4AB-B2N       | Y64A-4AN-N1N | Y64A-4AN-N2N | Element 5 µm (1 quart bowl) 5311-01 |
| 1/2         |             |                    |             |             |                        |
| 3/4         | 18-001-979  | –                   | T64E-6AB-B2N | Y64A-6AN-N1N | Y64A-6AN-N2N            |
| 1-1/4       | 18-001-978  | –                   | T64E-AAB-B2N | Y64A-AAN-N1N | Y64A-AAN-N2N            |
| 1-1/2       | –           | –                   | T68E-6AB-B2N | Y68A-6AN-N1N | Y68A-6AN-N2N            |

F68 1/2

| 18-001-979 | –           | T68E-6AB-B2N       | Y68A-6AN-N1N | Y68A-6AN-N2N | Element 5 µm (1 quart bowl) 5311-01 |
| 1/2         |             |                    |             |             |                        |
| 1-1/2       | –           | –                   | T68E-8AB-B2N | Y68A-8AN-N1N | Y68A-8AN-N2N            |

**Note:**
- *6.18" (157 mm) for 3/4" models*
- †Minimum clearance required to remove bowl.

### Typical Performance Characteristics

#### F64G

- **FLOW CHARACTERISTICS**
  - Inlet Pressure: 1/2" element
  - Air Flow: 0 - 200 dm³/s
  - Pressure Drop: 0 - 15 bar

#### F68G

- **FLOW CHARACTERISTICS**
  - Inlet Pressure: 1/2" element
  - Air Flow: 0 - 200 dm³/s
  - Pressure Drop: 0 - 15 bar

**Note:**
- *6.18" (157 mm) for 3/4" models*
- †Minimum clearance required to remove bowl.
Olympian Plus Oil Removal (coalescing) Filter
F64C/H, F68C/H

Olympian Plus plug in design
High efficiency oil and particle removal
Quick release bayonet bowl
High visibility prismatic sight glass
Coalescing element service indicator
Install a pre-filter with a 5 µm filter element upstream of the filter for optimum coalescing element life.

Technical data
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.
Maximum pressure:
250 psig (17 bar)
Guarded transparent bowl:
150 psig (10 bar)
Operating temperature*:
0° to +150°F (-20° to +65°C)
Guarded transparent bowl:
-30° to 125°F (-34° to 50°C)
* Air supply must be dry enough to avoid ice formation at temperatures below +35°F (+2°C).

Materials
Body: Aluminum
Yoke: Aluminum
Bowl: Aluminum
Liquid level indicator: Pyrex
Element: Synthetic fiber and polyurethane foam
Elastomers: Nitrile
Service life indicator:
Body: Transparent nylon
Internal parts: Acetal
Spring: Stainless steel
Elastomers Nitrile

Options selector (F64C/H)

Options selector (F68C/H)

Ordering Information
Models listed are with PTF threads, metal bowl with sight glass, service indicator, and automatic drain.

Port Size | Model | Maximum Flow* scfm (dm³/hr) | Weight lb (kg)
---|---|---|---
1/4” | F64C-2AD-A00 | 34 (16) | 3.26 (1.48)
1/2” | F64H-4AD-A00 | 60 (28) | 3.88 (1.71)
3/4” | F64H-6AD-A00 | 60 (28) | 4.43 (2.01)
1/2 (Standard flow, short element) | F68C-4AD-A00 | 1/2” ports: 74 (35) | 5.19 (2.36)
3/4 (High flow, long element) | F68H-6AD-A00 | 3/4” ports: 74 (35) | 5.85 (2.66)
1 (High flow, long element) | F68H-8AD-A00 | 1” ports: 127 (60) | 5.72 (2.60)

* Maximum flow at 90 psig to maintain stated oil removal performance.
Olympian Plus Oil Removal (Coalescing) Filter

F64C/H, F68C/H

Dimensions in inches (mm)

Accessories

<table>
<thead>
<tr>
<th>F64C/F64H</th>
<th>Bracket kit</th>
<th>Bracket kit</th>
<th>3/2 Shut-off valve</th>
<th>Single Yoke</th>
<th>Double Yoke</th>
<th>Elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>T64E-2AB-P1N</td>
<td>T64E-2AB-P1N</td>
<td>Y64A-2AA-N1N</td>
<td>Y64A-2AA-N2N</td>
<td>F64G (pre-filter) 5 µm 4338-01</td>
<td></td>
</tr>
<tr>
<td>3/8</td>
<td>T64E-3AB-P1N</td>
<td>T64E-3AB-P1N</td>
<td>Y64A-3AA-N1N</td>
<td>Y64A-3AA-N2N</td>
<td>F64C Coalescing 4344-01</td>
<td></td>
</tr>
<tr>
<td>1/2</td>
<td>T64E-4AB-P1N</td>
<td>T64E-4AB-P1N</td>
<td>Y64A-4AA-N1N</td>
<td>Y64A-4AA-N2N</td>
<td>F64H Coalescing 4344-02</td>
<td></td>
</tr>
<tr>
<td>3/4</td>
<td>T64E-6AB-P1N</td>
<td>T64E-6AB-P1N</td>
<td>Y64A-6AA-N1N</td>
<td>Y64A-6AA-N2N</td>
<td>Standard flow (F68C) 5351-08</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>T68E-8AB-B2N</td>
<td>T68E-8AB-B2N</td>
<td>Y68A-8AA-N1N</td>
<td>Y68A-8AA-N2N</td>
<td>High flow (F68H) 5351-03</td>
<td></td>
</tr>
</tbody>
</table>

F64C/H

F68C/H

<table>
<thead>
<tr>
<th>F68C/F68H</th>
<th>Bracket kit</th>
<th>Bracket kit</th>
<th>3/2 Shut-off valve</th>
<th>Single Yoke</th>
<th>Double Yoke</th>
<th>Elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>T68E-4AB-B2N</td>
<td>T68E-4AB-B2N</td>
<td>Y68A-4AA-N1N</td>
<td>Y68A-4AA-N2N</td>
<td>Standard flow (F68C) 5351-08</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>T68E-8AB-B2N</td>
<td>T68E-8AB-B2N</td>
<td>Y68A-8AA-N1N</td>
<td>Y68A-8AA-N2N</td>
<td>Standard flow (F68C) 5351-08</td>
<td></td>
</tr>
</tbody>
</table>

F68C/H

<table>
<thead>
<tr>
<th>F68C/H</th>
<th>Elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>T68E-4AB-B2N</td>
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<tr>
<td>3/4</td>
<td>T68E-6AB-B2N</td>
</tr>
<tr>
<td>1</td>
<td>T68E-8AB-B2N</td>
</tr>
</tbody>
</table>

For optional electrical service life indicator, add 0.02" (5 mm). * Dimension also applies to closed bottom bowl.
† Minimum clearance required to remove unit.
†† Minimum clearance required to remove unit.

Flow Characteristics

Port Size: 1/4" Dry Element

Air Flow

Pressure Drop

For additional information, visit Norgren.com/usa.
Olympian Plus Oil Vapor Removal Filter  
**F64B/L, F68V/Y**

**Olympian Plus plug in system**  
Adsorbing type activated carbon element removes oil vapors and most hydrocarbon odors.  
Long service life of filter element.  
Minimum life of 400 hours when the required oil removal filter is installed upstream and the filtration temperature is between 70° to 80°F (20° to 26°C).  
Oil and dirt contamination in outlet air within ISO 8573-1: Quality Class 1.7.1. F68 V/Y inlet air must be prefiltred with an F68G and F68 C/H

**Technical data**

**Fluid:**  
Compressed air, neutral gases  
NOTE: Contact Norgren for use with other media.

**Maximum pressure:**  
250 psig (17 bar)  
Guarded transparent bowl: 150 psig (10 bar)

**Operating temperature**:  
0° to +150°F (-20° to +65°C)  
Guarded transparent bowl: -30° to 125°F (-34° to 50°C)  
* Air supply must be dry enough to avoid ice formation at temperatures below +35°F (+2°C).

**Maximum remaining oil content:**  
0.01 mg/m³ at +70°F (+20°C) with an inlet concentration of 17 mg/m³.

**Materials**

Body: F64 - Zinc, F68-Aluminum  
Yoke: F64 - Zinc, F68-Aluminum  
Bowl: F64 - Zinc, F68-Aluminum  
Elastomers: Nitrile

**Service Kits:**  
F64 B/L 4380-21  
F68V/Y 4380-302

---

**Ordering Information**

Models listed are with PTF threads, and metal bowl.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Maximum flow*</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>F64B-2AN-AR0</td>
<td>15.0 (7.0)</td>
<td>4.07 (1.83)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>F64L-4AN-AR0</td>
<td>23.3 (11.0)</td>
<td>5.56 (2.50)</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>F64L-6AN-AR0</td>
<td>23.3 (11.0)</td>
<td>6.40 (2.88)</td>
</tr>
<tr>
<td>Standard flow (short element)</td>
<td>F68V-4AN-EMA</td>
<td>53 (25)</td>
<td>5.13 (2.33)</td>
</tr>
<tr>
<td>High flow (long element)</td>
<td>F68Y-6AN-EMA</td>
<td>127 (60)</td>
<td>5.70 (2.59)</td>
</tr>
</tbody>
</table>

*Maximum flow at 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance.

**Options selector (F64B/L)**

<table>
<thead>
<tr>
<th>Body size</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard flow</td>
<td>B</td>
</tr>
<tr>
<td>High flow</td>
<td>L</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Port size</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
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<tr>
<td>3/8&quot;</td>
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<tr>
<td>1/2&quot;</td>
<td>4</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Threads</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTF</td>
<td>A</td>
</tr>
<tr>
<td>ISO G parallel</td>
<td>G</td>
</tr>
<tr>
<td>None</td>
<td>N</td>
</tr>
</tbody>
</table>

**Options selector (F68V/Y)**

<table>
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<tr>
<th>Body size</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard flow</td>
<td>V</td>
</tr>
<tr>
<td>High flow</td>
<td>Y</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Port size</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>4</td>
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<tr>
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<tr>
<td>1&quot;</td>
<td>8</td>
</tr>
<tr>
<td>None</td>
<td>N</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Threads</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTF</td>
<td>A</td>
</tr>
<tr>
<td>ISO G parallel</td>
<td>G</td>
</tr>
<tr>
<td>None</td>
<td>N</td>
</tr>
</tbody>
</table>

---

**ISO Symbols**

- **Auto Drain**
- **Manual Drain**

---

*Maximum flow at 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance.*

---

**Notes:**  
* Only available with F68V  
** Only available with F68Y
Olympian Plus Oil Vapor Removal Filter

F64C/H, F68V/Y

Accessories

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Bracket kit</th>
<th>Bracket kit</th>
<th>3/2 Shut-off valve</th>
<th>Single Yoke</th>
<th>Double Yoke</th>
<th>Replacement Elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>F64B/F64L</td>
<td>1/4</td>
<td>74504-50</td>
<td>T64E-2AB-P1N</td>
<td>Y64A-2AA-N1N</td>
<td>Y64A-2AA-N2N</td>
<td>F64G (pre-filter) 5 µm</td>
</tr>
<tr>
<td></td>
<td>3/8</td>
<td>74504-50</td>
<td>T64E-3AB-P1N</td>
<td>Y64A-3AA-N1N</td>
<td>Y64A-3AA-N2N</td>
<td>F64B Coalescing 5350-99</td>
</tr>
<tr>
<td></td>
<td>1/2</td>
<td>74504-50</td>
<td>T64E-4AB-P1N</td>
<td>Y64A-4AA-N1N</td>
<td>Y64A-4AA-N2N</td>
<td>F64L Coalescing 5350-98</td>
</tr>
<tr>
<td></td>
<td>3/4</td>
<td>74504-50</td>
<td>T64E-6AB-P1N</td>
<td>Y64A-6AA-N1N</td>
<td>Y64A-6AA-N2N</td>
<td>Integral pre-filter (F64B/L) 3698-02</td>
</tr>
<tr>
<td>F68V/Y</td>
<td>1/2</td>
<td>18-001-979</td>
<td>T68E-4AB-B2N</td>
<td>Y68A-4AN-N1N</td>
<td>Y68A-4AN-N2N</td>
<td>Standard Flow (F68V) 66S-72</td>
</tr>
<tr>
<td></td>
<td>3/4</td>
<td>18-001-979</td>
<td>T68E-6AB-B2N</td>
<td>Y68A-6AN-N1N</td>
<td>Y68A-6AN-N2N</td>
<td>High Flow (F68Y) 66S-70</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>18-001-979</td>
<td>T68E-8AB-B2N</td>
<td>Y68A-8AN-N1N</td>
<td>Y68A-8AN-N2N</td>
<td></td>
</tr>
</tbody>
</table>

Dimensions in inches (mm)

F68V/Y

1 Pint US (0.5 Liter) Bowl

1 Quart US (1 Liter) Bowl

† Minimum clearance required to remove bowl.

Mounting bracket (F64B/L)

Mounting bracket (F68V/Y)

*Automatic drain shown. Subtract 0.3" (7 mm) for manual drain.
†Minimum clearance required to remove bowl.
** 6.18 (157 mm) for models with 3/4" ports.
Olympian Plus Filter/Regulators

B64G, B68E/G

Olympian Plus plug in system
Effective liquid removal and particulate filtration
Large filter element area provides minimum pressure drop
High flow unit with large valve and diaphragm
Push to lock adjusting knob with tamper resistant option

Technical data
Fluid:
Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

B64G
Maximum pressure
Guarded transparent bowl: 150 psig (10 bar)
Metal bowl: 250 psig (17 bar)
Operating temperature:
Guarded transparent bowl: -30°F to 125°F (-34°C to 50°C)
Metal bowl: -30°F to 175°F (-34°C to 80°C)

B68E/G
Maximum pressure: 250 psig (17 bar)
Operating temperature:
0°F to +175°F (-20°C to +80°C)

Particle removal:
5, or 40 µm. Within ISO 8573-1, class 3 and Class 5

Materials
B64G
Body: Zinc
Yoke: Zinc
Metal bowl: Aluminum
Standard metal bowl prismatic liquid level indicator lens: Grilamid
Optional metal bowl sight glass: Pyrex
Optional transparent bowl: Polycarbonate
Element: Sintered polypropylene
Elastomers: Nitrile

B68E/G
Body: Aluminum
Yoke: Aluminum
Metal bowl: Aluminum
Standard metal bowl prismatic liquid level indicator lens: Grilamid
Optional metal bowl sight glass: Pyrex
Optional transparent bowl: Polycarbonate
Element: Sintered bronze or polypropylene
Elastomers: Nitrile

Ordering Information
Models listed are with PTF threads, metal bowl with automatic drain, and 40 µm element.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Flow</th>
<th>Weight lb (kg)</th>
<th>Replacement elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>B64G-4AK-A03-RMG</td>
<td>225 (106)</td>
<td>3.69 (1.66)</td>
<td>4338-01 5 µm</td>
</tr>
<tr>
<td>1&quot;</td>
<td>B68E-4AK-A03-RLN</td>
<td>440 (215)</td>
<td>6.20 (2.82)</td>
<td>4338-02 40 µm</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>B68E-4AK-A03-RLN</td>
<td>440 (215)</td>
<td>6.42 (2.92)</td>
<td>1qt 5 µm 5511-01</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>B68E-8AK-A03-RLN</td>
<td>440 (215)</td>
<td>6.07 (2.76)</td>
<td>1qt 40 µm 5511-03</td>
</tr>
</tbody>
</table>

Options selector

B64G-˙˙˙ -˙˙˙ -R˙˙

B68E-G-˙˙˙ -U˙ -R˙˙

ISO Symbols
Automatic Drain Relieving
Manual Drain Relieving

† Only available with B68E
* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.
** Units with 250 psig (17 bar) adjustment range are available only with the T-bar adjustment; therefore substitute T at the 7th digit and S at the 12th position.

Bowl/Element Type

<table>
<thead>
<tr>
<th>Bowl/Element Type</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 quart (1 liter) bowl w/long element</td>
<td>E</td>
</tr>
<tr>
<td>1 pint (0.5 liter) bowl w/short element</td>
<td>G</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;</td>
<td>6</td>
</tr>
<tr>
<td>1&quot;</td>
<td>8</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>A</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>B</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Threads</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTF</td>
<td>A</td>
</tr>
<tr>
<td>ISO G parallel</td>
<td>G</td>
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<table>
<thead>
<tr>
<th>Adjustment</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knob</td>
<td>K</td>
</tr>
<tr>
<td>T-bar</td>
<td>T</td>
</tr>
<tr>
<td>Drain</td>
<td></td>
</tr>
<tr>
<td>Manual, 1/4 turn</td>
<td>Q</td>
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</table>

Gauge

<table>
<thead>
<tr>
<th>Gauge</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>With</td>
<td>G</td>
</tr>
<tr>
<td>Without</td>
<td>N</td>
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</table>

Outlet Pressure

<table>
<thead>
<tr>
<th>Outlet Pressure</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 to 60 psig (0.3 to 4 bar)</td>
<td>F</td>
</tr>
<tr>
<td>5 to 150 psig (0.3 to 10 bar)</td>
<td>M</td>
</tr>
<tr>
<td>10 to 250 psig (0.7 to 17 bar)</td>
<td>S**</td>
</tr>
</tbody>
</table>

Element

<table>
<thead>
<tr>
<th>Element</th>
<th>Substitute</th>
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<tbody>
<tr>
<td>5 µm</td>
<td>1</td>
</tr>
<tr>
<td>40 µm</td>
<td>3</td>
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Bowl

<table>
<thead>
<tr>
<th>Bowl</th>
<th>Substitute</th>
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</thead>
<tbody>
<tr>
<td>Metal with liquid level indicator</td>
<td>D</td>
</tr>
<tr>
<td>Guarded Transparent</td>
<td>P</td>
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Gauge

<table>
<thead>
<tr>
<th>Outlet Pressure</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 60 psig (0.3 to 4 bar)</td>
<td>F</td>
</tr>
<tr>
<td>5 to 120 psig (0.4 to 8 bar)</td>
<td>L</td>
</tr>
<tr>
<td>10 to 250 psig (0.7 to 17 bar)</td>
<td>S***</td>
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Element

<table>
<thead>
<tr>
<th>Element</th>
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<tbody>
<tr>
<td>5 µm</td>
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</tr>
<tr>
<td>40 µm</td>
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Bowl

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<tr>
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<tr>
<td>Automatic Drain Relieving</td>
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</tr>
<tr>
<td>Manual Drain Relieving</td>
<td></td>
</tr>
</tbody>
</table>

* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.
** Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) drop from set.
*** Units with 250 psig (17 bar) adjustment range are available only with the T-bar adjustment; therefore substitute T at the 7th digit and S at the 12th position.

Technical data
Fluid:
Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.
### Accessories

<table>
<thead>
<tr>
<th>Bracket kit</th>
<th>Gauge</th>
<th>3/2 Shut-off valve*</th>
<th>Single yoke</th>
<th>Double yoke</th>
<th>Tamper resistant kit</th>
<th>Service Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>B64G</td>
<td>74504-50</td>
<td>0 to 160 psig</td>
<td>Y64A-2AN-N1N</td>
<td>Y64A-2AN-N2N</td>
<td>4355-50</td>
<td>Relieving 4383-200</td>
</tr>
<tr>
<td>B68E/G</td>
<td>18-013-204</td>
<td>T64E-2AB-P1N – G 1/4</td>
<td>Y64A-3AN-N1N</td>
<td>Y64A-3AN-N2N</td>
<td>4355-50</td>
<td>Non-relieving 4383-201</td>
</tr>
<tr>
<td></td>
<td>T64E-2AB-P1N – G 3/4</td>
<td>Y64A-4AN-N1N</td>
<td>Y64A-4AN-N2N</td>
<td>4355-50</td>
<td>Non-relieving 4383-300</td>
<td></td>
</tr>
<tr>
<td></td>
<td>T64E-2AB-P1N – G 1/2</td>
<td>Y64A-4AN-N1N</td>
<td>Y64A-4AN-N2N</td>
<td>4355-50</td>
<td>Non-relieving 4383-3201</td>
<td></td>
</tr>
</tbody>
</table>

Accessories *B64G, B68E/G

---

**MOUNTING BRACKET (B64G)**

- B64G: 3.41 (87) x 1.29 (33) x 2.83 (72)
- B64G: 3.41 (87) x 1.29 (33) x 2.83 (72)

**MOUNTING BRACKET (B68G)**

- B68G: 3.41 (87) x 1.29 (33) x 2.83 (72)

---

**Typical Performance Characteristics**

**FLOW CHARACTERISTICS**

- **B64G**
- **B68E/G**

---

**Dimensions in inches (mm)**

- B64G, B68E/G

---

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---

**Olympian Plus Filter/Regulators**

**B64G, B68E/G**

**Dimensions in inches (mm)**

---

**AIR LINE EQUIPMENT**

---

**ALE-47**
Olympian Plus Regulators

R64G/R, R68G

Olympian Plus plug in design
High flow general purpose regulator
Push to lock adjusting knob with tamper resistant option
Mount in any orientation

Technical data

R64G/R
Maximum pressure: 250 psig (17 bar)
Typical flow at 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set: 254 scfm (120 dm³/s)
Operating temperature*: -30° to 175°F (-34° to 80°C)

R68G
Maximum pressure: 300 psig (20 bar)
Typical flow at 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set (68): 370 scfm (170 dm³/s)
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).

Materials

R64G/R
Body: Zinc
Bonnet: Aluminum
Yoke: Zinc
Elastomers: Nitrile

R68G
Body: Aluminum
Yoke: Aluminum
Bonnet: Aluminum
Adjusting knob: Acetal resin
Valve: Aluminum
Optional T-bar adjusting screw: Steel
Elastomers: Nitrile

Ordering Information

Models listed are with PTF threads, knob adjustment, relieving type, with gauge (not shown).

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Flow Rate scfm (dm³/s)</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>R64G-4AK-RMG</td>
<td>254 (120)</td>
<td>3.31 (1.49)</td>
</tr>
<tr>
<td>1&quot;</td>
<td>R68G-BAG-RLG</td>
<td>360 (170)</td>
<td>4.16 (1.89)</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>R68G-AAK-RLG</td>
<td>360 (170)</td>
<td>4.24 (1.93)</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>R68G-BAK-RLG</td>
<td>360 (170)</td>
<td>4.33 (1.97)</td>
</tr>
</tbody>
</table>

† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.

Options selector (R64G)

<table>
<thead>
<tr>
<th>Flow Type</th>
<th>Substitute</th>
<th>Port Size</th>
<th>Substitute</th>
<th>Threads</th>
<th>Substitute</th>
<th>Adjustment</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>G</td>
<td>1/4&quot;</td>
<td>2</td>
<td>PTF</td>
<td>A</td>
<td>Knob</td>
<td>K</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3/8&quot;</td>
<td>3</td>
<td></td>
<td></td>
<td>T-bar</td>
<td>T</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/2&quot;</td>
<td>4</td>
<td>ISO G parallel</td>
<td>G</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3/4&quot;</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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Options selector (R68G)

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Substitute</th>
<th>Port Size</th>
<th>Substitute</th>
<th>Threads</th>
<th>Substitute</th>
<th>Adjustment</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;</td>
<td>6</td>
<td>1&quot;</td>
<td>8</td>
<td>PTF</td>
<td>A</td>
<td>Knob</td>
<td>K</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-1/4&quot;</td>
<td>A</td>
<td></td>
<td></td>
<td>T-bar</td>
<td>T</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-1/2&quot;</td>
<td>B</td>
<td>ISO G parallel</td>
<td>G</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>None</td>
<td>N</td>
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</tr>
</tbody>
</table>

Outlet pressure adjustment range* Substitute

5 to 60 psig (0.3 to 4 bar) F
5 to 150 psig (0.3 to 10 bar) M
10 to 250 psig (0.7 to 17 bar) S

* Can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

Units with 250 psig outlet pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th digit and S at the 9th position.
Olympian Plus Regulators

R64G/R, R68G

Accessories

<table>
<thead>
<tr>
<th></th>
<th>Bracket kit</th>
<th>Bracket kit</th>
<th>Gauge</th>
<th>3/2 Shut-off valve</th>
<th>Single yoke</th>
<th>Double yoke</th>
<th>Panel nut</th>
<th>Tamper resistant kit</th>
<th>Service Kits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/8</td>
<td>–</td>
<td>–</td>
<td>74504-50</td>
<td>18-013-204</td>
<td>T64E-3AB-P1N</td>
<td>Y64A-3A-N1N</td>
<td>Y64A-3A-N2N</td>
<td>4348-89</td>
<td>4355-50</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2</td>
<td>–</td>
<td>–</td>
<td>74504-50</td>
<td>18-013-204</td>
<td>T64E-4AB-P1N</td>
<td>Y64A-4A-N1N</td>
<td>Y64A-4A-N2N</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>1-1/2</td>
<td>18-013-204</td>
<td>T68E-8AB-B2N</td>
<td>Y68A-8A-N1N</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For additional pressures and options see our website.

R64G/R

4.13 (105)**

R68G

7.48 (190)**

Typical Performance Characteristics

** For additional pressures and options see our website.

* Reduces by 4 mm with knob in locked position. Add 37 mm for unit with ‘T’ handle.

** 6.18” (157 mm) for models with 3/4” ports

Panel mounting hole diameter: 2.06” (52 mm)

Maximum panel thickness: 0.25” (6 mm)

Norgren.com/usa – 303.794.2611 – help@amer.norgren.com
Olympian Plus Lubricators
L64M/C, L68M/C

Olympian Plus plug in design
High flow general purpose regulator
Push to lock adjusting knob with tamper resistant option
Mount in any orientation

Technical data
L64M/C
Maximum pressure:
250 psig (17 bar)
Guarded transparent bowl: 150 psig (10 bar)
Operating temperature*:
-30° to 175°F (-34° to 80°C)
Guarded transparent bowl: 0° to 125°F (-20° to 50°C)

L68M/C
Maximum pressure:
250 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).

Materials:
L64M/C
Body: Zinc
Bowl: Aluminum
Yoke: Zinc
Elastomers: Nitrile

L68M/C
Body: Aluminum
Bowl: Aluminum
Yoke: Aluminum
Adjusting knob: Acetal resin
Elastomers: Nitrile

Ordering Information
Models listed include yoke with PTF threads, manual drain, and metal bowl with liquid level indicator.

<table>
<thead>
<tr>
<th>Type</th>
<th>Port Size</th>
<th>Model</th>
<th>Flow scfm (dm3/s)</th>
<th>Weight lb (kg)</th>
<th>Service Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Micro-Fog</td>
<td>1/4&quot;</td>
<td>L64M-4AP-QDN</td>
<td>153 (72)</td>
<td>3.02 (1.37)</td>
<td>4382-200</td>
</tr>
<tr>
<td></td>
<td>1&quot;</td>
<td>L64M-8AP-QUN</td>
<td>242 (120)</td>
<td>4.49 (2.04)</td>
<td>4382-301*</td>
</tr>
<tr>
<td></td>
<td>1-1/4&quot;</td>
<td>L68M-8AP-QUN</td>
<td>242 (120)</td>
<td>4.59 (2.08)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-1/2&quot;</td>
<td>L68M-12AP-QUN</td>
<td>242 (120)</td>
<td>4.67 (2.12)</td>
<td></td>
</tr>
</tbody>
</table>

* For Micro-fog only. For oil-fog order 4382-300

Options selector (L64)

<table>
<thead>
<tr>
<th>Type</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil-fog</td>
<td>C</td>
</tr>
<tr>
<td>Micro-fog</td>
<td>M</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Port size</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>2</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>3</td>
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<tr>
<td>1/2&quot;</td>
<td>4</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>6</td>
</tr>
<tr>
<td>No yoke</td>
<td>N</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Threads</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTF</td>
<td>A</td>
</tr>
<tr>
<td>ISO G parallel</td>
<td>G</td>
</tr>
<tr>
<td>No yoke</td>
<td>N</td>
</tr>
</tbody>
</table>

Options selector (L68)

<table>
<thead>
<tr>
<th>Type</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil-fog</td>
<td>C</td>
</tr>
<tr>
<td>Micro-fog</td>
<td>M</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Port size</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;</td>
<td>6</td>
</tr>
<tr>
<td>1&quot;</td>
<td>8</td>
</tr>
<tr>
<td>1 1/4&quot;</td>
<td>A</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>B</td>
</tr>
<tr>
<td>No yoke</td>
<td>N</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Threads</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTF</td>
<td>A</td>
</tr>
<tr>
<td>ISO G parallel</td>
<td>G</td>
</tr>
<tr>
<td>No yoke</td>
<td>N</td>
</tr>
</tbody>
</table>
Olympian Plus Lubricators

L64M/C, L68M/C
Dimensions in inches (mm)

Accessories

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Bracket kit</th>
<th>Bracket kit</th>
<th>3/2 Shut-off valve</th>
<th>Single yoke</th>
<th>Double yoke</th>
<th>Tamper resistant wire</th>
<th>Quick fill adapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>L64</td>
<td>1/4&quot;</td>
<td>–</td>
<td>74504-50</td>
<td>Y64A-2AA-N1N</td>
<td>Y64A-2AA-N2N</td>
<td>2117-01</td>
<td>18-011-024</td>
</tr>
<tr>
<td></td>
<td>3/8&quot;</td>
<td>74504-50</td>
<td>74504-52&quot;</td>
<td>T64E-2AB-P1N</td>
<td>Y64A-3AA-N1N</td>
<td>Y64A-3AA-N2N</td>
<td>2117-01</td>
</tr>
<tr>
<td></td>
<td>1/2&quot;</td>
<td>74504-50</td>
<td>74504-52&quot;</td>
<td>T64E-4AB-P1N</td>
<td>Y64A-4AA-N1N</td>
<td>Y64A-4AA-N2N</td>
<td>2117-01</td>
</tr>
<tr>
<td></td>
<td>3/4&quot;</td>
<td>74504-50</td>
<td>74504-52&quot;</td>
<td>T64E-6AB-P1N</td>
<td>Y64A-6AA-N1N</td>
<td>Y64A-6AA-N2N</td>
<td>2117-01</td>
</tr>
<tr>
<td></td>
<td>1&quot;</td>
<td>18-001-979</td>
<td>74504-50</td>
<td>T68E-6AB-B2N</td>
<td>Y68A-8AN-N1N</td>
<td>Y68A-8AN-N2N</td>
<td>2117-01</td>
</tr>
<tr>
<td></td>
<td>1-1/4&quot;</td>
<td>18-001-978</td>
<td>74504-50</td>
<td>T68E-8AB-S2N</td>
<td>Y68A-8AN-N1N</td>
<td>Y68A-8AN-N2N</td>
<td>2117-01</td>
</tr>
<tr>
<td></td>
<td>1-1/2&quot;</td>
<td>74504-50</td>
<td>74504-52&quot;</td>
<td>T68E-8AB-S2N</td>
<td>Y68A-10AN-N1N</td>
<td>Y68A-10AN-N2N</td>
<td>2117-01</td>
</tr>
</tbody>
</table>

** To fit 1 liter bowl version.
† Minimum clearance required to remove unit.

Optional 1 quart US (1 liter) bowl

L64

1 Quart US (1 Liter) Bowl

** Add 0.39" (10 mm) for 1-1/4" and 1-1/2"models.
† Minimum clearance required to remove bowl.

Mounting bracket (L64)

** Add 0.39" (10 mm) for models with 3/4" ports.

Typical Performance Characteristics

L64

Typical Performance Characteristics

L68

Technical Specifications

Norgren.com/usa – 303.794.2611 – help@amer.norgren.com
Olympian Plus Pressure Relief Valves
V64H, V68H

Olympian plug in system
Helps protect compressed air systems from over pressure by retarding excessive pressure build up
Integral pilot design provides superior sensitivity, accuracy, and quick response to over pressure conditions
High relief flow
Threaded relief port for silencer or piped exhaust

Technical data
V64H
Maximum pressure : 250 psig (17 bar)
Operating temperature*: -30° to 175°F (-34° to 80°C)

V68H
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).

Materials
V64H
Body: Zinc
Bonnet: Aluminum
Adjusting screw: steel
Yoke: Zinc
Elastomers: Nitrile

V68H
Body: Aluminum
Yoke: Aluminum
Adjusting screw: steel
Valve: Aluminum
Optional T-bar adjusting screw: Steel
Elastomers: Nitrile

Ordering Information
Models listed include PTF threads, no gauge.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Weight lb (kg)</th>
<th>Service kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>V64H-4AD-RMN</td>
<td>3.62 (1.63)</td>
<td>4384-200</td>
</tr>
<tr>
<td>1&quot;</td>
<td>V64H-8AD-RMN</td>
<td>4.89 (2.20)</td>
<td>4384-300 (all models)</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>V64H-16AD-RMN</td>
<td>4.93 (2.22)</td>
<td></td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>V68H-9AD-RMN</td>
<td>5.02 (2.26)</td>
<td></td>
</tr>
</tbody>
</table>

Options selector (V64H)

<table>
<thead>
<tr>
<th>Port size</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>2</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>3</td>
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<tr>
<td>1/2&quot;</td>
<td>4</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>6</td>
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</tbody>
</table>

Options selector (V68H)

<table>
<thead>
<tr>
<th>Port size</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
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<tr>
<td>1&quot;</td>
<td>8</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>A</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>B</td>
</tr>
</tbody>
</table>

**V64H 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

V64H Exhaust port:
1/2" PTF with PTF main ports
1/2" ISO Rc with ISO Rc main ports
1/2" ISO Rc with ISO G main ports

**V68H Gauge ports:
1/8 PTF with PTF yoke ports
Rc1/8 with ISO Rc yoke ports
Rc1/8 with ISO G yoke ports

V68H Exhaust port:
1" PTF with PTF yoke ports
Rc1 with ISO Rc yoke ports
Rc1 with ISO G yoke ports

*Relief valve can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.
# Olympian Plus Pressure Relief Valves

## V64H, V68H

Dimensions in inches (mm)

### Accessories

<table>
<thead>
<tr>
<th>Size</th>
<th>Bracket kit</th>
<th>Gauge 0 … 160 psig</th>
<th>Silencer</th>
<th>Tamper resistant cap</th>
<th>3/2 Shut-off valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>V64H</td>
<td>1/4”</td>
<td>74504-50</td>
<td>18-013-204</td>
<td>MB004A</td>
<td>1581-90</td>
</tr>
<tr>
<td></td>
<td>3/8”</td>
<td>74504-50</td>
<td>18-013-204</td>
<td>MB004A</td>
<td>1581-90</td>
</tr>
<tr>
<td></td>
<td>1/2”</td>
<td>74504-50</td>
<td>18-013-204</td>
<td>MB004A</td>
<td>1581-90</td>
</tr>
<tr>
<td>V68H</td>
<td>3/4”</td>
<td>18-001-979</td>
<td>18-013-204</td>
<td>MB008A</td>
<td>1581-90</td>
</tr>
<tr>
<td></td>
<td>1”</td>
<td>18-001-979</td>
<td>18-013-204</td>
<td>MB008A</td>
<td>1581-90</td>
</tr>
<tr>
<td></td>
<td>1-1/4”</td>
<td>18-001-978</td>
<td>18-013-204</td>
<td>MB008A</td>
<td>1581-90</td>
</tr>
<tr>
<td></td>
<td>1-1/2”</td>
<td>–</td>
<td>18-013-204</td>
<td>MB008A</td>
<td>1581-90</td>
</tr>
</tbody>
</table>

For additional options see website.

### Typical Performance Characteristics

#### V64H

**Relief Characteristics**

<table>
<thead>
<tr>
<th>AIR FLOW (s/m)</th>
<th>RELIEF CHARACTERISTICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>50</td>
<td>500</td>
</tr>
<tr>
<td>100</td>
<td>1000</td>
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<tr>
<td>150</td>
<td>1500</td>
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<tr>
<td>200</td>
<td>2000</td>
</tr>
<tr>
<td>250</td>
<td>2500</td>
</tr>
</tbody>
</table>

**Flow Characteristics**

<table>
<thead>
<tr>
<th>AIR FLOW (s/m)</th>
<th>FLOW CHARACTERISTICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>100</td>
<td>100</td>
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<tr>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>250</td>
<td>250</td>
</tr>
</tbody>
</table>

#### V68H

**Relief Characteristics**

<table>
<thead>
<tr>
<th>AIR FLOW (s/m)</th>
<th>RELIEF CHARACTERISTICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>50</td>
<td>500</td>
</tr>
<tr>
<td>100</td>
<td>1000</td>
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<tr>
<td>150</td>
<td>1500</td>
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<tr>
<td>200</td>
<td>2000</td>
</tr>
<tr>
<td>250</td>
<td>2500</td>
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</tbody>
</table>

**Flow Characteristics**

<table>
<thead>
<tr>
<th>AIR FLOW (s/m)</th>
<th>FLOW CHARACTERISTICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>100</td>
<td>100</td>
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<tr>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>250</td>
<td>250</td>
</tr>
</tbody>
</table>

**Accessories**

- **Size**
- **Bracket kit**
- **Bracket kit**
- **Gauge 0 … 160 psig**
- **Silencer**
- **Tamper resistant cap**
- **3/2 Shut-off valve**

For additional options see website.

V64H

- 1/4” 74504-50 18-013-204 MB004A 1581-90 T64E-2AB-P1N
- 3/8” 74504-50 18-013-204 MB004A 1581-90 T64E-3AB-P1N
- 1/2” 74504-50 18-013-204 MB004A 1581-90 T64E-4AB-P1N

V68H

- 3/4” 18-001-979 18-013-204 MB008A 1581-90 T68E-4AB-B2N
- 1” 18-001-979 18-013-204 MB008A 1581-90 T68E-4AB-B2N
- 1-1/4” 18-001-978 18-013-204 MB008A 1581-90 T68E-4AB-B2N
- 1-1/2” – 18-013-204 MB008A 1581-90 T68E-4AB-B2N

**Mounting bracket (V64H)**

- **Mounting bracket (V68H)**

**Typical Performance Characteristics**

- **Minimum clearance required to remove unit.**
- **Add 0.39” (10mm) 1-1/4” and 1-1/2” models.**

---

Norgren.com/usa – 303.794.2611 – help@amer.norgren.com
Olympian Plus Smooth Start/Exhaust Valves

P64F, P68F

Olympian Plus plug in design controls increase of downstream pressure on start up. Cylinders and other air operated devices are eased into normal operating positions, reducing the possibility of equipment damage and hazards to the user.

3 port/2 position, normally closed, soft start valve with optional manual lockout slide

Blocks inlet air and exhausts downstream air when pilot signal is removed or when the optional manual lockout slide is closed

Optional manual slide can be padlocked in closed position

Solenoid pilot or air pilot operation

Designed primarily for use in start-up and shutdown of equipment, not as a frequently cycling directional control valve. Norgren offers a wide variety of valves designed for frequent cycling and other applications. Please refer to the P72C and P74C valves, and to other Norgren valve catalogs.

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure solenoid operated:

Dependent on solenoid rating [must not exceed 250 psig (17 bar)]

Max. pressure pilot operated: 250 psig (17 bar) max.

Minimum operating pressure: 44 psig (3 bar)

Operating temperature solenoid operated:

Dependent on solenoid rating [must be within range 0°F to 125°F (-20°C to 50°C) (64)]

[Must be within range 0°F to 175°F (-20°C to 80°C) (68)]

Operating temp. pilot operated: 0°F to 175°F (-20°C to 80°C)

Operating temp. pilot operated: 0°F to +175°F (-20°C to 80°C)

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

Materials

P64F

Body: Zinc alloy

Intermediate body and top plate: Aluminum

Exhaust bonnet: Zinc alloy

Yoke: Zinc alloy

Elastomers: Synthetic materials

Filter discs: Sintered plastic

Internal components: Brass/steel

P68F

Body: Aluminum

Top plate: Aluminum

Bottom plate: Aluminum

Yoke: Aluminum

Elastomers: Synthetic materials

Filter discs: Sintered plastic

Internal components: Brass/steel

Ordering Information

Models listed include PTF threads.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Solenoid Operated Model</th>
<th>Weight lb (kg)</th>
<th>Air Pilot Operated Model</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>P64F-4AC-PFA</td>
<td>4.4 (2.02)</td>
<td>P64F-4AA-NNN</td>
<td>4.2 (1.91)</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>P64F-6AC-PFA</td>
<td>5.2 (2.38)</td>
<td>P64F-6AA-NNN</td>
<td>5.0 (2.27)</td>
</tr>
<tr>
<td>1&quot;</td>
<td>P68F-8AD-PFA</td>
<td>6.51 (2.93)</td>
<td>P68F-8AB-NNN</td>
<td>6.11 (2.75)</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>P68F-8AD-PFA</td>
<td>6.44 (2.90)</td>
<td>P68F-8AB-NNN</td>
<td>6.04 (2.72)</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>P68F-8AD-PFA</td>
<td>6.49 (2.92)</td>
<td>P68F-8AB-NNN</td>
<td>6.09 (2.74)</td>
</tr>
</tbody>
</table>

Options selector

<table>
<thead>
<tr>
<th>Series</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>64</td>
<td>4</td>
</tr>
<tr>
<td>68</td>
<td>8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Port size</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>2</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>3</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>4</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>B</td>
</tr>
<tr>
<td>1&quot;</td>
<td>8</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>A</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>B</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Threads</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTF</td>
<td>A</td>
</tr>
<tr>
<td>ISO G parallel</td>
<td>G</td>
</tr>
<tr>
<td>No Yoke (N in 5th position)</td>
<td>N</td>
</tr>
<tr>
<td>ISO G pilot and exhaust ports</td>
<td>A</td>
</tr>
<tr>
<td>PTF pilot and exhaust ports</td>
<td>A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operator</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air pilot</td>
<td>A</td>
</tr>
<tr>
<td>Air pilot with manual lockout</td>
<td>B</td>
</tr>
<tr>
<td>22 mm miniature solenoid</td>
<td>C</td>
</tr>
<tr>
<td>22 mm miniature solenoid with manual lockout</td>
<td>D</td>
</tr>
</tbody>
</table>

* 64 series only  ** 68 series only

Solenoid operated  Air pilot

ISO Symbol

Connectors

| Coils Substitute |
|------------------|------------------|
| 3 pin plug with cable grip, no indicator | A                |
| Without | N                |

P64F (22 mm solenoid)

<table>
<thead>
<tr>
<th>Nominal power rating</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 V d.c. 2 W</td>
<td>F</td>
</tr>
<tr>
<td>110/120 V, 50/60 Hz 4/2.5 V A</td>
<td>A</td>
</tr>
<tr>
<td>No solenoid –</td>
<td>N</td>
</tr>
</tbody>
</table>

P68F (32 mm solenoid)

<table>
<thead>
<tr>
<th>Nominal power rating</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 V d.c. 4.5 W</td>
<td>P</td>
</tr>
<tr>
<td>110/120 V, 50/60 Hz 14/10 V A</td>
<td>J</td>
</tr>
<tr>
<td>No solenoid –</td>
<td>N</td>
</tr>
<tr>
<td>No coil</td>
<td>Z</td>
</tr>
</tbody>
</table>

Solenoid manual operator

<table>
<thead>
<tr>
<th>Substitue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shrouded push button</td>
</tr>
<tr>
<td>None</td>
</tr>
</tbody>
</table>
Olympian Plus Smooth Start/Exhaust Valves

P64F, P68F

Accessories

<table>
<thead>
<tr>
<th>Size</th>
<th>Bracket kit</th>
<th>Bracket kit</th>
<th>3/2 Shut-off valve</th>
<th>Manual shut-off with lockout</th>
<th>Single yoke</th>
<th>Double yoke</th>
<th>Exhaust port silencer</th>
<th>Connector plug with cable gland</th>
</tr>
</thead>
<tbody>
<tr>
<td>P64F</td>
<td>1/4&quot; 74504-50</td>
<td>–</td>
<td>T64E-2AB-P1N</td>
<td>–</td>
<td>Y64A-2AA-N1N</td>
<td>Y64A-2AA-N2N</td>
<td>MB004A 54934-08* 10-50 V a.c./d.c. indicator type</td>
<td>MB004A 54934-01 – No indicator</td>
</tr>
<tr>
<td></td>
<td>3/8&quot; 74504-50</td>
<td>–</td>
<td>T64E-3AB-P1N</td>
<td>Factory fit option only.</td>
<td>Y64A-3AA-N1N</td>
<td>Y64A-3AA-N2N</td>
<td>MB004A 54934-02 110/120 V a.c. indicator type</td>
<td>MB004A 54934-01 – No indicator</td>
</tr>
<tr>
<td></td>
<td>1/2&quot; 74504-50</td>
<td>–</td>
<td>T64E-4AB-P1N</td>
<td>See Options selector</td>
<td>Y64A-4AA-N1N</td>
<td>Y64A-4AA-N2N</td>
<td>MB004A 54934-01 – No indicator</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>3/4&quot; 74504-50</td>
<td>–</td>
<td>T64E-6AB-P1N</td>
<td>–</td>
<td>Y64A-6AA-N1N</td>
<td>Y64A-6AA-N2N</td>
<td>MB004A 54934-01 – No indicator</td>
<td>–</td>
</tr>
<tr>
<td>P68F</td>
<td>3/4&quot; 18-001-979</td>
<td>T68E-6AB-B2N</td>
<td>Standard</td>
<td>Y68A-6AN-N1N</td>
<td>Y68A-6AN-N2N</td>
<td>MB008A 54934-08* 10-50 V a.c./d.c. indicator type</td>
<td>MB008A 54934-02 110/120 V a.c. indicator type</td>
<td>MB008A 54934-01 – No indicator</td>
</tr>
<tr>
<td></td>
<td>1&quot; 18-001-979</td>
<td>T68E-6AB-B2N</td>
<td>Standard</td>
<td>Y68A-6AN-N1N</td>
<td>Y68A-6AN-N2N</td>
<td>MB008A 54934-08* 10-50 V a.c./d.c. indicator type</td>
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<td>MB008A 54934-01 – No indicator</td>
</tr>
<tr>
<td></td>
<td>1½&quot; 18-001-979</td>
<td>T68E-6AB-B2N</td>
<td>Standard</td>
<td>Y68A-6AN-N1N</td>
<td>Y68A-6AN-N2N</td>
<td>MB008A 54934-08* 10-50 V a.c./d.c. indicator type</td>
<td>MB008A 54934-02 110/120 V a.c. indicator type</td>
<td>MB008A 54934-01 – No indicator</td>
</tr>
<tr>
<td></td>
<td>1½&quot; 18-001-979</td>
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<td>Standard</td>
<td>Y68A-6AN-N1N</td>
<td>Y68A-6AN-N2N</td>
<td>MB008A 54934-08* 10-50 V a.c./d.c. indicator type</td>
<td>MB008A 54934-02 110/120 V a.c. indicator type</td>
<td>MB008A 54934-01 – No indicator</td>
</tr>
</tbody>
</table>

* Reduced light intensity at 12 V.

** Typical Performance Characteristics **

** Solenoid operated **

** Air pilot operated **

** Solenoid operated plus manual shut-off with lockout **

** Air pilot operated plus manual shut-off with lockout **

** Minimum clearance required to remove unit. **

Norgren.com/usa – 303.794.2611 – help@amer.norgren.com
64 Series lockout valves

1/4" to 3/4" port size

Olympian Plus plug in design
Attaches to yoke, upstream or downstream of air processing units.
T64E 3-port/2-position lockout valves help conform to OSHA Lockout Regulations in USA market.

Technical data

Fluid:
Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:
250 psig (17 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).

Cv factor from IN to OUT ports
1/4 port size: 2.6
3/8 port size: 5.5
1/2 port size: 6.7
3/4 port size: 7.5

Exhaust port threads on T64T models:
1/8 PTF with PTF main ports 1/8 ISO Rc with ISO G and ISO Rc main ports

Materials
Body: Zinc
Slide: Acetal plastic
Elastomers: Nitrile

Ordering Information

Models listed include PTF threads in the pilot and exhaust ports.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>2-Port/2-Position</th>
<th>3-Port/2-Position (OSHA)</th>
<th>3-Port/2-Position</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>T64B-3AB-P1N</td>
<td>T64E-3AB-P1N</td>
<td>T64T-3AB-P1N</td>
<td>0.89 (0.40)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>T64B-3AB-P1N</td>
<td>T64E-3AB-P1N</td>
<td>T64T-3AB-P1N</td>
<td>0.88 (0.40)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>T64B-4AB-P1N</td>
<td>T64E-4AB-P1N</td>
<td>T64T-4AB-P1N</td>
<td>0.84 (0.38)</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>T64B-6AB-P1N</td>
<td>T64E-6AB-P1N</td>
<td>T64T-6AB-P1N</td>
<td>0.84 (0.38)</td>
</tr>
</tbody>
</table>

Service Kits

<table>
<thead>
<tr>
<th>Type</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>T64B (red slide)</td>
<td>4384-210</td>
</tr>
<tr>
<td>T64E (yellow slide)</td>
<td>4384-211</td>
</tr>
<tr>
<td>T64T (red slide)</td>
<td>4384-210</td>
</tr>
</tbody>
</table>

Service kit includes seals and slide.

ISO Symbols

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

** Models with 3/4" ports
All Dimensions in Inches (mm)
T68
Olympian Plus T68 Shut-off & Lockout Valves
3/4", 1", 1-1/4", 1-1/2" Port Sizes

Olympian plug in system
2-port/2-position and 3-port/2-position shut-off valves
Can be locked in open or closed position
T68E 3-port/2-position lockout valves help conform to OSHA Lockout Regulations in USA market. Exhaust outlet is not tapped.

Technical data
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.
Maximum pressure:
250 psig (17 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).

Cv factor:
IN to OUT port: □27.5
OUT to EXHAUST port: 0.16

Exhaust port threads on T68H models:
1/4

Materials:
Body: Aluminum
Handle: Zinc
Seals: Nitrile
Ball: Brass

ISO Symbols

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

Ordering Information
Models listed are with PTF threads.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Unthreaded exhaust port</th>
<th>Weight lbs (kg)</th>
<th>No exhaust port</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;</td>
<td>T68E-6AB-B2N</td>
<td>2.21 (1.00)</td>
<td>T68A-6AB-B2N</td>
<td>2.21 (1.00)</td>
</tr>
<tr>
<td>1&quot;</td>
<td>T68E-8AB-B2N</td>
<td>2.12 (0.96)</td>
<td>T68A-8AB-B2N</td>
<td>1.92 (0.87)</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>T68E-AAB-B2N</td>
<td>2.07 (0.94)</td>
<td>T68A-AAB-B2N</td>
<td>2.21 (1.00)</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>T68E-BAB-B2N</td>
<td>2.16 (0.96)</td>
<td>T68A-BAB-B2N</td>
<td>2.16 (0.98)</td>
</tr>
</tbody>
</table>

Service Kits

<table>
<thead>
<tr>
<th>Item</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service kit</td>
<td>4384-300</td>
</tr>
</tbody>
</table>

Service kit includes, valve spring, slip ring, valve assembly, diaphragm assembly and necessary seals and 'o' rings.

Dimensions in inches (mm)

Norgren.com/usa – 303.794.2611 – help@amer.norgren.com
PTH Filter/Regulator-Lubricator Combination Units

07 Series

Compact design
Filter removes liquids and solid particles down to 5 µm
Push to lock adjusting knob with tamper resistant option
Micro-Fog lubricator provides air line lubrication to one or more air driven tools or other devices
Nearly constant oil density output with varying air flow

Fluid:
Compressed air, neutral gases  
NOTE: Contact Norgren for use with other media.

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)

Typical flow at 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set:
1/8" ports: 10 scfm (5 dm3/s)
1/4" ports: 14 scfm (7 dm3/s)

Drain connection:
1/8" male pipe

Filter/Regulator
Particle removal:
5 µm or 40 µm. Within ISO 8573-1, Class 3 and Class 5
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
Automatic drain operation:
Spitter type drain operates momentarily when a rapid change in air flow occurs or when the supply pressure is reduced.

Lubricator
Start point (i.e., minimum flow required for lubricator operation): 0.5 scfm (0.24 dm3/s) at 90 psig (6.3 bar) inlet pressure
Nominal bowl capacity:
1 fluid ounce (31 ml)

Materials
Bodies: Zinc
Filter/Regulator bonnet: Acetal
Filter/Regulator valve seat: Acetal
Bowls
Transparent: Polycarbonate
Metal: Zinc
Lubricator sight-feed dome: Transparent nylon
Filter element: Sintered polypropylene
Elastomers: Nitrile

Ordering Information
Models listed include PTF threads, transparent bowls, filter/regulator with relieving diaphragm, automatic drain, 5 µm element, 5 to 100 psig (0.3 to 7 bar) outlet pressure adjustment range*, gauge, and microfog lubricator.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Number</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;</td>
<td>PTH-100-A1AA</td>
<td>0.87 (40)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>PTH-200-A1AA</td>
<td>0.87 (40)</td>
</tr>
</tbody>
</table>

* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.
Alternative Models

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;</td>
<td>1</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Outlet Pressure</th>
<th>Pressure Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter/Regulator</td>
<td>Bowl</td>
</tr>
<tr>
<td>Adjustment Range</td>
<td>bar</td>
</tr>
<tr>
<td>Type</td>
<td>psig</td>
</tr>
<tr>
<td>5 to 100</td>
<td>0.3 to 7</td>
</tr>
<tr>
<td>Transparent</td>
<td>Relieving</td>
</tr>
<tr>
<td>5 to 100</td>
<td>Without</td>
</tr>
<tr>
<td>Metal / no sight glass</td>
<td>01</td>
</tr>
<tr>
<td>5 to 100</td>
<td>Manual</td>
</tr>
<tr>
<td>Metal / no sight glass</td>
<td>3</td>
</tr>
</tbody>
</table>

*Lubricator Reservoir Substitute*  
- Transparent with drain: A  
- Metal with drain: M  

*Filter/Regulator Drain Substitute*  
- Automatic: A  
- Manual: M  

*Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.*

Service Kits

<table>
<thead>
<tr>
<th>Item</th>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service kits, relieving</td>
<td>relieving, 5 µm element</td>
<td>3820-02</td>
</tr>
<tr>
<td>filter/regulator</td>
<td>non relieving, 5 µm element</td>
<td>3820-01</td>
</tr>
<tr>
<td>Service kit, lubricator</td>
<td></td>
<td>3795-03</td>
</tr>
<tr>
<td>Replacement drains</td>
<td>Manual</td>
<td>773-03</td>
</tr>
<tr>
<td></td>
<td>Automatic</td>
<td>3654-02</td>
</tr>
<tr>
<td>Replacement wall</td>
<td>Integral 2 piece</td>
<td>6700-30</td>
</tr>
<tr>
<td>bracket for PTH unit</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Filter/regulator service kit contains slip ring, diaphragm, valve seat with o-ring, valve, valve spring, element, element gasket, and bowl o-ring.  
Lubricator service kit contains sight-feed dome seal, cartridge o-ring, and bowl o-ring.
F07
Miniature Series 07 General Purpose Filter
1/8" and 1/4" Port Sizes

Compact design
Protects air operated devices by removing liquid and solid contaminants

Technical data
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

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

Operating temperature:*
Transparent bowl:
-30° to 125°F (-34° to 50°C)
Metal bowl:
-30° to 175°F (-34° to 80°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

Particle removal:
5 µm or 40 µm filter element

Air quality:
Within ISO 8573-1, Class 3 and Class 5 (particulates)

Drain connection:
1/8" male pipe thread

Materials
Body: zinc
Transparent bowl: Polycarbonate
Metal bowl: Zinc (without sight glass)
Element: sintered polypropylene
Elastomers: neoprene & nitrile

Ordering Information
Models listed include PTF threads, automatic drain, transparent bowl and 5 µm element.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Numbers</th>
<th>Flow scfm (dm3/s) *</th>
<th>Weight lbs (kg)</th>
<th>Replacement elements</th>
<th>Service kit**</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;</td>
<td>F07 100 A1TA</td>
<td>19 (9)</td>
<td>0.28 (0.13)</td>
<td>3652-17 (5µm)</td>
<td>3652-17</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>F07 200 A1TA</td>
<td>24 (11.5)</td>
<td>0.28 (0.13)</td>
<td>3652-18 (40µm)</td>
<td>3652-18</td>
</tr>
</tbody>
</table>

*Approximate flow at 90 psig (6.3 bar) inlet pressure and 5 psig (0.35 bar) pressure drop.
** Service kit includes element, element gasket, and bowl o-ring.

Alternative Models

F07 ˙00 ˙˙˙˙

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;</td>
<td>1</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>2</td>
</tr>
</tbody>
</table>

ISO Symbols

Auto Drain  Manual Drain

Typical Performance Characteristics

Lower panel: Flow characteristics
Port Size: 1/8"
Inlet Pressure: 150 psig (10 bar)
Flow: 0 to 20 scfm (4.8 to 56 dm3/min)
Pressure Drop: 0 to 10 psi (0 to 0.7 bar)

Upper panel: Air flow vs. pressure drop
Port Size: 1/8"
Inlet Pressure: 150 psig (10 bar)
Flow: 0 to 20 scfm (4.8 to 56 dm3/min)
Pressure Drop: 0 to 10 psi (0 to 0.7 bar)
F39
Oil removal (Coalescing) Filter
1/8" and 1/4" Port Sizes

Technical data
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

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

Operating temperature:*
Transparent bowl:
-30° to 125°F (-34° to 50°C)
Metal bowl:
-30° to 150°F (-34° to 65°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 2°C (35°F)

Oil aerosol removal:
Down to 0.01 µm

Air quality:
Within ISO 8573-1, Class 1 (particulates) and Class 2 (oil content)
Maximum remaining oil content of air leaving the filter: 0.01ppm at 70°F (21°C) with an inlet oil concentration of 17 ppm.
Maximum flow with 90 psig (6.3 bar) inlet pressure†:
1/8 ports, 6.0 scfm (2.8 dm3/s)
1/4 ports, 6.4 scfm (3 dm3/s)
† Maximum flow to maintain stated oil removal performance.

Nominal bowl size:
1 fluid ounce (31 ml)

Drain connection:
1/8" male pipe thread

Automatic drain operation:
Spitter type drain operates momentarily when a rapid change in air flow occurs or when the supply pressure is reduced.

Materials
Body: Zinc
Bowl: Transparent: Polycarbonate
Metal: Zinc
Element: Synthetic fiber and polyurethane foam
Elastomers: Neoprene & nitrile

Ordering Information
Models listed include PTF threads, automatic drain and transparent bowl.

<table>
<thead>
<tr>
<th>Port</th>
<th>Model</th>
<th>Saturated Flow*</th>
<th>Dry Flow</th>
<th>Weight</th>
<th>Element</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;</td>
<td>F39 100 A0TA</td>
<td>6.0 (2.8)</td>
<td>11.2 (5.3)</td>
<td>0.28 (0.13)</td>
<td>4141-10</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>F39 200 A0TA</td>
<td>6.4 (3.0)</td>
<td>12.2 (5.8)</td>
<td>0.28 (0.13)</td>
<td>4141-10</td>
</tr>
</tbody>
</table>
* Maximum flow at 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance.
** Includes element and O-rings.

Alternative Models

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;</td>
<td>1</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>2</td>
</tr>
</tbody>
</table>

Dimensions in inches (mm).

Minimum clearance to remove bowl.
† Mounting holes.
Miniature General Purpose Regulators

R07, R46

R07 General purpose
Snap action knob locks pressure setting when pushed in
Standard relieving models allow reduction of outlet pressure even when the system is dead-ended

R46 Non-repairable
Wrench flats for easy installation
Relieving piston design allows reduction of downstream pressure when the system is dead-ended
Choice of left to right or right to left flow

Technical data
R07
Fluid: Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.
Maximum pressure: 300 psig (20 bar)
Operating temperature: -34° to 150°F (-35° to 65°C) *
* Air supply must be dry enough to avoid ice formation at temperatures below 2°C (35°F).

R46
Fluid: Compressed air
Maximum pressure: 250 psig (17 bar)
Operating temperature*: -30° to 150°F (-34° to 65°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials
R07
Body: zinc
Bonnet: acetal
Knob: Acetal
Valve seat: acetal
Elastomers: nitrile
R46
Body: zinc
Knob: nylon
Valve: nitrile compound
Valve seat: acetal
Elastomers: nitrile

Ordering Information

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Flow†</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;</td>
<td>R07 100 RGKA</td>
<td>14 (6.5)</td>
<td>0.31 (0.19)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>R07 200 RGKA</td>
<td>15 (7)</td>
<td>0.31 (0.19)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>R46 200 RGKA</td>
<td>13 (6)</td>
<td>0.2 (0.09)</td>
</tr>
</tbody>
</table>

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)
† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) drop from set.

Alternative Models

R07
Threads Substitute
PTF A
ISO G parallel G
Outlet Pressure
Adjustment Ranges Substitute
1 to 10 psig (0.1 to 0.7 bar) A
5 to 50 psig (0.3 to 3.5 bar) E
5 to 100 psig (0.3 to 7 bar) K
5 to 125 psig (0.3 to 8.6 bar) L
Gauges Substitute
With G
Without N

R46
Threads Substitute
PTF A
ISO G parallel G
Outlet Pressure
Adjustment Ranges Substitute
5 to 50 psig (0.3 to 3.5 bar) E
5 to 125 psig (0.3 to 8.6 bar) L
5 to 150 psig (0.3 to 10 bar) M

ISO Symbols

Relieving Non relieving

* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified.
Do not use these units to control pressures outside of the specified ranges.

Norgren.com/usa – 303.794.2611 – help@amer.norgren.com
Miniature General Purpose Regulators
R07, R46

Dimensions in inches (mm).

Panel mounting hole diameter 1.19" (30 mm)
Maximum panel thickness 0.25" (6 mm)

R07

Typical Performance Characteristics
FLOW CHARACTERISTICS

PORT SIZE: 1/4"
INLET PRESSURE: 150 psig (10 bar g)
RANGE: 5 to 100 psig (0.3 to 7 bar)

FLOW CHARACTERISTICS

AIR FLOW

OUTLET PRESSURE

0 2 4 6 8 10 12 16 20 24 scfm

0 20 40 60 80 100 bar

R07 Service Kits

<table>
<thead>
<tr>
<th>Item</th>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service kit</td>
<td>Relieving</td>
<td>3407-02</td>
</tr>
<tr>
<td></td>
<td>Non relieving</td>
<td>3407-01</td>
</tr>
</tbody>
</table>

Service kit includes slip ring, diaphragm, standard valve seat with o-ring, valve, valve spring.

R46

Typical Performance Characteristics
FLOW CHARACTERISTICS

PORT SIZE: 1/4"
INLET PRESSURE: 100 psig (7 bar)
RANGE: 5 to 125 psig (0.3 to 8.6 bar)

FLOW CHARACTERISTICS

AIR FLOW

OUTLET PRESSURE

0 2 4 6 8 10 12 16 20 24 scfm

0 20 40 60 80 120 bar psi

R46 Service Kits

<table>
<thead>
<tr>
<th>Item</th>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
</table>
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All Dimensions in Inches (mm)
Miniature Filter/Regulators

B07 General purpose, and B39 Oil removal (coalescing) filter/regulators

Full flow gauge ports
High efficiency oil and particle removal
Excellent flow and regulation characteristics

Technical data
B07 Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum pressure
Transparent bowl: 150 psig (10 bar)
Metal bowl: 250 psig (17 bar)
Particle removal:
5µm
Operating temperature*
Transparent bowl:
30° to 125°F (-34° to 50°C)
Metal bowl:
-30° to 150°F (-34° to 65°C)
B39
Fluid:
Compressed air
Maximum pressure
Transparent bowl: 150 psig (10 bar)
Metal bowl: 250 psig (17 bar)
Aerosol oil removal:
Down to 0.01 µm
Operating temperature*
Transparent bowl:
-30° to 125°F (-34° to 50°C)
Metal bowl:
-30° to 150°F (-34° to 65°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

Materials
B07
Body: zinc
Bonnet: acetal
Valve seat: acetal
Transparent bowl: polycarbonate
Metal: zinc
Element: sintered polypropylene
Elastomers: nitrile
B39
Body: zinc
Bonnet: acetal
Valve: brass/nitrile
Valve seat: acetal
Transparent bowl: Polycarbonate
Metal: zinc
Element: synthetic fiber and polyurethane foam
Elastomers: nitrile

Ordering Information
Models listed include PTF threads, transparent bowl, relieving diaphragm, gauge, automatic drain, 5 to 100 psig (0.3 to 7 bar) outlet pressure adjustment range*.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Number</th>
<th>Flow scfm (dm3/s)</th>
<th>Weight lbs (kg)</th>
<th>Service kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;</td>
<td>B07 102 A1KA</td>
<td>13 (6.2 dm3/s)</td>
<td>0.57 (0.26)</td>
<td>3820-02</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>B07 202 A1KA</td>
<td>14 (6.5 dm3/s)</td>
<td>0.57 (0.26)</td>
<td>3820-02</td>
</tr>
<tr>
<td>1/8&quot;</td>
<td>B39 102 A0KA</td>
<td>4.0 (1.9)</td>
<td>0.57 (0.26)</td>
<td>3407-66</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>B39 202 A0KA</td>
<td>4.0 (1.9)</td>
<td>0.57 (0.26)</td>
<td>3407-66</td>
</tr>
</tbody>
</table>

*Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.
Miniature Filter/Regulators

**B07, and B39**

Dimensions in inches (mm).

**B07**

**Automatic Drain**

**Manual Drain**

**B39**

**Automatic Drain**

**Manual Drain**

**Typical Performance Characteristics**

**B07**

**Flow Characteristics**

**Outlet Pressure**

**Inlet Pressure**: 150 psig (10 bar g)

**Range**: 5 to 100 psig (0.3 to 7 bar)

**Flow Rate**

0□ 0.5□ 1□ 1.5□ 2□ 2.5□ dm³/s

**Air Flow**

0□ 1□ 2□ 3□ 4□ 5□ 6□ scfm

**Automatic Drain**

**Manual Drain**

**Flow Characteristics**

**Outlet Pressure**

**Inlet Pressure**: 150 psig (10 bar g)

**Range**: 5 to 100 psig (0.3 to 7 bar)

**Flow Rate**

0□ 0.5□ 1□ 1.5□ 2□ 2.5□ dm³/s

**Air Flow**

0□ 0.5□ 1□ 1.5□ 2□ 2.5□ scfm

**Dimensions in inches (mm).**

**Minimum clearance to remove bowl**

Panel mounting hole diameter: 1.19" (30 mm)

Panel thickness: 0.25" (6 mm)
Miniature Micro-Fog Lubricator

L07 Lubricators

All around (360°) visibility of the sight-feed dome simplifies installation and adjustment
Screw-on bowl reduces maintenance time
Can be disassembled without the use of tools or removal from the air line

Technical data
L07
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

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 (i.e. minimum flow required for lubricator operation):
0.5 scfm (0.24 dm³/s) at 90 psig (6.3 bar) inlet pressure

Nominal bowl size:
1 fluid ounce (31 ml)

Drain connection:
Will fit 1/8-27 and 1/8-28 pipe thread

Materials
Body: Zinc
Bowl
Transparent: Polycarbonate
Metal: Zinc
Sight-feed dome: Transparent nylon
Elastomers: Neoprene & nitrile

ISO Symbol

Ordering Information
Models listed have PTF threads.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Numbers</th>
<th>Flow scfm (dm³/s)*</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;</td>
<td>L07-100-MPAA</td>
<td>10 (5.0 dm³/s)</td>
<td>0.28 (0.13)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>L07-200-MPAA</td>
<td>14 (6.7 dm³/s)</td>
<td>0.28 (0.13)</td>
</tr>
</tbody>
</table>

* Approximate flow at 90 psig (6.3 bar) inlet pressure and 7 psig (0.5 bar) pressure drop.
Miniature Micro-Fog Lubricator

L07 Lubricators

Dimensions in inches (mm)

Typical Performance Characteristics

L07 Service Kits

<table>
<thead>
<tr>
<th>Item</th>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service kit</td>
<td>Seal and o-ring</td>
<td>3795-03</td>
</tr>
<tr>
<td>Replacement drain</td>
<td>Manual</td>
<td>773-03</td>
</tr>
</tbody>
</table>

Service kit includes o-ring, seal, and bowl o-ring.

Panel mounting hole diameter: 1.9" (30 mm)
Maximum panel thickness: 0.25" (6 mm)
† Minimum clearance to remove bowl.
F17
17 Series General Purpose Filter
3/4”, 1”, 1-1/4”, 1-1/2” Port Sizes

Screw-on bowl reduces maintenance time
Can be serviced without the use of tools or removal from the air line
Optional visual service indicator
Optional electrical service indicator also available
Protects air operated devices by removing liquid and solid contaminants

Technical data
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.
Maximum pressure:
250 psig (17 bar)
Operating temperature:* -30°F to 175°F (-34° to 80°C)
Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

Oil aerosol removal:
5 µm, or 40 µm filter element

Air quality:
Within ISO 8573-1, Class 3 and Class 5 (particulates)

Nominal bowl size:
1 quart (1 liter)

Manual drain connection:
Will fit 1/8-27 and 1/8-28 male pipe thread.

Automatic drain connection:
Will fit 1/8-27 and 1/8-28 female pipe thread.

Materials
Body: Aluminum
Bowl: Aluminum
Bowl sight glass: Pyrex
Elastomers: Neoprene and nitrile

Ordering Information
Models listed include automatic drain, 40 µm element, metal bowl with sight glass, and PTF threads.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Numbers</th>
<th>Flow scfm (dm³/s)*</th>
<th>Weight lbs (kg)</th>
<th>Filter elements**</th>
<th>Service kit††</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4”</td>
<td>F17 600 A3DA</td>
<td>325 (153)</td>
<td>4.26 (1.93)</td>
<td>5311-01 (5µm)</td>
<td>5578 05 (all filters)</td>
</tr>
<tr>
<td>1”</td>
<td>F17 800 A3DA</td>
<td>425 (201)</td>
<td>4.15 (1.88)</td>
<td>5311-03 (40µm)</td>
<td></td>
</tr>
<tr>
<td>1-1/4”</td>
<td>F17 A00 A3DA</td>
<td>425 (201)</td>
<td>4.39 (1.99)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-1/2”</td>
<td>F17 B00 A3DA</td>
<td>425 (201)</td>
<td>4.30 (1.95)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Typical flow with a 40 µm element at 90 psig (6.3 bar) inlet pressure and 5 psig (0.35 bar) pressure drop.
** Filter elements are sintered bronze
††Service kit includes bowl o-ring, drain gasket, and element gasket.

Alternative Models

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4”</td>
<td>B</td>
</tr>
<tr>
<td>1”</td>
<td>B</td>
</tr>
<tr>
<td>1-1/4”</td>
<td>A</td>
</tr>
<tr>
<td>1-1/2”</td>
<td>B</td>
</tr>
</tbody>
</table>

Dimensions in inches (mm).

ISO Symbols
Auto Drain
Manual Drain

Typical Performance Characteristics

Dimensions in inches (mm).

Norgren.com/usa – 303.794.2611 – help@amer.norgren.com
F18
18 Series General Purpose Filter
1-1/2" and 2" Port Sizes

Highly visible, prismatic liquid level indicator lens
Can be disassembled without removal from the air line
Optional visual service indicator
Optional electrical service indicator

Technical data
Fluid:
Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:
250 psig (17 bar)

Operating temperature*:
-30° to 175°F (-34° to 80°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Particle removal:
5 µm, or 40 µm filter element

Air quality:
Within ISO 8573-1, Class 3 and Class 5 (particulates)

Manual drain connection:
Will fit 1/8-27 and 1/8-28 male pipe thread.

Automatic drain connection:
Will fit 1/8-27 and 1/8-28 female pipe thread. - Flexible tube with 3/16" (5mm) minimum I.D. can be connected to the automatic drain. Drain may fail to operate if the tube I.D. is less than 3/16" (5mm). Avoid restrictions in the tube.

Materials
Body: Aluminum
Intermediate body: Aluminum
Bowl: Aluminum
Metal bowl liquid level indicator: Transparent nylon
Filter element: Sintered bronze
Elastomers: Neoprene and nitrile

Ordering Information
Models listed include automatic drain, 40 µm element, metal bowl with sight glass, and PTF threads.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Numbers</th>
<th>Flow scfm (dm3/s) *</th>
<th>Weight lbs (kg)</th>
<th>Replacements elements</th>
<th>Service kit**</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/2&quot;</td>
<td>F18 B00 A3DA</td>
<td>1400 (661)</td>
<td>14.90 (6.76)</td>
<td>5882-11 (5µm)</td>
<td>5945 50</td>
</tr>
<tr>
<td>2&quot;</td>
<td>F18 C00 A3DA</td>
<td>1400 (661)</td>
<td>14.65 (6.65)</td>
<td>5882-13 (40µm)</td>
<td></td>
</tr>
</tbody>
</table>

* Typical flow with a 40 µm element at 90 psig (6.3 bar) inlet pressure and 5 psig (0.35 bar) pressure drop.
** Service kit contains body o-ring, element gasket, automatic drain gasket, and bowl o-ring.

Alternative Models

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Substitute</th>
<th>Threads Substitute</th>
<th>Element Substitute</th>
<th>Drain Substitute</th>
<th>Manual 1/4 turn Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/2&quot;</td>
<td>B</td>
<td>PTF</td>
<td>5 µm</td>
<td>Automatic</td>
<td>Manual</td>
</tr>
<tr>
<td>2&quot;</td>
<td>C</td>
<td>ISO G parallel</td>
<td>40 µm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ISO Symbols

Auto Drain
Manual Drain

Typical Performance Characteristics

Norgren.com/usa – 303.794.2611 – help@amer.norgren.com
F46 Oil Removal (Coalescing)
Filter 3/4", 1", and 1-1/4" Port Sizes

High efficiency oil and particle removal
Standard service indicator turns from green to red when the filter element needs to be replaced
NOTE: Install an F17 filter with a 5 µm filter element upstream of the F46 filter for maximum service life.

Technical data
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.
Maximum pressure:
250 psig (17 bar)
Operating temperature:* -30° to 150°F (-34° to 65°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)
Oil aerosol removal:
Down to 0.01 µm
Air quality:
Within ISO 8573-1, Class 1 (particulates) and Class 2 (oil content)
Maximum remaining oil content in outlet air:
0.01ppm at 70°F (20°C) with an inlet oil concentration of 17 ppm.
Nominal bowl size:
1 quart US (1 liter)
Manual drain connection:
Will fit 1/8-27 and 1/8-28 male pipe thread.
Automatic drain connection:
Will fit 1/8-27 and 1/8-28 female pipe thread. - Flexible tube with 3/16" (5mm) minimum I.D. can be connected to the automatic drain. Drain may fail to operate if the tube I.D. is less than 3/16" (5mm). Avoid restrictions in the tube.
Materials
Body: Aluminum
Bowl: Aluminum
Bowl sight glass: Pyrex
Elastomers: Neoprene and nitrile
Filter element: Synthetic fiber and polyurethane foam

Ordering Information
Models listed include service indicator, automatic drain, metal bowl with sight glass, and PTF threads.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Numbers</th>
<th>Maximum Flow* scfm (dm³/s)</th>
<th>Weight lbs (kg)</th>
<th>Element Kit**</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;</td>
<td>F46 601 A0DA</td>
<td>90 (42)</td>
<td>4.11 (1.86)</td>
<td>5351-04</td>
</tr>
<tr>
<td>1&quot;</td>
<td>F46 801 A0DA</td>
<td>125 (59)</td>
<td>4.05 (1.84)</td>
<td></td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>F46 A01 A0DA</td>
<td>125 (59)</td>
<td>4.29 (1.95)</td>
<td></td>
</tr>
</tbody>
</table>

* Maximum flow for oil-saturated element at 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance.

**Service kit contains coalescing element, element o-ring, bowl o-ring, and drain gasket.

Alternative Models

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;</td>
<td>6</td>
</tr>
<tr>
<td>1&quot;</td>
<td>8</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>A</td>
</tr>
</tbody>
</table>

Threads
PTF: A
ISO G parallel: G

Bowl
Substitute
Metal with sight glass: D

Drain
Substitute
Automatic: A
Manual: M

Dimensions in inches (mm).

ISO Symbols
Automatic Drain
Manual Drain

Typical Performance Characteristic

Norgren/usa – 303.794.2611 – help@amer.norgren.com
**F47**

18 Series Oil Removal Filter
(Coalescing) 1-1/2" and 2" Port Sizes

Can be disassembled without removal from the air line

Standard service indicator

Optional electrical service indicator

NOTE: Install an F18 filter with a 5 µm filter element upstream of the F47 filter for maximum service life.

**Technical data**

**Fluid:**
Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:
250 psig (17 bar)

Operating temperature:* -30° to 150°F (-34° to 65°C)

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

Oil aerosol removal:
Down to 0.01 µm

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

Maximum remaining oil content in outlet air:
0.01 ppm at 70°F (20°C) with an inlet concentration of 17 ppm

Nominal bowl size:
7 fluid ounce (0.2 liter)

Manual drain connection:
Will fit 1/8-27 and 1/8-28 male pipe thread.

Automatic drain connection:
Will fit 1/8-27 and 1/8-28 female pipe thread. - Flexible tube with 3/16" (5mm) minimum I.D. can be connected to the automatic drain. Drain may fail to operate if the tube I.D. is less than 3/16" (5mm). Avoid restrictions in the tube.

**Materials**

Body, intermediate body, bowl: Aluminum

Metal bowl liquid level indicator lens: Transparent nylon

Filter element: Synthetic fiber and polyurethane foam

Elastomers: Neoprene and nitrile

Service indicator

Body: Transparent nylon

Internal parts: Acetal

Spring: Stainless steel

Elastomers: Nitrile

**Ordering Information**

Models listed include service indicator, automatic drain, metal bowl with sight glass, and NPT threads.

**Alternative Models**

F47-01-0DA

**Threads Substitute**

PTF A

ISO G parallel G

**Drain Substitute**

Automatic A

Manual, 1/4 turn M

**Port Size Substitute**

1-1/2" B

2" C

**Pressure Drop**

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Body and Element</th>
<th>Model Numbers</th>
<th>Flow scfm (dm3/s)*</th>
<th>Weight lbs (kg)</th>
<th>Element kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/2&quot;</td>
<td>Standard</td>
<td>F47-B01-A0DA</td>
<td>250 (118)</td>
<td>15.51 (7.04)</td>
<td>std flow 3203-02</td>
</tr>
<tr>
<td>2&quot;</td>
<td>Standard</td>
<td>F47-C01-A0DA</td>
<td>300 (142)</td>
<td>14.26 (6.47)</td>
<td>hi-flow 3203-05</td>
</tr>
<tr>
<td></td>
<td>High Flow</td>
<td>F47-C21-A0DA</td>
<td>600 (263)</td>
<td>22.17 (10.06)</td>
<td></td>
</tr>
</tbody>
</table>

* Maximum flow at 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance.

**Typical Performance Characteristics**

**Dimensions in inches (mm).**

- Automatic Drain
- Manual Drain
- ISO Symbols
- High Flow Filter with Automatic Drain
- Automatic Drain
- Body
- Service Indicator
- Bowl
- Air Prep 59-107 4th_YRBK03 *AirPrep 2/1/11 9:25 AM Page 71
General Purpose Regulators

R17, R18

R17
High flow regulator, 3/4" to 1-1/2" ports

R18
High flow pilot regulator, 1-1/2" and 2"

Provides rapid response, superior pressure regulation, and excellent stability.

Constant bleed feature in pilot regulator provides quick response and maintains accurate downstream pressures

Technical data

Fluid:
Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

R17
Maximum pressure: 300 psig (20 bar)
Operating temperature: -30°F to 175°F (-34° to 80°C) (R17)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

Materials
Body: aluminum
Bonnet: aluminum
Bottom plug: acetal
Valve: aluminum and nylon
Elastomers: nitrile

R18
Inlet pressure range:
10 psig (0.7 bar) minimum to 450 psig (31 bar) maximum

Operating temperature:
0°F to 175°F (-18° to 80°C) (R17)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

Materials
Body: aluminum
Bonnet: aluminum
Bottom plug: aluminum
Pilot Operated Regulator: aluminum
Elastomers: Nitrile

Alternative Models

Ordering Information
Models listed have PTF threads, knob adjustment, relieving type diaphragm, and gauge,

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Number</th>
<th>Flow† scfm (dm³/s)</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>R17 800 RGLA</td>
<td>480 (227)</td>
<td>2.02 (0.92)</td>
</tr>
<tr>
<td>2&quot;</td>
<td>R18 C55 RGLA</td>
<td>2000 (944)</td>
<td>8.27 (3.75)</td>
</tr>
</tbody>
</table>

† Typical flow with 100 psig (0.7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set.

ISO Symbols

R17 Relieving
R17 Non relieving
R18 with Conventional Pilot Regulator
R18 with Feedback Pilot Regulator

Norgren.com/usa – 303.794.2611 – help@amer.norgren.com
General Purpose Regulators

R17, R18

Dimensions in inches (mm).

Panel mounting hole diameter: 2.28” (58 mm)
Panel thickness: 0.06” to 0.16” (2 to 4 mm)

R17

R18 with R40 Conventional Integral Pilot Regulator

R18 with R41 Feedback Integral Pilot Regulator

Panel mounting hole diameter: 2.28” (58 mm)
Panel thickness: 0.06” to 0.16” (2 to 4 mm)

*OD of panel mount nut. Nut not included
**11-002 & 20AG Pressure Regulator**

1/4", 3/8", and 1/2", G3/4, and G1 ports

Large diaphragm provides accurate and quick response to changing flow demands and line pressure

Floating valve pin provides positive valve seating

Balanced valve minimizes effect of variations in inlet pressure on outlet pressure

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

**Technical data**

**Fluid:** Compressed air, neutral gases

**NOTE:** Contact Norgren for use with other media.

**Maximum pressure:** 400 psig (28 bar)

**Operating temperature**: -30° to 175°F (-34° to 80°C)

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

**Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from set:**

- 1/4" and 3/8" ports: 60 scfm (28 dm3/s)
- 1/2" ports: 200 scfm (95 dm3/s)

**Gauge ports**

- 1/8" PTF with PTF main ports
- Rc1/8 with ISO G and ISO Rc main ports

**Materials**

- **Body:** Zinc
- **Bonnet:** Aluminum
- **Valve:** Brass and nitrile
- **Valve seat:** Brass
- **Elastomers:** Nitrile
- **Bottom plug**
  - 1/4" and 3/8" Ports: Brass
  - 1/2" Ports: Nylon

**Ordering Information**

Models listed have T-bar adjustment, relieving diaphragm. PTF models are 5 to 125 psig (0.3 to 8.5 bar) outlet pressure adjustment range*. For alternative models please contact the factory.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Number</th>
<th>Flow scfm (dm3/s)</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>11-002-013</td>
<td>60 (30)†</td>
<td>1.9 (0.86)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>11-002-037</td>
<td>60 (30)†</td>
<td>1.9 (0.86)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>11-002-061</td>
<td>200 (100)†</td>
<td>2.0 (0.91)</td>
</tr>
<tr>
<td>G3/4</td>
<td>20AG-X6G/PD100</td>
<td>160 (80)**</td>
<td>6.1 (2.75)</td>
</tr>
<tr>
<td>G3/4</td>
<td>20AG-X6G/PH100</td>
<td>160 (80)**</td>
<td>6.3 (2.85)</td>
</tr>
<tr>
<td>G1</td>
<td>20AG-X8G/PD100</td>
<td>200 (100)**</td>
<td>5.4 (2.44)</td>
</tr>
<tr>
<td>G1</td>
<td>20AG-X8G/PH100</td>
<td>200 (100)**</td>
<td>6.4 (2.90)</td>
</tr>
</tbody>
</table>

† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from set.

*Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

** Maximum flow with 7 bar inlet pressure, 4 bar outlet pressure and a pressure droop of 1 bar.

**Service Kits**

<table>
<thead>
<tr>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relieving, 1/4&quot; and 3/8&quot; ports</td>
<td>529-03</td>
</tr>
<tr>
<td>Relieving, 1/2&quot; ports</td>
<td>535-03</td>
</tr>
<tr>
<td>Non-relieving, 1/4&quot; and 3/8&quot; ports</td>
<td>529-01</td>
</tr>
<tr>
<td>Non-relieving, 1/2&quot; ports</td>
<td>535-01</td>
</tr>
</tbody>
</table>

*Kit includes diaphragm, valve, valve spring, and o-rings.*
11-002 Pressure Regulator
1/4", 3/8", and 1/2" ports

Typical Performance Characteristics

FLOW CHARACTERISTICS

PORT SIZE: 1/4"
INLET PRESSURE: 150 psig (10 bar)
RANGE: 5 to 125 psig (0.3 to 8.6 bar)

FLOW CHARACTERISTICS

PORT SIZE: 1/2"
INLET PRESSURE: 150 psig (10 bar)
RANGE: 5 to 125 psig (0.3 to 8.6 bar)

FLOW CHARACTERISTICS

PORT SIZE: 1/4"
INLET PRESSURE: 100 psig (7 bar)
RANGE: 5 to 125 psig (0.3 to 8.6 bar)

FLOW CHARACTERISTICS

PORT SIZE: 1/2"
INLET PRESSURE: 100 psig (7 bar)
RANGE: 5 to 125 psig (0.3 to 8.6 bar)

Panel Mounting Option
Requires alternative threaded bonnet.
Panel mounting hole diameter: 1.06" (27 mm).
Panel thickness: 0.2" to 0.4" (5 to 10 mm).

* Regulators with 1/4" and 3/8" ports.
** Regulators with 1/2" ports.

Dimensions in inches (mm)
R24 Micro-Trol Pressure Regulator

1/4" to 1-1/4" ports

High flow regulator with exceptional high relief flow
Adjusting knob can be set in the field to stop at some maximum pressure setting or some minimum pressure setting
Easy to adjust even at high output pressures
Balanced valve minimizes effect of variations in inlet pressure on outlet pressure
Constant bleed feature provides maximum sensitivity to system changes
Relieving feature allows reduction of downstream pressure when the system is dead-ended
Full flow gauge ports

Technical data

Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum inlet pressure:
300 psig (20 bar)

Operating temperature:
0° to 150°F (-20° to 80°C)*
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Maximum bleed rate at 50 psig (3.5 bar) outlet pressure:
0.031 scfm (0.016 dm³/s) †
† Maximum bleed rate occurs under dead-end (no flow) conditions.

Port sizes:
Main Gauge
1/4" 1/4"
3/8" 3/8"
1/2", 3/4", 1", 1-1/4" 1/2"

Thread type: PTF, ISO G, or Rc

Materials
Body, top cap: Zinc
Main valve, adjusting screw: Brass
Pilot valve, relief valve: Acetal
Elastomers: Nitrile
Bottom Plug: Acetal

ISO Symbol

Ordering Information.
Models listed are constant bleed units with relieving diaphragm, 10 to 125 psig (0.7 to 8 bar) outlet pressure adjustment range, and PTF threads.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Flow (scfm)</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>R24-400-RGLA</td>
<td>200</td>
<td>1.79 (0.81)</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>R24-A00-RGLA</td>
<td>700</td>
<td>2.65 (1.20)</td>
</tr>
</tbody>
</table>

Alternative Models

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>2</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>3</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>4</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>6</td>
</tr>
<tr>
<td>1&quot;</td>
<td>8</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>A</td>
</tr>
</tbody>
</table>

Threads Substitute
PTF A
ISO G parallel G

Outlet Pres Adj. Ranges* Substitute
5 to 30 psig (0.3 to 2 bar) C
5 to 60 psig (0.3 to 4 bar) F
10 to 125 psig (0.7 to 8 bar) L
10 to 250 psig (0.7 to 17 bar) S

Gauge Substitute
With G**
Without N

* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.
** A factory installed gauge is only available with PTF threads (A in last position of model number). If a gauge is desired with ISO threads (B or G in last position), order the desired gauge and appropriate reducing bushing from Accessories.
R24 Micro Trol Pressure Regulator

1/4" to 1-1/4" ports

Typical Performance Characteristics
RANGE: 10 to 232 psi (0.7 to 16 bar)

FLOW CHARACTERISTICS
PORT SIZE: 1/4"
INLET PRESSURE: 150 psig (10 bar)
RANGE: 10 to 125 psig (0.7 to 8.8 bar)

RELIEF FLOW CHARACTERISTICS
TYPICAL ALL MODELS
INLET PRESSURE: 200 psig (14 bar g)

Service Kits

<table>
<thead>
<tr>
<th>Item</th>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service kit</td>
<td>1/4, 3/8, 1/2</td>
<td>5292-52</td>
</tr>
<tr>
<td>Service kit</td>
<td>3/4, 1, 1-1/4</td>
<td>5292-53</td>
</tr>
</tbody>
</table>

Service kits include seals, main valve and spring.

Panel mounting hole diameter: 1.26" (32 mm)
Maximum panel thickness: 0 to 0.12" (3 mm)
11-018 Precision Air Pressure Regulator

1/4" Port Size

Fast response
Minimum overshoot during flow changes
Constant bleed feature provides maximum sensitivity to system changes
Relieving feature allows reduction of downstream pressure when the system is dead-ended

Technical data
Fluid:
Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.
Note: 5 micron prefiltration and oil-free air required.

Inlet pressure range*
Low Pressure Models: 8 to 150 psig (0.55 to 10.3 bar)
High Pressure Models: 10 to 200 psig (0.7 to 13.8 bar)

* Inlet pressure must be at least 7 psig (0.5 bar) greater than the adjusted outlet pressure for proper operation.

Operating temperature**:
32° to 160°F (0° to 70°C)

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

Repeatability
Low Pressure Models: 0.02 psig (0.001 bar) for flow change; 0.05 psig (0.004 bar) when turning supply off and on
High Pressure Models: 0.08 psig (0.006 bar) for flow change; 0.16 psig (0.011 bar) when turning supply off and on

Constant bleed feature: Under dead-end conditions, a small, constant bleed of pilot air will escape thru the relief passage in the bottom plug. This will be accompanied by a slight residual outlet pressure of 1 to 4 inches H2O (2.5 to 10 millibar).

Gauge ports:
1/4" PTF

Materials
Body and bonnet: Zinc
Main valve: Polycarbonate
Main valve seat: Teflon
Pilot valve: Stainless steel
Pilot valve seat: Aluminum
Main diaphragm: Nitrile
Pilot diaphragm
Low Pressure Models:302 SS
High Pressure Models: Nitrile
Bottom plug: Brass
Elastomers: Nitrile, neoprene, polyurethane

Ordering Information
Models listed have PTF threads, hand wheel adjustment, and relieving diaphragm. A gauge is not included.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Outlet Pressure Adjustment Range*</th>
<th>Model Number</th>
<th>Flow scfm (dm3/s)</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>0.4 to 10 psig (0.03 to 0.69 bar)</td>
<td>11-018-146 (low pressure)</td>
<td>12 (5.66)†</td>
<td>1.4 (0.64)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>1.0 to 60 psig (0.1 to 4.1 bar)</td>
<td>11-018-100 (low pressure)</td>
<td>12 (5.66)†</td>
<td>1.4 (0.64)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>3 to 150 psig (0.2 to 10.3 bar)</td>
<td>11-018-110 (high pressure)</td>
<td>12 (5.66)††</td>
<td>1.4 (0.64)</td>
</tr>
</tbody>
</table>

* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.
† Typical flow with 100 psig (7 bar) inlet pressure, 60 psig (4.1 bar) set pressure and 0.125 psig (0.009 bar) droop from set.
†† Typical flow with 200 psig (14 bar) inlet pressure, 60 psig (4.1 bar) set pressure and 0.250 psig (0.017 bar) droop from set.

Service Kits

<table>
<thead>
<tr>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Pressure Models</td>
<td>2787-01</td>
</tr>
<tr>
<td>High Pressure Models</td>
<td>2787-02</td>
</tr>
<tr>
<td>Special tool to install main valve seat</td>
<td>681-01</td>
</tr>
</tbody>
</table>

Service kit includes o-rings, seats, pilot diaphragm, pilot spring, main diaphragm, main valve, main valve seat, diffuser screen, constant bleed orifice and orifice filter.
11-018 Precision Air Pressure Regulator
1/4" Port Size

Typical Performance Characteristics

LOW PRESSURE MODELS - FLOW CHARACTERISTICS
INLET PRESSURE: 100 psig (7 bar)
RANGE: 1 to 60 psig (0.1 to 4.1 bar)

LOW PRESSURE MODELS - REGULATION CHARACTERISTICS
RANGE: 1 to 60 psig (0.1 to 4.1 bar)

HIGH PRESSURE MODELS - FLOW CHARACTERISTICS
INLET PRESSURE: 200 psig (14 bar)
RANGE: 3 to 150 psig (0.2 to 10.3 bar)

HIGH PRESSURE MODELS - REGULATION CHARACTERISTICS
RANGE: 3 to 150 psig (0.2 to 10.3 bar)

Panel mounting hole diameter: 0.47" (12 mm)
Maximum panel thickness: 0.094" (2.4 mm)

Dimensions in inches (mm)
R38 Instrument Regulator and B38 Filter/Regulator
Aluminum Model 1/4" Port Size

Compact instrument units with high performance
Stable regulation with temperature compensation
Excellent flow and regulation characteristics
Panel Mounting facility
Technical data

Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum pressure:
290 psig (20 bar)
Operating temperature:
-40° to 175°F (-40° to 80°C) *
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Typical relief differential at 30 psig (2 bar) outlet pressure:
2.3 psig (0.16 bar)

Maximum bleed flow at 30 psig (2 bar) outlet pressure (relieving types only):
0.003 scfm (1.5 cm3/s)†
† Maximum bleed rate occurs under dead-end (no flow) conditions.

Gauge ports:
1/4 NPT

Materials
Body: Aluminum
Bonnet: Aluminum
Adjusting screw: Steel
Elastomeric materials: Nitrile

Ordering Information
Models listed are relieving type with 0.6 to 30 psig (0.04 to 2 bar) outlet pressure adjustment range *, and NPT threads. A gauge is not included.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Number</th>
<th>Flow† scfm (dm3/s)</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; PTF</td>
<td>R38-200-RNCA</td>
<td>17 (8)</td>
<td>1.06 (0.48)</td>
</tr>
<tr>
<td>1/4&quot; PTF</td>
<td>R38-200-B2CA</td>
<td>17 (8)</td>
<td>1.18 (0.54)</td>
</tr>
</tbody>
</table>

* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.
† Typical flow with 100 psig (7 bar) inlet pressure, 15 psig (1 bar) set pressure and 1 psig (0.05 bar) droop from set.

Service Kits

<table>
<thead>
<tr>
<th>R38 Item</th>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 psig (2 bar) Range</td>
<td>Relieving</td>
<td>R38-100-R</td>
</tr>
<tr>
<td>60, 100 psig (4 bar, 7 bar) Range</td>
<td>Relieving</td>
<td>R38-101-R</td>
</tr>
</tbody>
</table>

Service kit includes diaphragm assembly, o-ring, valve, valve spring and 8 pan head screws.

B38 Filter Elements

| B38-100A (5) | 5 µm |
| B38-100A (25) | 25 µm |
Typical Performance Characteristics

** Minimum clearance required to remove bowl.
Panel mounting hole diameter: 1.65" (42 mm)
Panel thickness: 0" to 0.24" (0 to 6 mm)
Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

Technical data
Fluid: Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.
Inlet pressure range:
10 psig (0.7 bar) to 450 psig (31 bar) maximum
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).

Maximum bleed rate at 50 psig (3.5 bar) outlet pressure:
0.25 scfm (0.12 dm3/s)†
†Maximum bleed rate occurs under dead-end (no flow) conditions.

Pilot ports:
1/4" PTF, ISO G, or ISO Rc
R41 feedback port: 1/8" PTF, ISO G, or ISO Rc

Materials
Body, bonnet: Aluminum
Valve: Teflon
Elastomers: Nitrile

R40, R41
R40 Conventional Pilot Regulator, and R41 Feedback Pilot Regulator
1/4" Port Size
Pilot regulators are used to control the outlet pressure of a pilot operated regulator (ordered separately)
R41 can be close coupled to a 2" R18 pilot regulator
Conventional pilot regulator provides good pressure regulation, rapid response to changing flow demands, and excellent stability.
Feedback pilot regulator provides superior pressure regulation under changing flow demands where changes in flow demand are not sudden or cyclic.
Constant bleed feature provides maximum sensitivity to system changes

Ordering Information
Models listed are relieving with constant bleed, 10 to 250 psig (0.7 to 17 bar) outlet pressure adjustment range *, PTF ports.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Type</th>
<th>Model</th>
<th>Flow† scfm (dm3/s)</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>Conventional</td>
<td>R40-200-BNSA</td>
<td>6.4 (3)</td>
<td>1.66 (0.75)</td>
</tr>
<tr>
<td></td>
<td>Feedback</td>
<td>R41-204-BNSA††</td>
<td>6.4 (3)</td>
<td>1.66 (0.75)</td>
</tr>
</tbody>
</table>

† Typical flow with 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) drop from set.
†† Do not use the R41 feedback pilot regulator to control outlet pressures at or less than 100 psig (7 bar). Use the 11-104 feedback pilot regulator at those pressures.

Alternative Models

<table>
<thead>
<tr>
<th>Type</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>R40 Conventional</td>
<td>40</td>
</tr>
<tr>
<td>R41 Feedback</td>
<td>41</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mounting/Type</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote/R40 Conventional</td>
<td>00</td>
</tr>
<tr>
<td>Remote/R41 Feedback</td>
<td>04</td>
</tr>
</tbody>
</table>

* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

Feedback Pilot Regulator Warning
The feedback line must sense the pilot operated regulator outlet pressure and must be connected before turning on the air supply. If the feedback line is not connected, the pilot operated regulator outlet pressure will rapidly increase to the inlet pressure when the adjusting knob on the pilot regulator is turned clockwise.

ISO Symbols

R40 Conventional Pilot Regulator with Pilot Operated Regulator
R41 Feedback Pilot Regulator with Pilot Operated Regulator
**Service kit contains diaphragm, valve spring, guide bushing, valve, valve spring, filter screen, and all o-rings.**
Pilot regulators are used to control the outlet pressure of a pilot operated regulator (ordered separately).

The pilot regulator is installed in an accessible location in the compressed air system; pilot operated regulator is installed at any point without regard to accessibility.

Conventional pilot regulator provides good pressure regulation, rapid response to changing flow demands, and excellent stability.

Constant bleed feature provides maximum sensitivity to system changes.

Relief feature allows reduction of downstream pressure when the system is dead-ended.

Technical data:

- Fluid: Compressed air filtered to 5µm, neutral gases.
  
  **Note:** Contact Norgren for use with other media.

- Maximum inlet pressure: 360 psig (25 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).

- Typical flow: with 100 psig (7 bar) inlet pressure, 23 psig (1.6 bar) set pressure and 1.5 psig (0.1 bar) droop from set: 4.2 scfm (2 dm3/s)

- Gauge ports: 1/8” PTF.

- Materials: Body, bonnet: Zinc
  
  Elastomers: Nitrile

### Ordering Information

Models listed are relieving with constant bleed, PTF threads, without gauge.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Number</th>
<th>Range psig (bar)</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>11-400-2G/AC103</td>
<td>1 to 30 (0.06 to 2)</td>
<td>1.98 (0.90)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>11-400-2G/AE103</td>
<td>1 to 60 (0.06 to 4)</td>
<td>2.07 (0.94)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>11-400-2G/AG103</td>
<td>2 to 100 (0.16 to 7)</td>
<td>2.2 (1.00)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>20AL-X2G/AK103</td>
<td>100 to 300 (7 to 20)</td>
<td>2.3 (1.05)</td>
</tr>
</tbody>
</table>

### Service Kits

- **Type**: 11 400-20AL-X
  - **Part number**: 11 400-100/20AL

Service kit includes: diaphragm assemblies, valve assembly, valve spring o-rings and valve seats for pilots
Mounting Dimensions
(Shown with optional gauge and mounting bracket)

Dimensions in inches (mm)

- Panel mount hole: 1.062 (27)
- Hole: 1.062 (27)
- Panel mount: 3.15 (80)
- 2.17 (55)
- 1.26 (32)
- 1.97 (50)
- 5.5 (14)
- 3.74 (95)
- 0.40 (10) max
- 0.20 (5) min
- 3.15 (80)
- 3.35 (85)
- 0.28 (7)
- 2.17 (55)
- 5.70 - 6.50 (145 - 165)
- 1.062 (27)
- 3.15 (80)

Typical Performance Characteristics

FLOW CHARACTERISTICS
PORT SIZE: 1/4" 
INLET PRESSURE: 100 psig (7 bar)
RANGE: 1 to 30 psig (0.06 to 2 bar)

FLOW CHARACTERISTICS
PORT SIZE: 1/4" 
INLET PRESSURE: 100 psig (7 bar)
RANGE: 2 to 120 psig (0.16 to 7 bar)

REGULATION CHARACTERISTICS
PORT SIZE: 1/4" 
INLET PRESSURE: 150 psig (10 bar)
RANGE: 2 to 100 psig (0.16 to 7 bar)
Curves are 50% of recommended flow

REGULATION CHARACTERISTICS
PORT SIZE: 1/4" 
INLET PRESSURE: 150 psig (10 bar)
RANGE: 1 to 30 psig (0.06 to 2 bar)
Curves are 50% of recommended flow
Pilot regulators are used to control the outlet pressure of a pilot operated regulator (ordered separately).

The pilot regulator is installed in an accessible location in the compressed air system; pilot operated regulator is installed at any point without regard to accessibility.

Feedback pilot regulator provides superior pressure regulation under changing flow demands where changes in flow demand are not sudden or cyclic.

Constant bleed feature provides maximum sensitivity to system changes.

Relief feature allows reduction of downstream pressure when the system is dead-ended.

Technical data

Fluid:
Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Inlet pressure range:
10 psig (0.7 bar) to 400 psig (27.6 bar) maximum

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).

Maximum bleed rate at 50 psig (3.5 bar) outlet pressure:
0.25 scfm (0.12 dm³/s)†

†Maximum bleed rate occurs under dead-end (no flow) conditions.

Pilot ports:
1/4" PTF

Feedback port:
1/8" PTF

Materials
Body, bonnet: Zinc
Valve seat: Brass
Valve ball: Stainless steel

Ordering Information.
Model listed is relieving, constant bleed, 5 to 100 psig (0.3 to 7 bar) outlet pressure adjustment range†, with PTF ports.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Type</th>
<th>Model</th>
<th>Weight lb (kg)</th>
<th>Pressure psig (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; PTF</td>
<td>Feedback Pilot</td>
<td>11-104-001</td>
<td>3.38 (1.53)</td>
<td>5-105 (3.7)</td>
</tr>
<tr>
<td>1/4&quot; PTF</td>
<td>Feedback Pilot</td>
<td>11-104-002</td>
<td>3.38 (1.53)</td>
<td>50-250 (3.5-17)</td>
</tr>
</tbody>
</table>

† Outlet pressures can be adjusted to pressures in excess or, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

Service Kits

<table>
<thead>
<tr>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-104</td>
<td>1970-11</td>
</tr>
</tbody>
</table>

Service kit includes: diaphragm assemblies, valve assembly, valve spring o-rings and valve seats for pilots.

Feedback Pilot Regulator Warning

The feedback line must sense the pilot operated regulator outlet pressure and must be connected before turning on the air supply. If the feedback line is not connected, the pilot operated regulator outlet pressure will rapidly increase to the inlet pressure when the adjusting knob on the pilot regulator is turned clockwise.

Service Kits

<table>
<thead>
<tr>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-104</td>
<td>1970-11</td>
</tr>
</tbody>
</table>

Service kit includes: diaphragm assemblies, valve assembly, valve spring o-rings and valve seats for pilots.
11-104
Feedback Pilot Regulator
1/4" Port Size

Panel mounting hole diameter: 1.06" (27 mm)
Maximum panel thickness: 0.38" (10 mm)

Dimensions inches (mm)

Typical installation

FEEDBACK PILOT REGULATOR
SUPPLY AIR
FEEDBACK LINE
PILOT OUTPUT LINE
OUTLET AIR
SUPPLY AIR
11-042 PILOT OPERATED REGULATOR
Pilot Operated Regulators

11-042 and 11-008

Designed for systems that require pressure regulation at an inaccessible location. A pilot regulator (ordered separately) controls the outlet pressure of the pilot operated regulator.

Technical data

Fluid: Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Inlet pressure range: 10 psig (0.7 bar) to 400 psig (27.6 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).

Materials

11-042
Body: zinc
Bonnet: aluminum
Bottom plug: acetal
Valve: brass
Elastomers: nitrile

11-008
Body: zinc
Bonnet: aluminum
Bottom plug:
- 1/2", 3/4 ports: glass filled nylon
- 1" ports: brass
Gauge port: 1/8" NPT
Pilot port: 1/4" NPT
Valve: brass
Elastomers: nitrile

11-042 and 11-008 Pilot Operated Regulator Ordering Information

Models listed include relieving diaphragm and PTFE threads. Also order a pilot regulator.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Flow* scfm (dm³/s)</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>11-042-001</td>
<td>120 (57)</td>
<td>2.8 (1.3)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>11-042-002</td>
<td>120 (57)</td>
<td>2.7 (1.2)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>11-042-003</td>
<td>120 (57)</td>
<td>2.6 (1.2)</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>11-042-007</td>
<td>300 (142)</td>
<td>4.8 (2.2)</td>
</tr>
<tr>
<td>1&quot;</td>
<td>11-042-008</td>
<td>300 (142)</td>
<td>4.6 (2.1)</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>11-042-009</td>
<td>300 (142)</td>
<td>4.3 (2.0)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>11-008-130</td>
<td>70 (33)</td>
<td>1.6 (0.7)</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>11-008-009</td>
<td>110 (52)</td>
<td>4.9 (2.2)</td>
</tr>
<tr>
<td>1&quot;</td>
<td>11-008-110</td>
<td>180 (85)</td>
<td>4.6 (2.1)</td>
</tr>
</tbody>
</table>

* Typical flow with 100 psig (0.7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 5 psig (0.35 bar) from set.

For additional models contact the factory.

Feedback Pilot Regulator Warning

The feedback line must sense the pilot operated regulator outlet pressure and must be connected before turning on the air supply. If the feedback line is not connected, the pilot operated regulator outlet pressure will rapidly increase to the inlet pressure when the adjusting knob on the pilot regulator is turned clockwise.
Pilot Operated Regulators
11-042 and 11-008

**11-042**

<table>
<thead>
<tr>
<th>Port Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;, 3/8&quot;, 1/2&quot;</td>
<td>4.16</td>
<td>2.71</td>
<td>1.48</td>
<td>5.07</td>
</tr>
<tr>
<td>3/4&quot;, 1&quot;, 1-1/4&quot;</td>
<td>4.16</td>
<td>3.65</td>
<td>1.86</td>
<td>5.97</td>
</tr>
</tbody>
</table>

Dimensions in inches (mm)

**11-008**

<table>
<thead>
<tr>
<th>Port Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>3.34</td>
<td>3.38</td>
<td>1.50</td>
<td>3.30</td>
</tr>
<tr>
<td>3/4&quot;, 1&quot;</td>
<td>4.91</td>
<td>4.63</td>
<td>1.69</td>
<td>4.36</td>
</tr>
</tbody>
</table>

Dimensions in inches (mm)

**Typical Performance Characteristics**

**Flow Characteristics**

<table>
<thead>
<tr>
<th>PORT SIZE: 1/2&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>PILOT SPRING RANGE: 5 to 125 psig (0.3 to 8.5 bar)</td>
</tr>
<tr>
<td>INLET PRESSURE: 150 psig (10.3 bar)</td>
</tr>
</tbody>
</table>

| AIR FLOW | 0 | 20 | 40 | 60 | 80 | 100 | 120 | 150 | 200 | 240 | 300 | 400 | 500 | 600 | 800 | 1000 | 1200 | 1500 |
|----------|---|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| OUTLET PRESSURE | 0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260 | 280 | 300 | 320 | 340 |

**Relief Characteristics**

<table>
<thead>
<tr>
<th>PORT SIZE: 1/2&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>PILOT SPRING RANGE: 5 to 125 psig (0.3 to 8.5 bar)</td>
</tr>
<tr>
<td>INLET PRESSURE: 150 psig (10.3 bar)</td>
</tr>
</tbody>
</table>

| RELIEF AIR FLOW | 0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260 | 280 | 300 | 320 | 340 |
|-----------------|---|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| OUTLET PRESSURE | 0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260 | 280 | 300 | 320 | 340 |

**11-042 Service Kits**

<table>
<thead>
<tr>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kit for 1/4&quot;, 3/8&quot;, 1/2&quot; units</td>
<td>4158-01</td>
</tr>
<tr>
<td>Kit for 3/4&quot;, 1&quot;, 1-1/4&quot; units</td>
<td>4158-02</td>
</tr>
<tr>
<td>O-ring kit for 1/4&quot;, 3/8&quot;, 1/2&quot; units</td>
<td>4158-03</td>
</tr>
<tr>
<td>O-ring kit for 3/4&quot;, 1&quot;, 1-1/4&quot; units</td>
<td>4158-04</td>
</tr>
</tbody>
</table>

Kit contains filter screen, diaphragm, and all o-rings.

**11-008 Service Kits**

<table>
<thead>
<tr>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot; ported units</td>
<td>695-01</td>
</tr>
<tr>
<td>3/4&quot;, 1&quot; ported units</td>
<td>696-01</td>
</tr>
</tbody>
</table>

Kit contains diaphragm, valve, and all o-rings.

**Type Part number**

| 1/4", 3/8", 1/2" ported units | 695-01 |
| 3/4", 1" ported units | 696-01 |

| Kit contains filter screen, diaphragm, and all o-rings. |
| O-ring kit contains filter screen and all o-rings. |
Pilot Operated Regulators

R18 and R24

Designed for systems that require pressure regulation at an inaccessible location.

A pilot regulator (ordered separately) controls the outlet pressure of the pilot operated regulator.

Technical data

R18
Fluid: Compressed air
Inlet pressure range: 10 psig (0.7 bar) minimum to 450 psig (31 bar) maximum
Operating temperature: 0° to 175°F (-18° to 80°C)*

R24
Fluid: Compressed air, neutral gases
Inlet pressure range: 10 psig (0.7 bar) to 300 psig (20 bar)
Operating temperature: 0° to 175°F (-20° to 80°C)**

Technical data

R18
Fluid: Compressed air
Inlet pressure range: 10 psig (0.7 bar) minimum to 450 psig (31 bar) maximum
Operating temperature: 0° to 175°F (-18° to 80°C)*

R24
Fluid: Compressed air, neutral gases
Inlet pressure range: 10 psig (0.7 bar) to 300 psig (20 bar)
Operating temperature: 0° to 175°F (-20° to 80°C)**

Ordering Information
Models listed include relieving diaphragm and PTF threads. Also order a pilot regulator.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Flow† scfm (dm3/s)</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/2&quot;</td>
<td>R18-800-RNXA††</td>
<td>2000 (944)</td>
<td>6.82 (3.09)</td>
</tr>
<tr>
<td>2&quot;</td>
<td>R18-200-RNXA††</td>
<td>2000 (944)</td>
<td>6.61 (2.99)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>R24-201-RNXA</td>
<td>1.16 (0.73)</td>
<td></td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>R24-301-RNXA</td>
<td>1.54 (0.70)</td>
<td></td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>R24-401-RNXA</td>
<td>1.50 (0.68)</td>
<td></td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>R24-601-RNXA</td>
<td>2.60 (1.18)</td>
<td></td>
</tr>
<tr>
<td>1&quot;</td>
<td>R24-801-RNXA</td>
<td>2.60 (1.18)</td>
<td></td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>R24-A01-RNXA</td>
<td>2.51 (1.14)</td>
<td></td>
</tr>
</tbody>
</table>

† Typical flow with 100 psig (0.7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set.
†† Do not use the R41 feedback pilot regulator to control outlet pressures at or less than 100 psig (7 bar). Use the 11-104 feedback pilot regulator at those pressures.

Alternative Models - R18

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Substitute</th>
<th>Threads Substitute</th>
<th>Diaphragm Substitute</th>
<th>Gauge* Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/2&quot;</td>
<td>B</td>
<td>PTF</td>
<td>R</td>
<td>Without N</td>
</tr>
<tr>
<td>2&quot;</td>
<td>C</td>
<td>ISO G parallel</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Alternative Models - R24

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Substitute</th>
<th>Threads Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>2</td>
<td>PTF</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>3</td>
<td>ISO G parallel</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>1&quot;</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>A</td>
<td></td>
</tr>
</tbody>
</table>

Feedback Pilot Regulator Warning
The feedback line must sense the pilot operated regulator outlet pressure and must be connected before turning on the air supply. If the feedback line is not connected, the pilot operated regulator outlet pressure will rapidly increase to the inlet pressure when the adjusting knob on the pilot regulator is turned clockwise.

NOTE: Do not use the R41 feedback pilot regulator to control outlet pressures at or less than 100 psig (7 bar). Use the 11-104 feedback pilot regulator at those pressures.
R18 Service Kits

<table>
<thead>
<tr>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>R18</td>
<td>5945-40</td>
</tr>
</tbody>
</table>

R18 service kit contains filter screen and all o-rings.

R24 Service Kits

<table>
<thead>
<tr>
<th>Item</th>
<th>Port Size</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service kit 1/4&quot;, 3/8&quot;, 1/2&quot;</td>
<td>5292-54</td>
<td></td>
</tr>
<tr>
<td>Service kit 3/4&quot;, 1&quot;, 1-1/4&quot;</td>
<td>5292-55</td>
<td></td>
</tr>
</tbody>
</table>

Service kits include seats, main valve and spring.

Typical Installation

Feedback Pilot and Pilot Operated Regulator

Conventional Pilot and Pilot Operated Regulator

Pilot Operated Regulators

R18 and R24

Typical Performance Characteristics

Dimensions in inches (mm)

R18

FLOW CHARACTERISTICS

R24

FLOW CHARACTERISTICS WITH CONVENTIONAL PILOT

RELIEF FLOW CHARACTERISTICS

AIR FLOW

RELIEF CHARACTERISTICS
Excelon® R72M and R74M
Manifold Regulator
1/4", 3/8", 1/2" and 3/4" port sizes

Excelon® design allows in-line or modular installation
Manifold typically up to six regulators without booster signal
RoHS compliant

Technical data
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

R72M
Maximum pressure:
300 psig (20 bar)
Operating temperature*:
-30° to 150°F (-34° to 65°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Ports:
Inlet ports (2):
1/4" or 3/8" PTF or ISO G
Outlet port (1):
1/4" PTF with PTF inlet ports, or
1/4" ISO Rc with ISO G inlet ports
Gauge port (1):
1/8" PTF with PTF inlet ports
1/8" ISO Rc with ISO G inlet ports

Materials
Body: Zinc
Bonnet: Acetal
(Zinc on 250 psi (17 bar) T-handle version)
Elastomers: Nitrile
Bottom plug: Acetal

R74M
Maximum pressure:
300 psig (20 bar)
Operating temperature*:
R74M: -30° to 175°F (-34° to 80°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Ports:
Inlet ports (2):
1/2" or 3/4" PTF or ISO G
Outlet port (1):
1/2" PTF with PTF inlet ports, or
1/2" ISO Rc with ISO G inlet ports
Gauge port (1):
1/8" PTF with PTF inlet ports
1/8" ISO Rc with ISO G inlet ports

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

Typical Manifold Regulator Application (R72M shown)

Ordering Information.
Models listed include PTF threads, knob adjustment, relieving diaphragm, 5 to 150 psig (0.3 to 10 bar) outlet pressure adjustment range* with gauge.

Excelon® R72M and R74M
Manifold Regulator
1/4", 3/8", 1/2" and 3/4" port sizes

Excelon® design allows in-line or modular installation
Manifold typically up to six regulators without booster signal
RoHS compliant

Technical data
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

R72M
Maximum pressure:
300 psig (20 bar)
Operating temperature*:
-30° to 150°F (-34° to 65°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Ports:
Inlet ports (2):
1/4" or 3/8" PTF or ISO G
Outlet port (1):
1/4" PTF with PTF inlet ports, or
1/4" ISO Rc with ISO G inlet ports
Gauge port (1):
1/8" PTF with PTF inlet ports
1/8" ISO Rc with ISO G inlet ports

Materials
Body: Zinc
Bonnet: Acetal
(Zinc on 250 psi (17 bar) T-handle version)
Elastomers: Nitrile
Bottom plug: Acetal

R74M
Maximum pressure:
300 psig (20 bar)
Operating temperature*:
R74M: -30° to 175°F (-34° to 80°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Ports:
Inlet ports (2):
1/2" or 3/4" PTF or ISO G
Outlet port (1):
1/2" PTF with PTF inlet ports, or
1/2" ISO Rc with ISO G inlet ports
Gauge port (1):
1/8" PTF with PTF inlet ports
1/8" ISO Rc with ISO G inlet ports

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

Typical Manifold Regulator Application (R72M shown)
R72M and R74M Manifold Regulators

### Accessories

<table>
<thead>
<tr>
<th>Wall mounting bracket*</th>
<th>Neck mounting bracket</th>
<th>Gauge 0...160 psig</th>
<th>Panel nut</th>
<th>Tamper resistant cover and seal wire</th>
<th>Pipe adapters (quantity of 1) (NPT)</th>
<th>Quikclamp®</th>
<th>Quikclamp® and wall bracket</th>
<th>Service kit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4315-03 (1/2)</td>
<td></td>
<td></td>
<td>4315-04 (3/4)</td>
</tr>
</tbody>
</table>

* Bracket kit does not include wall mounting screws.

### Typical Performance Characteristics

#### R72M Flow Characteristics

<table>
<thead>
<tr>
<th>PORT SIZE: 3/8”</th>
<th>INLET PRESSURE: 150 psig (10 bar g)</th>
<th>RANGE: 5 to 150 psig (0.3 to 10 bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR FLOW</td>
<td>OUTLET PRESSURE</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>80</td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>100</td>
<td></td>
</tr>
</tbody>
</table>

#### R74M Flow Characteristics

<table>
<thead>
<tr>
<th>PORT SIZE: 1/2”</th>
<th>INLET PRESSURE: 150 psig (10 bar g)</th>
<th>RANGE: 5 to 150 psig (0.3 to 10 bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR FLOW</td>
<td>OUTLET PRESSURE</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>80</td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>100</td>
<td></td>
</tr>
</tbody>
</table>

### Dimensions in inches (mm)

#### Wall Mounting Bracket

- **Series A**: 2.36, 1.65, 1.54, 0.73, 0.16, 1.50, 0.24, 2.01
- **Series B**: 3.11, 2.72, 1.37, 0.79, 0.26, 2.01, 0.24, 2.40

#### Neck Mounting Bracket

- **Series J**: 0.31, 1.93, 1.50, 2.50, 1.18, 0.94, 0.17, 0.31, 0.59
- **Series K**: 0.84, 3.50, 2.09, 3.39, 2.20, 1.36, 0.91, 0.28
- **Series L**: 0.84, 3.50, 2.09, 3.39, 2.20, 1.36, 0.91, 0.28
- **Series M**: 0.84, 3.50, 2.09, 3.39, 2.20, 1.36, 0.91, 0.28
- **Series N**: 0.84, 3.50, 2.09, 3.39, 2.20, 1.36, 0.91, 0.28
- **Series P**: 0.84, 3.50, 2.09, 3.39, 2.20, 1.36, 0.91, 0.28
- **Series Q**: 0.84, 3.50, 2.09, 3.39, 2.20, 1.36, 0.91, 0.28
- **Series R**: 0.84, 3.50, 2.09, 3.39, 2.20, 1.36, 0.91, 0.28
- **Series S**: 0.84, 3.50, 2.09, 3.39, 2.20, 1.36, 0.91, 0.28
- **Series T**: 0.84, 3.50, 2.09, 3.39, 2.20, 1.36, 0.91, 0.28
- **Series U**: 0.84, 3.50, 2.09, 3.39, 2.20, 1.36, 0.91, 0.28
- **Series V**: 0.84, 3.50, 2.09, 3.39, 2.20, 1.36, 0.91, 0.28

### Dimensions

**72 Series 250 psi version with Zinc bonnet and T-handle.**
R30M Series Manifold Regulator
8 mm and 10 mm Port Sizes

Push-in fittings in ports. No need for threaded connectors and fittings
Integral base mounting
Water or compressed air only

Technical data
Fluid:
Compressed air or water, neutral gases
NOTE: Contact Norgren for use with other media.
Maximum pressure:
150 psig (10 bar)
Operating temperature*:
23° to 104°F (-5° to 40°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Gauge port:
(can be used as additional outlet port) 10 mm OD tube with 10 mm OD tube main ports: 8 mm OD tube with 8 mm OD tube main ports
Two inlet ports: 10 mm OD tube or 8 mm o/d tube
One outlet port: 10 mm OD tube with 10 mm OD tube inlet
8 mm OD tube with 8 mm OD tube inlet

Materials:
Body: Acetal
Bonnet: Acetal
Valve: Brass/nitrile
Elastomers: Nitrile
Valve seat: Acetal

Ordering Information.
Models listed include 10 mm push-in fittings, knob adjustment, relieving diaphragm, 0 to 70 psig (0 to 4.8 bar) outlet pressure adjustment range* with gauge, with porting plug.

<table>
<thead>
<tr>
<th>Port</th>
<th>Model</th>
<th>Flow† scfm (dm3/s)</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 mm</td>
<td>R30M 8DK RG17 (8)</td>
<td>0.22 (0.10)</td>
<td></td>
</tr>
<tr>
<td>10 mm</td>
<td>R30M ADK RG17 (8)</td>
<td>0.22 (0.10)</td>
<td></td>
</tr>
</tbody>
</table>

† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.
R30M Series Manifold Regulator
8 mm and 10 mm Port Sizes

Panel mounting hole diameter: 1.19" (30 mm)
Maximum panel thickness: 0.25" (6 mm)

Dimensions in inches (mm)

Flow Characteristics (Air)

<table>
<thead>
<tr>
<th>AIR FLOW (dm^3/s)</th>
<th>PRESSURE OUTLET (psig)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>20</td>
</tr>
<tr>
<td>8</td>
<td>40</td>
</tr>
<tr>
<td>12</td>
<td>60</td>
</tr>
<tr>
<td>16</td>
<td>80</td>
</tr>
<tr>
<td>20</td>
<td>100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AIR FLOW (scfm)</th>
<th>PRESSURE OUTLET (psig)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>8</td>
<td>20</td>
</tr>
<tr>
<td>16</td>
<td>40</td>
</tr>
<tr>
<td>24</td>
<td>60</td>
</tr>
<tr>
<td>32</td>
<td>80</td>
</tr>
<tr>
<td>40</td>
<td>100</td>
</tr>
</tbody>
</table>

Flow Rate at Various Pressures

Port Size: 10 mm
Inlet Pressure: 150 psig (10 bar g)
Range: 5 to 100 psig (0.3 to 7 bar)

Typical Manifold Regulator Application

Boosters signal

Pressure in
**Stainless Steel Products**

**R05, and B05**

Designed for use in corrosive environments

Metallic parts meet NACE Standard MR-01-75*

* National Association of Corrosion Engineers (NACE) MR-01-75 defines requirements for sulphide stress cracking resistant materials used in well-head and other corrosive environments.

**Technical data**

**R05**

Fluid: Compressed air, neutral gases

**NOTE:** Contact Norgren for use with other media.

Maximum pressure: 300 psig (20 bar)

Operating temperature:

With Acetal bonnet

-13° to 150°F (-25°C to 66°C)*

With metal bonnet

-13°F to 175°F (-25°C to 80°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C). Contact Norgren for use below -13°F (-25°C).

**NOTE:** Low temperature options available to -40°F (-40°C).

**B05**

Fluid: Compressed air

Maximum pressure: 300 psig (20 bar)

Operating temperature:

With Acetal bonnet

-13° to 150°F (-25°C to 66°C)*

With metal bonnet

-13°F to 175°F (-25°C to 80°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C). Contact Norgren for use below -13°F (-25°C).

**NOTE:** Low temperature options available to -40°F (-40°C).

**Particle removal:**

5 µm or 40 µm filter element

**Materials**

**R05**

Body: 316 stainless steel

Bonnet: 316 Stainless steel with T-handle or Acetal with stainless steel adjusting screw

Valve: 316 Stainless steel with fluorocarbon elastomer

Valve seat: Acetal

Springs: 302 Stainless steel

Elastomers: Fluorocarbon

**B05**

Body and bowl: 316 stainless steel

Bonnet: 316 Stainless steel with T-handle or Acetal with stainless steel adjusting screw

Valve: 316 Stainless steel with fluorocarbon elastomer

Valve seat: Acetal

Springs: 302 Stainless steel

Drain: Stainless steel or Acetal

Element: Sintered polypropylene

Elastomers: Fluorocarbon

**Autodrain:** Nitrile

---

**R05 Ordering Information**

Standard models listed are relieving type with 5 to 125 psig (0.3 to 8.5 bar) outlet pressure adjustment range* and PTF threads. A gauge is not included.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Bonnet type</th>
<th>Flow** scfm (dm3/s)</th>
<th>Weight lb (kg)</th>
<th>Service kit†</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; PTF</td>
<td>R05-200-RNLA</td>
<td>Acetal</td>
<td>15 (7)</td>
<td>0.32 (0.15)</td>
<td>3407-71</td>
</tr>
<tr>
<td>1/4&quot; PTF</td>
<td>R05-232-RNLA</td>
<td>Stainless steel w/ T-handle</td>
<td>15 (7)</td>
<td>0.58 (0.26)</td>
<td>3407-71</td>
</tr>
</tbody>
</table>

**B05 Ordering Information**

Standard models listed include a relieving diaphragm, manual drain, 5 µm element, 5 to 125 psig (0.3 to 8.5 bar) outlet pressure adjustment range* and PTF threads. A gauge is not included.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Bonnet type</th>
<th>Drain type (material)</th>
<th>Flow** scfm (dm3/s)</th>
<th>Weight lb (kg)</th>
<th>Service kit†</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; PTF</td>
<td>B05-233-M1LA</td>
<td>Acetal</td>
<td>manual (Acetal)</td>
<td>15 (7)</td>
<td>0.85 (0.38)</td>
<td>3820-08</td>
</tr>
<tr>
<td>1/4&quot; PTF</td>
<td>B05-238-M1LA</td>
<td>Stainless steel w/ T-handle</td>
<td>manual (SS)</td>
<td>15 (7)</td>
<td>1.20 (0.54)</td>
<td>3820-08</td>
</tr>
<tr>
<td>1/4&quot; PTF</td>
<td>B05-233-A1LA</td>
<td>Acetal</td>
<td>automatic (SS)</td>
<td>15 (7)</td>
<td>0.85 (0.38)</td>
<td>3820-08</td>
</tr>
</tbody>
</table>

* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

** Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from set.

† Service kit includes diaphragm, seals, o-rings, and valve

**Additional Options††**

<table>
<thead>
<tr>
<th>Bonnet</th>
<th>Substitute</th>
<th>Diaphragm Substitute</th>
<th>Outlet Pressure Adjustment Ranges*</th>
<th>Threads Substitute</th>
<th>Element Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard knob (Acetal)</td>
<td>00</td>
<td></td>
<td></td>
<td>PTF</td>
<td>5 µm</td>
</tr>
<tr>
<td>T-handle (Stainless steel)</td>
<td>32</td>
<td></td>
<td></td>
<td></td>
<td>40 µm</td>
</tr>
</tbody>
</table>

†† These options may require minimum order quantities and may have longer lead times.

† Options 38 and 41 have stainless steel manual drains as standard.
Stainless Steel Products

R05, and B05

Dimensions in inches (mm)

**Stainless Steel Filter/Regulator**

**INLET PRESSURE** - 150 psig (12 bar g)

**UNIT CAST** - 1 - PORT SIZE: 1/4"

**AIR FLOW**

0 4 8 12 16 20 dm³/s

**AIR FLOW**

0 8 16 24 32 40 48 scfm

**SECONDARY PRESSURE**

0 2 4 6 8 bar g

0 100 80 60 40 20 0 psig

120

**Accessories**

- Panel nut (Acetal)
- Gauge (Stainless steel) 0 ... 140 psig

**ISO Symbols**

- R05 Relieving
- B05 Manual Drain, Relieving

**Manual drain**

*Minimum distance to remove bowl

**Auto drain**

**Stainless steel Manual drain**

**Stainless Steel Regulator**

**INLET PRESSURE** - 150 psig (12 bar g)

**UNIT CAST** - 1 - PORT SIZE: 1/4"

**AIR FLOW**

0 4 8 12 16 20 dm³/s

**AIR FLOW**

0 8 16 24 32 40 48 scfm

**SECONDARY PRESSURE**

0 2 4 6 8 bar g

0 100 80 60 40 20 0 psig

120

**Accessories**

- Panel nut (Acetal)
- Gauge (Stainless steel) 0 ... 140 psig

**ISO Symbols**

- R05 Relieving
- B05 Manual Drain, Relieving

**Manual drain**

*Minimum distance to remove bowl

**Auto drain**

**Stainless steel Manual drain**

**Stainless Steel Products**

R05, and B05

Dimensions in inches (mm)
Stainless Steel Products

R38, and B38

Designed for use in corrosive environments
Metallic parts meet NACE Standard MR-01-75*

* National Association of Corrosion Engineers (NACE) MR-01-75 defines requirements for sulfide stress cracking resistant materials used in well-head and other corrosive environments.

Technical data

R38
Fluid:
Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:
450 psig (31 bar)

Operating temperature:
-40° to 175°F (-40° to 80°C) *

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

B38
Fluid:
Compressed air

Maximum pressure:
Manual drain: 450 psig (31 bar)
Automatic drain: 250 psig (17 bar)

Operating temperature:
-40° to 175°F (-40° to 80°C) *

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

Particle removal:
5 µm or filter element

Materials

R38
Body: Stainless steel
Bonnet: Stainless steel
Adjusting screw: Stainless steel
Elastomeric materials: Nitrile

B38 (standard option)
Body: Stainless steel
Bonnet: Stainless steel
Bowl: Stainless steel
Adjusting screw: Stainless steel
Elements
5 µm: High density polyethylene
1/4" only 5 µm: Ceramic pyrolith
Elastomeric materials: Nitrile

R38 Ordering Information
Models listed are relieving type with 0.6 to 30 psig (0.04 to 2 bar) outlet pressure adjustment range **, and PTF threads. A gauge is not included.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Number</th>
<th>Flow† scfm (dm³/s)</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; PTF</td>
<td>R38-240-RNCA</td>
<td>17 (8)</td>
<td>1.56 (0.71)</td>
</tr>
</tbody>
</table>

** Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

† Typical flow with 100 psig (7 bar) inlet pressure, 15 psig (1 bar) set pressure and 1 psig (0.05 bar) droop from set.

B38 Ordering Information
Models listed are relieving type with manual drain, 5µm element, and PTF threads. A gauge is not included.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Number</th>
<th>Outlet pressure range psig (bar)</th>
<th>Flow** scfm (dm³/s)</th>
<th>Weight kg (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; PTF</td>
<td>B38-240-B1KA</td>
<td>4 to 100 (0.3 to 7)</td>
<td>15 (7)</td>
<td>3.11 (1.4)</td>
</tr>
<tr>
<td>1/2&quot; PTF</td>
<td>B38-440-M1LA</td>
<td>4 to 125 (0.3 to 9)</td>
<td>106 (50)</td>
<td>4.75 (2.2)</td>
</tr>
</tbody>
</table>

** Typical flow with 175 psig (12 bar) inlet pressure, 115 psig (8 bar) set pressure and 15 psig (1 bar) droop from set.

Accessories

Neck mounting bracket
18-001-959

18-013-909

* Bracket kit does not include wall mounting screws.

ISO Symbols

R38

B38 Manual Drain, Relieving

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Stainless Steel Products

R38, and B38

Dimensions in inches (mm)

Panel mounting hole diameter: 1.65" (42 mm)
Maximum panel thickness: 0.24" (6 mm)

Panel mounting hole diameter: 1.65" (42 mm)
Maximum panel thickness: 0.24" (6 mm)

** Minimum clearance required to remove bowl.
Stainless Steel Products
F22, R22, L22

ISO Symbols

F22 Automatic Drain
R22 Relieving
L22 No Drain

Designed for use in corrosive environments
Metallic parts meet NACE Standard MR-01-75*
* National Association of Corrosion Engineers (NACE) MR-01-75 defines requirements for sulfide stress cracking resistant

Technical data
F22
Fluid: Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum pressure: 250 psig (17 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).

Particle removal: 5 µm optional
Air quality: Within ISO 8573-1, Class 3 and Class 5 (particulates)

R22
Fluid: Compressed air
Maximum pressure: 290 psig (20 bar)
Operating temperature: -4° to 175°F (-20° to 80°C)*
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

L22
Fluid: Compressed air
Maximum pressure: 250 psig (17 bar)
Operating temperature: -4° to 175°F (-20° to 80°C)*
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Filters
Model listed has PTF threads, automatic drain, and 25 µm element.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Number</th>
<th>Flow† scfm (dm3/s)</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 PTF</td>
<td>F22-405-A20A</td>
<td>98 (46)</td>
<td>4.18 (1.88)</td>
</tr>
</tbody>
</table>

† Typical flow with element at 90 psig (6.3 bar) inlet pressure, and 5 psig (0.35 bar) pressure drop.

Regulators
Models listed have T-handle adjustment, relieving diaphragm, 5 to 150 psig (0.4 to 10 bar) outlet pressure adjustment range and PTF threads. A gauge is not included.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Number</th>
<th>Flow** scfm (dm3/s)</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 PTF</td>
<td>R22-401-RNMA (T-handle adjustment)</td>
<td>106 (50)</td>
<td>3.35 (1.52)</td>
</tr>
<tr>
<td>1/2 PTF</td>
<td>R22-405-RNMA (handwheel adjustment)</td>
<td>106 (50)</td>
<td>3.35 (1.52)</td>
</tr>
</tbody>
</table>

** Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3) set pressure, and a 15 psig (1 bar) droop from set.

Lubricators
Model listed is oil-fog unit with closed bowl (no drain) and PTF threads.

<table>
<thead>
<tr>
<th>Type</th>
<th>Model Number</th>
<th>Flow scfm (dm3/s)</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil-Fog</td>
<td>L22-405-OP8A</td>
<td>102 scfm (48 dm3/s)</td>
<td>4.29 (1.93)</td>
</tr>
</tbody>
</table>

† Typical flow with 90 psig (6.3 bar) inlet pressure and 7 psig (0.5 bar) pressure drop.

Materials
F22
Body: Stainless steel
Bowl: Stainless steel
Element: Sintered stainless steel
Elastomers: Nitrile
R22
Body: Stainless steel
Bonnet: Stainless steel
Adjusting screw: Stainless steel
Handwheel: Stainless steel, acetal
Elastomers: Nitrile
L22
Body: Stainless steel
Bowl: Stainless steel
Elastomers: Nitrile

Accessories
Neck mounting bracket
Wall mounting bracket
Gauge 0 ... 140 psig

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>18-001-959</td>
<td>18-001-962</td>
</tr>
</tbody>
</table>

* Bracket kit does not include wall mounting screws.
Stainless Steel Products

F22, R22, L22

Dimensions in inches (mm)

**Minimum clearance required to remove bowl.**

Panel mounting hole diameter: 1.65" (42 mm)
Maximum Panel thickness: 0.37" (9.5 mm)

** Minimum clearance required to remove bowl.
R06 Miniature Brass Water/Air Regulator

1/8" and 1/4" PTF Port Sizes

Compact design, corrosion resistant construction
Brass body with choice of plastic or brass bonnet
Brass bonnet equipped with pressure adjusting screw
Non-relieving models for water and air service

Technical data
Fluid:
Water and compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum pressure:
400 psig (27 bar)

Operating temperature
Water service: 35°F to 150°F (2° to 65°C)†
Air service: -30°F to 150°F (-34° to 65°C) ‡
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Typical flow for water service at 100 psig (7 bar) inlet pressure, 60 psig (4 bar) set pressure and a droop of 15 psig (1 bar) from set: 1.3 gpm (4.9 lpm)

Typical flow for compressed air service at 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set: 12 scfm (5.7 dm3/s)

Gauge ports:
1/8" PTF

Materials
Body: Brass
Bonnet
Standard: Acetal resin
Optional: Brass
Valve: Brass/nitrile
Valve seat: Acetal resin
Elastomers: Nitrile

Ordering Information
Models listed have PTF threads, non-relieving diaphragm, and no gauge.

<table>
<thead>
<tr>
<th>Port</th>
<th>Model</th>
<th>Flow* scfm (dm3/s)</th>
<th>Flow** gpm (lpm)</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot; PTF</td>
<td>R06 121 NNKA</td>
<td>12 (5.7)</td>
<td>1.3 (4.9)</td>
<td>0.2 (0.09)</td>
</tr>
<tr>
<td>1/4&quot; PTF</td>
<td>R06 221 NNKA</td>
<td>12 (5.7)</td>
<td>1.3 (4.9)</td>
<td>0.2 (0.09)</td>
</tr>
</tbody>
</table>

* Approximate flow with 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.
** Approximate flow with 100 psig (7 bar) inlet pressure, 60 psig (4 bar) set pressure and a 15 psig (1 bar) droop from set.

Alternative Models

ISO Symbols

Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.
R06 Miniature Brass Body Regulator

Water and Compressed Air Service

1/8" and 1/4" PTF Port Sizes

Dimensions in inches (mm).

Panel mounting hole diameter:
- Models with plastic bonnet: 1.19" (30 mm)
- Models with brass bonnet: 0.81" (21mm)
- Maximum panel thickness: 0.25" (6 mm)

Typical Performance Characteristics

<table>
<thead>
<tr>
<th>AIR FLOW CHARACTERISTICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PORT SIZE: 1/8&quot;</td>
</tr>
<tr>
<td>SPRING RANGE: 5 to 100 psig (0.3 to 7 bar)</td>
</tr>
<tr>
<td>INLET PRESSURE: 100 psig (7 bar)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OUTLET PRESSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>bar</td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WATER FLOW CHARACTERISTICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PORT SIZE 1/8&quot;</td>
</tr>
<tr>
<td>SPRING RANGE: 5 to 100 psig (0.3 to 7 bar)</td>
</tr>
<tr>
<td>INLET PRESSURE: 100 psig (7 bar)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OUTLET PRESSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>bar</td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WATER FLOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>litres/min</td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WATER FLOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>US gal./min</td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WATER FLOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>litres/min</td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AIR FLOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>dm³/s</td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AIR FLOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>scfm</td>
</tr>
<tr>
<td>0</td>
</tr>
</tbody>
</table>

Service Kits

<table>
<thead>
<tr>
<th>Item</th>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Kit</td>
<td>Relieving</td>
<td>3407-18</td>
</tr>
<tr>
<td></td>
<td>Non relieving</td>
<td>3407-17</td>
</tr>
</tbody>
</table>

Service kit includes slip ring, diaphragm, standard valve seat with o-ring, valve, valve spring.

† Brass bonnet & body combination max temperature 200°F
R14, R16 Miniature, Preset, Nonadjustable Pressure Regulator

Water and Compressed Air Service

1/8" or 1/4" PTF Port Sizes

Non-relieving models for air and water service
Relieving models for air service allow reduction of outlet pressure even when the system is dead-ended
R14 has aluminum body and bonnet
R16 has brass body and bonnet
Factory preset, tamper resistant pressure setting

Technical data

Fluid
R14: Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.
R16: Water and compressed air

Maximum pressure:
400 psig (27 bar)

Operating temperature
Water service: 35° to 175°F (2° to 79°C)†
Air service: -30° to 175°F (-34° to 79°C)*
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).
† R16 brass bonnet & body combination max temp. 200°F.

Type
R14: Piston, relieving or non-relieving
R16: Diaphragm, relieving or non-relieving

Gauge ports:
1/8" PTF

Factory preset outlet pressure settings:
3 to 99 psig (0.2 to 6.8 bar)

Outlet pressure tolerance:
Type/Service Substitute
Piston; air service only 14
Diaphragm; air and water service 16

Gauge ports in body Substitute
With gauge ports 00
Without gauge ports 01

Diaphragm Substitute
Relieving R
Non relieving N

Ordering Information.

Models listed are relieving type for compressed air service with PTF threads and with gauge ports

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Flow† scfm (dm3/s)</th>
<th>Flow†† U.S. gpm (lpm)</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot; PTF</td>
<td>R14 100 R**A</td>
<td>12 (5.7)</td>
<td>1.3 (4.9)</td>
<td>0.2 (0.09)</td>
</tr>
<tr>
<td>1/8&quot; PTF</td>
<td>R16 100 R**A</td>
<td>12 (5.7)</td>
<td>1.3 (4.9)</td>
<td>0.7 (0.32)</td>
</tr>
<tr>
<td>1/4&quot; PTF</td>
<td>R14 200 R**A</td>
<td>12 (5.7)</td>
<td>1.3 (4.9)</td>
<td>0.2 (0.09)</td>
</tr>
<tr>
<td>1/4&quot; PTF</td>
<td>R16 200 R**A</td>
<td>12 (5.7)</td>
<td>1.3 (4.9)</td>
<td>0.7 (0.32)</td>
</tr>
</tbody>
</table>

† Approximate flow with 100 psig (7 bar) inlet pressure, 80 psig (5.5 bar) set pressure and a 15 psig (1 bar) droop from set.
†† Approximate flow with 100 psig (7 bar) inlet pressure, 50 psig (4 bar) set pressure and a 15 psig (1 bar) droop from set.

Alternative Models

Type/Service Substitute
Piston; air service only 14
Diaphragm; air and water service 16

Port Size Substitute
1/8" 1
1/4" 2

Gauge ports in body Substitute
With gauge ports 00
Without gauge ports 01

Diaphragm Substitute
Relieving R
Non relieving N

ISO Symbols

Relieving
Non relieving

Threads Substitute
PTF A

** The 8th and 9th positions of the model number contain the Modified Outlet Pressure Setting. The Modified Outlet Pressure Setting is the desired outlet pressure, modified to allow for inlet pressures other than 100 psig, and for flows other than zero. Insert the modified outlet pressure setting in positions 8 and 9 as described below.

1. Write down the desired outlet pressure and the flow through the regulator. EXAMPLE: 30 psig outlet pressure at 10 scfm flow.
2. Modifications for inlet pressures other than 100 psig: If inlet pressure exceeds 100 psig*, add 1 psig to the desired outlet pressure for each 20 psig the inlet pressure is above 100 psig*. EXAMPLE: If the inlet pressure is 180 psig, add 4 to the desired outlet pressure. Following through with the example in step 1, add 4 to 30 for a modified outlet pressure setting of 34 psig. If inlet pressure is less than 100 psig*, subtract 1 psig from the desired outlet pressure for each 20 psig the inlet pressure is below 100 psig*. EXAMPLE: If the inlet pressure is 60 psig, subtract 2 from the desired outlet pressure. Following through with the example in step 1, subtract 2 from 30 for a modified outlet pressure setting of 28 psig.
3. Modifications for flows other than zero: Determine the pressure drop from the appropriate flow curve above. Add the pressure drop to the modified outlet pressure setting. EXAMPLE: If the desired outlet pressure is 30 psig at a flow of 10 scfm, add 10 to the modified outlet pressure setting. The quantity of 10 is the difference between the outlet pressure (30 psig) at the desired flow (10 scfm) and outlet pressure (40 psig) at no flow. See dashed lines on the air flow curve for example. Following through with the first example in Step 2 above, add 10 to the 34 to obtain a modified outlet pressure setting of 44. Enter 44 in the 8th and 9th positions of the model number.

* 125 psig for outlet pressure settings of 95 through 99 psig.
R14, R16 Miniature, Preset, Nonadjustable Pressure Regulator

Water and Compressed Air Service

1/8" or 1/4" PTF Port Sizes

**Typical Performance Characteristics**

**AIR FLOW CHARACTERISTICS**

- **Port Size:** 1/8", 1/4"
- **Inlet Pressure:** 100 psig (7 bar)

**WATER FLOW CHARACTERISTICS**

- **Port Size:** 1/8", 1/4"
- **Inlet Pressure:** 100 psig (7 bar)

Dimensions in inches (mm)
11 044 Pressure Regulator

Water and Compressed Air Service
1/4" Tube connection

Non-relieving models.
Acetal plastic, corrosion resistant construction
Low torque, non-rising adjusting knob.
Designed for use with deionized water and potable water systems. Plastic (not assembly) is NSF approved. All elastomers are CFR 21 FDA food and water contact compliant. Non-relieving models only.

Technical data

Fluid:
Water and compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum pressure:
250 psig (17 bar)

Operating temperature:
Water service: 35° to 150°F (2° to 66°C)
Air service: -30° to 150°F (-34° to 66°C) *
*When used in air service, air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Port connections:
1/4" OD tube (brass nut and plastic ferrule supplied)
Recommended tubing: 1/4" soft PVC or Polyethylene tubing. Avoid aluminum, copper, and hard plastic tubing.

Typical flow:
Compressed air service at 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set: 3.0 scfm (1.4 dm³/s)
Water service at 100 psig (7 bar) inlet pressure, 60 psig (4 bar) set pressure and a droop of 15 psig (1 bar) from set: 0.7 U.S. gpm (2.65 liters per minute)

No gauge ports

Materials
Body: Acetal
Bonnet: Acetal
Valve: Stainless steel with EPDM seal (CFR21 FDA food and water contact compliant)
Valve seat: Acetal
Diaphragm: Stainless steel and nitrile (CFR21 FDA food and water contact compliant)

Ordering Information

Model listed has non-relieving diaphragm, and 5 to 100 psig (0.3 to 7 bar) outlet pressure adjustment range.†

<table>
<thead>
<tr>
<th>Port Connection</th>
<th>Model</th>
<th>Flow* scfm (dm³/s)</th>
<th>Flow** U.S. gpm (lpm)</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; tube nut and ferrule</td>
<td>11 044 003</td>
<td>3.0 (1.4)</td>
<td>0.7 (2.65)</td>
<td>0.16 (0.08)</td>
</tr>
</tbody>
</table>

For additional models contact the factory.
* Approximate flow with 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) drop from set.
* Approximate flow with 100 psig (7 bar) inlet pressure, 60 psig (4 bar) set pressure and a 15 psig (1 bar) drop from set.
† Outlet pressure can be adjusted to pressures in excess, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.
11 044 Pressure Regulator
Water and Compressed Air Service
1/4" Tube connection

Panel mounting hole diameter: 1.19" (30 mm)
Maximum panel thickness: 0.25" (6 mm)

Dimensions in inches (mm)

Service Kits

<table>
<thead>
<tr>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-relieving</td>
<td>3407-59</td>
</tr>
</tbody>
</table>

Service kit includes slip ring, valve seat, valve, valve spring, and diaphragm.
R91 Water or Compressed Air Pressure Regulator

Regulator 1/4" Port Size

R91W: Use with deionized water and potable water systems. Plastic (not assembly) is NSF approved. All elastomers are CFR 21 FDA food and water contact compliant. Non relieving models only.

R91G: Use with non-potable water (non-relieving only) and compressed air systems (Non relieving and relieving models.)

Technical data
Fluid
R91G: Compressed air and non-potable water, neutral gases
R91W: Potable water, deionized water

NOTE: Contact Norgren for use with other media.

Maximum pressure:
150 psig (10 bar)

Operating temperature
Water service: 35° to 125°F (2° to 52°C)
Air service: 0° to 125°F (-20° to 52°C)*
* When used in air service, air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Gauge ports:
1/8 PTF with PTF main ports
R1/8 with ISO Rc main ports
R1/8 with ISO G main ports

Materials
Body and bonnet: Acetal
Valve
R91G: Brass/nitrile
R91W: Stainless steel/food grade EPDM
Valve seat: Acetal
Valve seat o-ring
R91G: Nitrile
R91W: Food grade EPDM

Diaphragm
R91G: Acetal/nylon inserted nitrile
R91W: Acetal/nylon inserted nitrile, food grade

Gauge port plugs: Nylon for NPT
Brass for ISO G & Rc (furnished only with PTF-ported units)

Ordering Information
Models listed include PTF threads, knob adjustment, non relieving diaphragm, 5 to 125 psig (0.3 to 8.6 bar) outlet pressure adjustment range†, and without gauge.

<table>
<thead>
<tr>
<th>Inlet Port</th>
<th>Application</th>
<th>Model</th>
<th>Flow* scfm (dm3/s)</th>
<th>Flow** gpm (lpm)</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>Industrial air and non-potable water</td>
<td>R91G 2AK NLN 24 (11)</td>
<td>1.75 (6.6)</td>
<td>0.15 (0.07)</td>
<td></td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>Potable water and deionized water</td>
<td>R91W 2AK NLN 24 (11)</td>
<td>1.75 (6.6)</td>
<td>0.15 (0.07)</td>
<td></td>
</tr>
</tbody>
</table>

* Typical flow for compressed air service at 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set.
** Typical flow for water service at 100 psig (7 bar) inlet pressure, 60 psig (4 bar) set pressure and a droop of 15 psig (1 bar) from set.
R91 Water or Compressed Air Pressure Regulator
Regulator 1/4" Port Size

Panel mounting hole diameter 1.19" (30 mm)
Maximum panel thickness 0.25" (6 mm)

Dimensions in inches (mm)

Typical Performance Characteristics

**AIR FLOW CHARACTERISTICS**
- **PORT SIZE:** 1/4"
- **SPRING RANGE:** 5 to 125 psig (0.3 to 8.6 bar)
- **INLET PRESSURE:** 150 psig (10 bar)

**WATER FLOW CHARACTERISTICS**
- **PORT SIZE:** 1/4"
- **SPRING RANGE:** 5 to 50 psig (0.3 to 3.5 bar)
- **INLET PRESSURE:** 100 psig (7 bar)

Service Kits

<table>
<thead>
<tr>
<th>Item</th>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Kit</td>
<td>R91W, non relieving</td>
<td>3407-93</td>
</tr>
<tr>
<td></td>
<td>R91G, non relieving</td>
<td>3407-94</td>
</tr>
<tr>
<td></td>
<td>R91G, relieving</td>
<td>3407-95</td>
</tr>
</tbody>
</table>

Service kit contains slip ring, diaphragm, valve seat with o-ring, valve, and valve spring.
Water Regulator
1/4", 3/8" and 1/2" Port Sizes

Non-relieving models
Brass body, corrosion resistant construction
Full flow gauge ports can be used as auxiliary outlets

Technical data
Fluid:
Water and compressed air, neutral gases
NOTE: Contact Norgren for use with other media.
Maximum pressure:
400 psig (27 bar)
Operating temperature:
Water service: 35° to 200°F (2° to 93°C)
Air service: -30° to 200°F (-34° to 93°C)*
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

R43 Gauge ports
1/4" PTF with PTF main ports
1/4" ISO G with ISO G main ports
1/4" ISO Rc with ISO Rc main ports
11-009 Gauge ports:
1/8" PTF with PTF main ports
G1/8 with ISO G main ports
Rc1/4 with ISO Rc main ports

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

R43 Ordering Information
Models listed have T-handle adjustment, 5 to 125 psig (0.3 to 8.5 bar) outlet pressure adjustment range*, and PTF threads. A gauge is not included.

<table>
<thead>
<tr>
<th>Port</th>
<th>Model</th>
<th>Flow† U.S. gpm (lpm)</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>R43 201 NNLA</td>
<td>6 (23)</td>
<td>2.4 (1.09)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>R43 301 NNLA</td>
<td>6 (23)</td>
<td>2.4 (1.09)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>R43 406 NNLA</td>
<td>9 (34)</td>
<td>2.4 (1.09)</td>
</tr>
</tbody>
</table>

† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) drop from set.

11-009 Ordering Information
Models listed have PTF threads, T-bar adjustment, non-relieving diaphragm, and 5 to 125 psig (0.3 to 8.5 bar) outlet pressure adjustment range*. A gauge is not included.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Number</th>
<th>Flow † U.S. gpm (lpm)</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;</td>
<td>11 009 065</td>
<td>27.5 (104)</td>
<td>3.54 (1.60)</td>
</tr>
<tr>
<td>1&quot;</td>
<td>11 009 081</td>
<td>27.5 (104)</td>
<td>3.40 (1.54)</td>
</tr>
</tbody>
</table>

† Typical flow with 100 psig (6.9 bar) inlet pressure, 60 psig (4 bar) set pressure and 15 psig (1 bar) drop from set.

* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

ISO Symbols
R43 Water Pressure Regulator

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

**Typical Performance Characteristics**

**Port Size: 1/4"**
- Spring Range: 5 to 125 psig (0.3 to 8.6 bar)
- Inlet Pressure: 150 psig (10.3 bar)
- Water Flow Characteristics:
  - Water Flow: 0 to 100 US gal/min
  - Water Flow: 0 to 8 litres/min

**Port Size: 1/2"**
- Spring Range: 5 to 125 psig (0.3 to 8.6 bar)
- Inlet Pressure: 150 psig (10.3 bar)
- Water Flow Characteristics:
  - Water Flow: 0 to 100 US gal/min
  - Water Flow: 0 to 8 litres/min

---

**Service Kits**

<table>
<thead>
<tr>
<th>Item</th>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Kit</td>
<td>For 1/4&quot; and 3/8&quot; ported units</td>
<td>5298-03</td>
</tr>
<tr>
<td></td>
<td>For 1/2&quot; ported units</td>
<td>5298-10</td>
</tr>
</tbody>
</table>

Service kit includes diaphragm, o-rings, valve, valve spring.

---

**Panel mounting hole diameter:** 1.89" (48 mm)
**Maximum panel thickness:** 0.19" (5 mm)

**Dimensions in inches (mm)**

<table>
<thead>
<tr>
<th>Port Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;, 3/8&quot;</td>
<td>2.76</td>
<td>1.52</td>
<td>4.86</td>
<td>5.75</td>
<td>1.21</td>
<td>2.31</td>
</tr>
<tr>
<td></td>
<td>(70)</td>
<td>(39)</td>
<td>(124)</td>
<td>(146)</td>
<td>(31)</td>
<td>(59)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>3.34</td>
<td>1.59</td>
<td>5.01</td>
<td>5.98</td>
<td>1.28</td>
<td>2.44</td>
</tr>
<tr>
<td></td>
<td>(85)</td>
<td>(41)</td>
<td>(127)</td>
<td>(150)</td>
<td>(33)</td>
<td>(62)</td>
</tr>
</tbody>
</table>

---

**Dimensions in inches (mm)**

<table>
<thead>
<tr>
<th>Port Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;, 3/8&quot;</td>
<td>2.76</td>
<td>1.52</td>
<td>4.86</td>
<td>5.75</td>
<td>1.21</td>
<td>2.31</td>
</tr>
<tr>
<td></td>
<td>(70)</td>
<td>(39)</td>
<td>(124)</td>
<td>(146)</td>
<td>(31)</td>
<td>(59)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>3.34</td>
<td>1.59</td>
<td>5.01</td>
<td>5.98</td>
<td>1.28</td>
<td>2.44</td>
</tr>
<tr>
<td></td>
<td>(85)</td>
<td>(41)</td>
<td>(127)</td>
<td>(150)</td>
<td>(33)</td>
<td>(62)</td>
</tr>
</tbody>
</table>

---

**Service Kits**

<table>
<thead>
<tr>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-relieving</td>
<td>2436-03</td>
</tr>
</tbody>
</table>

Service kit includes diaphragm, valve seat, valve pin, valve pin gasket, valve, valve spring, and o-rings.
Inline Micro-Fog and Oil Fog Lubricators

L17 Lubricators

All around (360°) visibility of the sight-feed dome simplifies installation and adjustment
Screw-on bowl reduces maintenance time
Can be disassembled without the use of tools or removal from the air line

Technical data

L17
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.
Maximum pressure:
250 psig (17 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).
Start point (minimum flow required for lubricator operation):
8 scfm (3.8 dm³/s) at 90 psig (6.3 bar) inlet pressure
1" ports: 275 scfm (130 dm³/s)
Nominal reservoir size
Standard: 1 quart US (1 liter)
Optional: 2 and 5 gal: Steel**
Manual drain connection on 1 quart reservoir: Will fit 1/8-27 and 1/8-28 pipe thread
Materials
Body: Aluminum
Reservoir:
1 quart US (1 liter): Aluminum
2 and 5 gal: Steel**
Reservoir sight glass: Pyrex
Sight-feed dome
Standard: Transparent nylon
Optional: Pyrex and aluminum
Elastomers: Neoprene and nitrile
** The 2 and 5 gallon (8 and 20 liter) steel reservoirs are ASME rated according to the ASME Pressure Vessel Code, Section VIII

Ordering Information
Models listed have PTF threads.

<table>
<thead>
<tr>
<th>Port Size**</th>
<th>Micro-Fog Models**</th>
<th>Oil-Fog Models*</th>
<th>Flow scfm (dm³/s)†</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;</td>
<td>L17-600-MPDA</td>
<td>L17-600-OPDA</td>
<td>160 (76)</td>
<td>3.73 (1.69)</td>
</tr>
<tr>
<td>1&quot;</td>
<td>L17-800-MPDA</td>
<td>L17-800-OPDA</td>
<td>275 (130)</td>
<td>3.56 (1.62)</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>L17-A00-MPDA</td>
<td>L17-A00-OPDA</td>
<td>275 (130)</td>
<td>4.65 (2.11)</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>L17-B00-MPDA</td>
<td>L17-B00-OPDA</td>
<td>275 (130)</td>
<td>3.87 (1.76)</td>
</tr>
</tbody>
</table>

* Models listed in the order table must not be located downstream of frequently cycling directional control valves. Order the optional bi-directional Oil-Fog Lubricator for use under such conditions.
** Smaller port sizes available upon request.
† Typical flow with 90 psig (6.3 bar) inlet pressure and a pressure drop of 5 psig (0.35 bar).
Inline Micro-Fog and Oil-Fog Lubricators

L17 Micro−Fog

L17 Oil−Fog

1 quart US (1 liter) reservoir
1/4 turn drain

16.9 (429)

10.0 (254) without drain

10.4 (265) with drain

11.9 (429)

2.03" (52 mm)

2.72" (69 mm)

† Minimum clearance required to remove bowl.

<table>
<thead>
<tr>
<th>Reservoir</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 gallon US (8 liter)</td>
<td>21.2 (538)</td>
<td>6.25 (159)</td>
<td>7.44 (189)</td>
</tr>
<tr>
<td>5 gallon US (20 liter)</td>
<td>24.2 (614)</td>
<td>10.3 (260)</td>
<td>11.4 (291)</td>
</tr>
</tbody>
</table>

L17 Service Kits

<table>
<thead>
<tr>
<th>Item</th>
<th>Type</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service kit</td>
<td>Oil-Fog and Micro-Fog</td>
<td>5771-02</td>
</tr>
<tr>
<td>Reservoir sight glass kit</td>
<td>1 quart US (1 liter)</td>
<td>2273-22</td>
</tr>
<tr>
<td></td>
<td>2/5 gallon US (8/20 liter)</td>
<td>2274-01</td>
</tr>
<tr>
<td>Replacement drain</td>
<td>1/4 Turn</td>
<td>619-50</td>
</tr>
</tbody>
</table>

Service kit 5771-02 includes o-rings, seals and gaskets.
Reservoir sight glass kits, include all o-rings, seals, glass, guard, and sight glass hardware.

Norgren.com/usa – 303.794.2611 – help@amer.norgren.com
Inline Oil-Fog Lubricators

10-028, and 10-076 Lubricators
1-1/2” and 2” port sizes

Designed to lubricate a single tool, valve, cylinder, air motor, or other air driven device.

One Oil-Fog lubricator should be provided for each device requiring lubrication

All around (360°) visibility of the sight-feed dome simplifies installation and adjustment

The 2 and 5 U.S. gallon (8 and 20 liter) reservoirs are rated to ASME Pressure Vessel Code, Section VIII

Technical data

10-028
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.

Maximum pressure:
250 psig (17 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).

Start point (minimum flow required for lubricator operation) at 90 psig (6.3 bar) inlet pressure: 103 scfm (49 dm3/s)
Typical flow at 90 psig (6.3 bar) inlet pressure and 5 psig (0.35 bar) pressure drop: 568 scfm (268 dm3/s)

Nominal reservoir sizes:
1 quart (1 liter)
2 U.S. gallon (8 liter)
5 U.S. gallon (20 liter)

Materials
Body: Aluminum
Reservoir: Steel
Reservoir liquid level indicator lens: Pyrex
Sight-feed dome
Standard: Transparent nylon
Optional: Pyrex and aluminum
Elastomers: Neoprene and Nitrile

10-076
Fluid:
Compressed air

Maximum pressure:
250 psig (17 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).

Start point (minimum flow required for lubricator operation) at 90 psig (6.3 bar) inlet pressure: 240 scfm (123 dm3/s)
Typical flow with 90 psig (6.3 bar) inlet pressure and 5 psig (0.35 bar) pressure drop: 1300 scfm (614 dm3/s)

Nominal reservoir sizes:
2 U.S. gallon (8 liter)
5 U.S. gallon (20 liter)

Materials
Body and adapter: Aluminum
Reservoir: Steel
Reservoir liquid level indicator lens: Pyrex
Sight-feed dome
Standard: Transparent nylon
Optional: Pyrex and aluminum
Elastomers: Nitrile

Ordering Information

Models listed have PTF threads.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Reservoir Nominal Size</th>
<th>Reservoir Working Capacity Fluid Ounce (Liter)</th>
<th>Recommended Operating Flow Range scfm (dm3/s)</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-028-045</td>
<td>1 quart (1 liter)**</td>
<td>19 (0.56)</td>
<td>110 to 590 (52 to 278)</td>
<td>5 (0.91)</td>
</tr>
<tr>
<td>10-028-047</td>
<td>2 U.S. gallon (8 liter)</td>
<td>113 (3.34)</td>
<td>110 to 590 (52 to 278)</td>
<td>16 (7.26)</td>
</tr>
<tr>
<td>10-028-048</td>
<td>5 U.S. gallon (20 liter)</td>
<td>316 (9.34)</td>
<td>110 to 590 (52 to 278)</td>
<td>28 (12.70)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Reservoir Nominal Size</th>
<th>Reservoir Working Capacity Fluid Ounce (Liter)</th>
<th>Recommended Operating Flow Range scfm (dm3/s)†</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-076-004</td>
<td>2 U.S. gallon (8 liter)</td>
<td>113 (3.34)</td>
<td>250 to 1000 (118 to 472)</td>
<td>19 (8.6)</td>
</tr>
<tr>
<td>10-076-005</td>
<td>5 U.S. gallon (20 liter)</td>
<td>316 (9.34)</td>
<td>250 to 1000 (118 to 472)</td>
<td>32 (14.5)</td>
</tr>
</tbody>
</table>

* Models listed in the order table must not be located downstream of frequently cycling directional control valves. Order the optional bi-directional Oil-Fog Lubricator for use under such conditions.
** Models with 1 quart reservoirs must not be located downstream of frequently cycling directional control valves. Models with the 2 and 5 gallon reservoirs may be located downstream of frequently cycling directional control valves.
† At 100 psig (6.9 bar) inlet pressure drop of 5 psid (0.35 bar)
Inline Oil-Fog Lubricators

10-028, and 10-076 Lubricators

1-1/2" and 2" port sizes

Dimensions in inches (mm)

10-028

Typical Performance Characteristics

<table>
<thead>
<tr>
<th>Reservoir</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 quart (1 liter)</td>
<td>4.72</td>
<td>4.06</td>
<td>8.27</td>
<td>15</td>
</tr>
<tr>
<td>2 gallon (8 liter)</td>
<td>7.81</td>
<td>7.18</td>
<td>18.34</td>
<td>32</td>
</tr>
<tr>
<td>5 gallon (20 liter)</td>
<td>11.81</td>
<td>11.18</td>
<td>21.59</td>
<td>37</td>
</tr>
</tbody>
</table>

** Minimum flow based on oil drip rate of 5 drops per minute.

B: Maximum flow based on pressure drop of 5 psid (0.35 bar).

Oil: SAE 10

Oil Feed Setting: Maximum

** Optional pyrex sight-feed dome.

† Minimum clearance required to remove bowl.

10-076

Typical Performance Characteristics

<table>
<thead>
<tr>
<th>Reservoir</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 gallon (8 liter)</td>
<td>7.61</td>
<td>7.18</td>
<td>21.53</td>
<td>35</td>
</tr>
<tr>
<td>5 gallon (20 liter)</td>
<td>11.81</td>
<td>11.18</td>
<td>24.76</td>
<td>40</td>
</tr>
</tbody>
</table>

** Optional pyrex sight-feed dome.

† Minimum clearance required to remove bowl.

10-076 Service Kits

<table>
<thead>
<tr>
<th>Item</th>
<th>Type</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid level lens kit</td>
<td>8 and 20 liter reservoir</td>
<td>2274-01</td>
</tr>
<tr>
<td>Replacement drain</td>
<td>Manual petcock</td>
<td>684-01</td>
</tr>
</tbody>
</table>

Reservoir sight glass kits include sight glass, sight glass guards, seals, and hardware.
Pressure Relief Valves
V07, 16-004, and V06

Compact design
V07 helps protect air operated equipment from over pressure by retarding excessive pressure buildup
16-004: Used in low-volume air tanks to retard excessive pressure buildup
V06: Helps protect water systems from excessive pressure buildup by venting water when pressure exceeds setting of the relief valve. Relief valve closes when pressure is reduced to the relief pressure setting.

Technical data
V07
Fluid: Compressed air, neutral gases
Maximum pressure: 300 psig (20 bar)
Operating temperature: -30° to 150°F (-34° to 65°C) *
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
16-004
Fluid: Compressed air
Maximum pressure: 300 psig (20 bar)
Operating temperature*: -30° to 200°F (-34° to 93°C)
Gauge ports: 1/8" PTF

V06
Fluid: Water and compressed air
Maximum pressure: 400 psig (27.6 bar)
Operating temperature: Plastic bonnet: 35° to 150°F (2° to 65°C)
Brass bonnet: 35° to 200°F (2° to 94°C)
Gauge ports: 1/8" PTF

Ordering Information
<table>
<thead>
<tr>
<th>Part Size</th>
<th>Model Number</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;</td>
<td>V07-100-NNKA</td>
<td>0.28 (0.13)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>V07-200-NNKA</td>
<td>0.28 (0.13)</td>
</tr>
<tr>
<td>1/8&quot;</td>
<td>V06-121-NNKA</td>
<td>0.2 (0.09)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>V06-221-NNKA</td>
<td>0.2 (0.09)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Port Size</th>
<th>5 to 25 psig*</th>
<th>25 to 50 psig*</th>
<th>25 to 75 psig*</th>
<th>70 to 150 psig*</th>
<th>125 to 300 psig*</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;</td>
<td>16-004-030</td>
<td>16-004-001</td>
<td>16-004-002</td>
<td>16-004-003</td>
<td>16-004-004</td>
<td>0.11 (0.05)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>16-004-031</td>
<td>16-004-009</td>
<td>16-004-010</td>
<td>16-004-011</td>
<td>16-004-012</td>
<td>0.11 (0.05)</td>
</tr>
</tbody>
</table>

Materials:
V07
Body: Zinc
Bonnet: Acetal
Valve seat: Polyphenylene
Elastomers: Nitrile
16-004
Body, cap, spring rest: Brass
Valve: Brass and nitrile
Regulating spring: Stainless steel
V06
Body: Brass
Bonnet: Standard: Acetal resin
Optional: Brass
Valve seat: Acetal resin
Elastomers: Nitrile

V07 Service Kits
<table>
<thead>
<tr>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diaphragm and valve seat seal</td>
<td>3407-80</td>
</tr>
<tr>
<td>Valve seat and valve seat seal</td>
<td>3439-11</td>
</tr>
<tr>
<td>Diaphragm seat and seal</td>
<td>3407-19</td>
</tr>
</tbody>
</table>

V06 Service Kits
<table>
<thead>
<tr>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valve seat and seal</td>
<td>3439-11</td>
</tr>
<tr>
<td>Diaphragm</td>
<td>3440-03</td>
</tr>
</tbody>
</table>

ISO Symbols

Contact Norgren for use with other media.

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

* Temperature ranges. Relief valves can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.
Maximum panel thickness: 0.25” (6 mm)
Panel mounting hole diameter: 1.19” (30 mm)
Maximum panel thickness: 0.25” (6 mm)

16-004
0.79 (20) Dia.

A: 1.56 (62) for 1/8” pipe size
1.75 (44) for 1/4” pipe size

V06
1.50 (38)
2.13 (64)
1.57 (40)

Models with Plastic Bonnet
Models with Brass Bonnet

Panel mounting hole diameter:
- Models with plastic bonnet: 1.19” (30 mm)
- Models with brass bonnet: 0.81” (21mm)
Maximum panel thickness: 0.25” (6 mm)
Inline Lockout Valves
For installation in 1/4" through 1-1/2" air lines.

3-way, manually operated, full flow lockout valves can be locked in the closed position with a customer supplied padlock.

Helps you comply to OSHA regulations, as they relate to OSHA regulation 29 CFR Part 1910, standard for lockout/tagout procedures.

Technical data
Fluid:
Compressed air, neutral gases
NOTE: Contact Norgren for use with other media.
Maximum Pressure:
300 psig (20.4 bar)
Temperature Range:
-20°F to 175°F (-29°C to 79°C)
*With a dew point of supply air less than air temperature below 35°F (2°C).

Maximum Diameter of Lock Shackle:
5/16" (8mm)

Materials
Valve Body: Aluminum
Muffler Base: Zinc
Spool, T-Handle, Muffler Shell: Aluminum
Spring Detent: Stainless Steel
Elastomers
Standard: Nitrile and Polyurethane
Optional: Fluorocarbon

Repair Kits
Fluorocarbon Elastomers: 53474-44
C0022A/D and C0024A/D Valves: Standard Elastomers: 53475-34
Fluorocarbon Elastomers: 53475-36

Replacement Mufflers* for C0021A/C0024D Valves
C0021A/D and C0023A/D Valves: ML004F
C0022A/D and C0024A/D Valves: ML008F
*Contains all bolts and washers required to flange mount with the respective sized lockout valve.

Lockout Hasp
Part Number: 54547-01
Note: The 1-1/2" diameter jaws can be used with all Norgren Inline, Olympian, and Poppet Lockout Valves except the T15. High-tensile steel affords extra protection against unauthorized access. Red vinyl coated and plated to resist rust. Locking holes accommodate padlocks up to 11/32" shackle diameter.

Options
C0021A/D and C0023A/D Valves with fluorocarbon elastomers: Specify 1FA after the desired valve model number.
C0022A/D and C0024A/D Valves with fluorocarbon elastomers: Specify 1EX after the desired valve model number.
C0021A/D Valves with tapped muffler base that accepts a muffler with 3/4" NPT male threads: Specify 1M2 after the desired valve model number. Recommended muffler: MB006A.
C0022A/D Valves with tapped muffler base that accepts a muffler with 1" NPT male threads: Specify 1M1 after the desired valve model number. Recommended muffler MB008A.
Note: Standard valves have a black handle. To order valves with a red handle, change the second position of the model number to an R (e.g., C0021A would change to CR021A).

Ordering Information
Models listed are with PTF threads.
<table>
<thead>
<tr>
<th>Port</th>
<th>Size</th>
<th>Model</th>
<th>Model</th>
<th>Basic</th>
<th>Size</th>
<th>ISO G</th>
<th>Model</th>
<th>Model</th>
<th>Cv Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic</td>
<td></td>
<td>Without</td>
<td>With</td>
<td>Size</td>
<td>ISO G</td>
<td>Without</td>
<td>With</td>
<td>In-Out</td>
<td>Out-Exhaust</td>
</tr>
<tr>
<td>Size</td>
<td>PTF</td>
<td>Muffler</td>
<td>Muffler</td>
<td>Muffler</td>
<td>Muffler</td>
<td>Muffler</td>
<td>Muffler</td>
<td>Ports</td>
<td>Ports</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>1/4&quot;</td>
<td>C0021A</td>
<td>C0023A</td>
<td>1/2&quot;</td>
<td>G1/4</td>
<td>C0041A</td>
<td>C0043A</td>
<td>4.2</td>
<td>6.0</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td></td>
<td>C0021B</td>
<td>C0023B</td>
<td>G3/8</td>
<td>C0041B</td>
<td>C0043B</td>
<td>6.6</td>
<td>6.6</td>
<td></td>
</tr>
<tr>
<td>1/2&quot;</td>
<td></td>
<td>C0021C</td>
<td>C0023C</td>
<td>G1/2</td>
<td>C0041C</td>
<td>C0043C</td>
<td>9.3</td>
<td>7.9</td>
<td></td>
</tr>
<tr>
<td>3/4&quot;</td>
<td></td>
<td>C0021D</td>
<td>C0023D</td>
<td>G3/4</td>
<td>C0041D</td>
<td>C0043D</td>
<td>12.6</td>
<td>8.6</td>
<td></td>
</tr>
<tr>
<td>1&quot;</td>
<td></td>
<td>C0022A</td>
<td>C0024A</td>
<td>1&quot;</td>
<td>G3/4</td>
<td>C0042A</td>
<td>C0044A</td>
<td>10.6</td>
<td>8.0</td>
</tr>
<tr>
<td>1&quot;</td>
<td></td>
<td>C0022B</td>
<td>C0024B</td>
<td>G1</td>
<td>C0042B</td>
<td>C0044B</td>
<td>16.2</td>
<td>9.2</td>
<td></td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td></td>
<td>C0022C</td>
<td>C0024C</td>
<td>G1-1/4</td>
<td>C0042C</td>
<td>C0044C</td>
<td>25.3</td>
<td>8.9</td>
<td></td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td></td>
<td>C0022D</td>
<td>C0024D</td>
<td>–</td>
<td>–</td>
<td>C0042C</td>
<td>C0044C</td>
<td>22.4</td>
<td>10.0</td>
</tr>
</tbody>
</table>

Graphic Symbol
OUT
IN
EXHAUST

Norgren.com/usa – 303.794.2611 – help@amer.norgren.com
Inline Lockout Valves
For installation in 1/4" through 1-1/2" air lines.

<table>
<thead>
<tr>
<th>Valve Type</th>
<th>A</th>
<th>B Without Muffler</th>
<th>B With Muffler</th>
<th>C Without Muffler</th>
<th>C With Muffler</th>
<th>D Without Muffler</th>
<th>D With Muffler</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>1.87</td>
<td>9.33</td>
<td>11.78</td>
<td>2.90</td>
<td>5.35</td>
<td>6.97</td>
<td>7.97</td>
<td>4.00</td>
<td>2.00</td>
</tr>
<tr>
<td>1/2&quot; basic</td>
<td>(48)</td>
<td>(237)</td>
<td>(299)</td>
<td>(74)</td>
<td>(136)</td>
<td>(177)</td>
<td>(202)</td>
<td>(102)</td>
<td>(51)</td>
</tr>
<tr>
<td>All</td>
<td>2.26</td>
<td>12.07</td>
<td>15.72</td>
<td>4.13</td>
<td>7.78</td>
<td>8.65</td>
<td>10.46</td>
<td>5.00</td>
<td>2.50</td>
</tr>
<tr>
<td>1&quot; basic</td>
<td>(57)</td>
<td>(307)</td>
<td>(399)</td>
<td>(105)</td>
<td>(198)</td>
<td>(220)</td>
<td>(266)</td>
<td>(127)</td>
<td>(64)</td>
</tr>
</tbody>
</table>

All Dimensions in Inches (mm)
UL Listed Regulators for Industrial Service

Regulators for use with compressed air and inert gases

Underwriters Laboratories, Inc. listed (file number SA1089) for use with air, argon, carbon dioxide, krypton, neon, nitrogen, xenon. For use with other gases, including oxygen, consult Norgren.

Non-relieving and relieving models. Relieving models allow reduction of outlet pressure even when the system is dead-ended

R44
Fluid: Compressed air, carbon dioxide, inert gases, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure: 250 psig (17 bar)
Operating temperature: -30°F to 150°F (-34°C to 66°C) *

R83
Fluid: Air, argon, carbon dioxide, krypton, neon, nitrogen, and xenon. For use with other gases, including oxygen, consult Norgren. Do not use the R83 regulator in beverage dispensing applications. Other Norgren regulators (R81 for soft drink, R82 for beer, R84 for carbonators) are available for use in dispensing systems.

Maximum pressure: 3000 psig (207 bar)
Operating temperature: -30°F to 140°F (-34°C to 60°C) *

Materials

R44
Body and bonnet R44-100/-200: Aluminum body; acetal plastic bonnet
R44-121/-221: Brass body; acetal plastic bonnet
R44-122/-222: Zinc body; acetal plastic bonnet
R44-133/-233: Brass body; brass bonnet
Valve: Brass/nitrile
Valve seat: Acetal
Elastomers: Nitrile

R83
Body: Brass
Bonnet: Zinc
Cartridge valve: Teflon, brass, stainless steel
Diaphragm: Acetal and nitrile
Seals: Nitrile

Ordering Information

Models listed have PTF threads, and relieving diaphragm.

Alternative Models - R44

Alternative Models - R83
UL Listed Regulators for Industrial Service
Regulators for use with compressed air and inert gases

R44

Panel mounting hole diameter:
Models with plastic bonnet: 1.19" (30 mm)
Models with brass bonnet: 0.81" (21 mm)
Maximum panel thickness: 0.25" (6 mm)

R44 Service Kits

<table>
<thead>
<tr>
<th>Item</th>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service kit</td>
<td>Relieving</td>
<td>3407-02</td>
</tr>
<tr>
<td></td>
<td>Non relieving</td>
<td>3407-01</td>
</tr>
</tbody>
</table>

Service kit includes slip ring, diaphragm, standard valve seat with seal, valve, valve spring.

R83

Mounting Holes (2 Places)
0.18" (4.6mm) dia. by 0.39 (10mm) deep.
Use 10-32 thread forming screws.

R83 Service Kits

<table>
<thead>
<tr>
<th>Item</th>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service kits</td>
<td>Diaphragm, relieving</td>
<td>570-51</td>
</tr>
<tr>
<td></td>
<td>Diaphragm, non relieving</td>
<td>570-10</td>
</tr>
<tr>
<td>Valve cartridge</td>
<td></td>
<td>5086-55</td>
</tr>
</tbody>
</table>

Valve cartridge includes the sealed cartridge and cartridge o-ring.
U.L. Listed Beverage Regulators

Cylinder gas pressure (CO2) regulators for Soft drink and Beer dispensing systems

Underwriters Laboratories, Inc. listed
(file number SA1089)
The R81 regulator and C81 regulator configurations with integral relief valve and outlet check valves meet the requirements of paragraphs 4.5 and 4.6 of NSDA Pamphlet TD02, Installation and Operational Procedures for Pressurized Soft Drink Dispensing Systems, dated July, 1980.
The R82 regulator with integral relief valve meets the requirements of Proposed Section 9.7, Draught Beer Dispensing Equipment and Related Components (Seventh Draft dated October 17, 1980), of ANSI-ASME F2.1-1975, Food, Drug, and Beverage Equipment.

Technical data
R84
Fluid:
Carbon dioxide.
Maximum pressure:
3000 psig (207 bar)
Operating temperature:
0° to 140°F (-18° to 60°C)
Integral relief valve cracking pressure:
150 ± 5 psig (10.4 ± 0.33 bar)

R81
Fluid:
Carbon dioxide.
Maximum pressure:
3000 psig (207 bar)
Operating temperature:
0° to 140°F (-18° to 60°C)
Integral relief valve cracking pressure:
130 ± 4 psig (9.0 ± 0.28 bar)

R82
Fluid:
Carbon dioxide.
Maximum pressure:
3000 psig (207 bar)
Operating temperature:
0° to 140°F (-18° to 60°C)

Ordering Information
Models listed have PTF threads, integral relief valve, and relieving diaphragm.

<table>
<thead>
<tr>
<th>Port</th>
<th>Model</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>R84-200-MNLA</td>
<td>1.3 (0.59)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>R81-200-LNKA</td>
<td>1.3 (0.59)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>R82-200-ENEA</td>
<td>1.3 (0.59)</td>
</tr>
</tbody>
</table>

Alternative Models

R81-200-LN

Outlet Pressure

<table>
<thead>
<tr>
<th>Adjustment Ranges †</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 25 psig (0.07 to 1.7 bar)</td>
<td>T</td>
</tr>
<tr>
<td>2 to 50 psig (0.14 to 3.4 bar)</td>
<td>E</td>
</tr>
<tr>
<td>5 to 100 psig (0.34 to 6.9 bar)</td>
<td>K</td>
</tr>
</tbody>
</table>

† Outlet pressure can be adjusted to pressures in excess of, and less than, that specified. Do not use these units to control pressures outside of the specified range.

Materials

R84
Body: Brass
Bonnet: Zinc
Valve cartridge: Teflon, brass, stainless steel
Diaphragm: Acetal and nitrile
Relief valve: Brass, polycarbonate, nitrile, aluminum
Seals: Nitrile

R81
Body: Brass
Bonnet: Zinc
Valve cartridge: Teflon, brass, stainless steel
Diaphragm: Acetal and nitrile
Relief valve: Brass, polycarbonate, nitrile, aluminum
Seals: Nitrile

R82
Body: Brass
Bonnet: Zinc
Valve cartridge: Teflon, brass, stainless steel
Diaphragm: Acetal and nitrile
Relief valve: Brass, polycarbonate, nitrile, aluminum
Seals: Nitrile

Maximum outlet pressure adjustment limit:
Factory set at 40 to 45 psig (2.8 to 3.1 bar)
Integral relief valve cracking pressure:
60 ± 4 psig (4.1 ± 0.28 bar)

Norgren.com/usa – 303.794.2611 – help@amer.norgren.com
U.L. Listed Beverage Regulators
Cylinder gas pressure (CO2) regulators for Soft drink and Beer dispensing systems

R84 WARNING
For safety in systems using Norgren Model R84 regulators, the following procedures must be followed.
1. Pressure relief valves of sufficient capacity must always be used in the secondary (outlet) lines downstream of each pressure regulator, whether as an integral part of the regulator, as is the case with Norgren Model R84 Regulator, or separately installed elsewhere in the outlet lines. Do not remove or attempt to adjust, plug, block or otherwise defeat the purpose of the relief valve. Do not replace a relief valve with any but an identical model. The relief valve used on the R84 regulator is preset and marked 150 PSIG RELIEF VALVE. Replace only with the same 150 psig relief valve, part number 5779-54. The end cap on the 5779-54 relief valve is color coded red for visual identification. Failure to provide a pressure relief valve of sufficient capacity to hold outlet pressure below the lowest working pressure rating of any piece of equipment installed in the outlet lines can result in equipment damage and/or personal injury.
2. A back flow check valve must always be installed at the regulator or at each manifold outlet in liquid dispensing applications to prevent reverse flow through the regulator and possible introduction of liquids and other contaminants into the regulator.
3. Regulators must not be used where temperature or pressure may exceed those specified in the Technical data paragraph.
4. The accuracy of the indication of pressure gauges can change, both during shipment (despite care in packaging) and during the service life. If a pressure gauge is to be used in conjunction with these products and if inaccurate indications may be hazardous to personnel or property, the gauge should be calibrated before initial installation and at regular intervals during use. For gauge standards refer to ANSI B40.1.
5. These regulators are not intended for use in life support systems, beer dispensing systems, with soft drink product (syrup) containers, or industrial cylinder gas systems.

R81 WARNING
Soft drink dispensing systems must be designed, installed, and operated in accordance with the guidelines set forth in NSDA pamphlet TD02, Installation and Operational Procedures for Pressurized Soft Drink Dispensing Systems, dated July, 1980 or subsequent revisions.
1. Pressure relief valves of sufficient capacity must always be used in the secondary (outlet) lines downstream of each pressure regulator, whether as an integral part of the regulator, as is the case with Norgren Model R81 Regulator, or separately installed elsewhere in the outlet lines. Do not remove or attempt to adjust, plug, block or otherwise defeat the purpose of the relief valve. Do not replace a relief valve with any but an identical model. The relief valve used on the R81 regulator is preset and marked 130 PSIG RELIEF VALVE. Replace only with the same 130 psig relief valve, part number 5779-55. The end cap on the 5779-55 relief valve is color coded black for visual identification. Failure to provide a pressure relief valve of sufficient capacity to hold outlet pressure below the lowest working pressure rating of any piece of equipment installed in the outlet lines can result in equipment damage and/or personal injury.
2. A back flow check valve must always be installed at the regulator or at each manifold outlet in liquid dispensing applications to prevent reverse flow through the regulator and possible introduction of liquids and other contaminants into the regulator.
3. Regulators must not be used where temperature or pressure may exceed those specified in the Technical data paragraph.
4. The accuracy of the indication of pressure gauges can change, both during shipment (despite care in packaging) and during the service life. If a pressure gauge is to be used in conjunction with these products and if inaccurate indications may be hazardous to personnel or property, the gauge should be calibrated before initial installation and at regular intervals during use. For gauge standards refer to ANSI B40.1.
5. These regulators are not intended for use in life support systems, beer dispensing systems, with soft drink product (syrup) containers, or industrial cylinder gas systems.

R82 WARNING
Beer dispensing systems must be designed, installed, and operated in accordance with the applicable guidelines such as the proposed Section 9.7, Draught Beer Dispensing Equipment and Related Components (Seventh Draft dated October 17, 1980), of ANSI-ASME F2.1-1975, Food, Drug and Beverage Equipment or subsequent revisions.
1. Pressure relief valves of sufficient capacity must always be used in the secondary (outlet) lines downstream of each pressure regulator, whether as an integral part of the regulator, as is the case with Norgren Model R82 Regulator, or separately installed elsewhere in the outlet lines. Do not remove or attempt to adjust, plug, block or otherwise defeat the purpose of the relief valve. Do not replace a relief valve with any but an identical model. The relief valve used on the R82 regulator is preset and marked 60 PSIG RELIEF VALVE. Replace only with the same 60 psig relief valve, part number 5779-56. The end cap on the 5779-56 relief valve is color coded silver for visual identification. Failure to provide a pressure relief valve of sufficient capacity to hold outlet pressure below the lowest working pressure rating of any piece of equipment installed in the outlet lines can result in equipment damage and/or personal injury.
2. A back flow check valve must always be installed at the regulator or at each manifold outlet in liquid dispensing applications to prevent reverse flow through the regulator and possible introduction of liquids and other contaminants into the regulator.
3. Regulators must not be used where temperature or pressure may exceed those specified in the Technical data paragraph.
4. The accuracy of the indication of pressure gauges can change, both during shipment (despite care in packaging) and during the service life. If a pressure gauge is to be used in conjunction with these products and if inaccurate indications may be hazardous to personnel or property, the gauge should be calibrated before initial installation and at regular intervals during use. For gauge standards refer to ANSI B40.1.
5. These regulators are not intended for use in life support systems, soft drink carbonator systems, with soft drink product (syrup) containers, or industrial cylinder gas systems.
Additional Products

CS13 and CS15

Olympian Coalescing Exhaust Silencers

Olympian plug in design
Reduces noise from multi valve and cylinder circuits
Removes oil mist and sub micron particles from exhausting air
Flow in either direction
Single or double 15 Series units for high flow rates

Ordering Information

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>CS13-264-10AA</td>
<td>2.98 (1.35)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>CS13-364-10AA</td>
<td>2.93 (1.33)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>CS13-464-10AA</td>
<td>2.87 (1.30)</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>CS13-664-10AA</td>
<td>3.66 (1.66)</td>
</tr>
</tbody>
</table>

High Pressure Needle Valves

1/8" and 1/4" Port Sizes

Adjustable stem packing nut with Teflon® seal
Accurate metering of fluids
3,000 psig inlet pressure

Ordering Information

<table>
<thead>
<tr>
<th>Size</th>
<th>In</th>
<th>Out</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;</td>
<td>Male</td>
<td>Female</td>
<td>17-001-106</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>Female</td>
<td>17-001-109</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Male</td>
<td>17-001-112</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>Male</td>
<td>Male</td>
<td>17-001-107</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>Female</td>
<td>17-001-110</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Female</td>
<td>17-001-114</td>
</tr>
</tbody>
</table>

17-016

Drip Leg Drain
1/2" Port Size

Automatically expels liquids from the piping network
Automatic drain valve opens when system is unpressurized, allowing water to escape by gravity
Automatic drain valve is float operated when system is pressurized

Ordering Information

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Bowl Type</th>
<th>Bowl Size</th>
<th>Model Number</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot; PTF</td>
<td>Transparent</td>
<td>1/3 pint (0.16 liter)</td>
<td>17-016-104</td>
<td>0.8 (0.38)</td>
</tr>
<tr>
<td>1/2&quot; PTF</td>
<td>Metal with sight glass</td>
<td>1/3 pint (0.16 liter)</td>
<td>17-016-107</td>
<td>1.3 (0.58)</td>
</tr>
<tr>
<td>1/2&quot; PTF</td>
<td>Transparent</td>
<td>3 fluid ounce (0.09 liter)</td>
<td>17-016-102</td>
<td>0.8 (0.38)</td>
</tr>
</tbody>
</table>
### Air Pressure Gauges

**1/8” and 1/4” Port Sizes**

**Triple calibrated scale indicates pressure in psi, bar, and Mpa (megapascal)**

- **Back or bottom connection**
- **Panel mount, stainless steel, and Underwriters Laboratories, Inc. listed gauges available**

<table>
<thead>
<tr>
<th>Scale Range</th>
<th>Outer Scale NPT 1.5” (40mm) Diameter</th>
<th>1/8 NPT 2” (50mm) Diameter</th>
<th>1/4 NPT 2” (50mm) Diameter</th>
<th>Panel Mount, Stainless Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 30</td>
<td>0 to 0.2</td>
<td>18-013-214</td>
<td>18-013-201</td>
<td></td>
</tr>
<tr>
<td>0 to 60</td>
<td>0 to 0.4</td>
<td>18-013-211</td>
<td>18-013-202</td>
<td></td>
</tr>
<tr>
<td>0 to 100</td>
<td>0 to 0.7</td>
<td>18-013-203</td>
<td>18-013-203</td>
<td></td>
</tr>
<tr>
<td>0 to 160</td>
<td>0 to 1.1</td>
<td>18-013-212</td>
<td>18-013-209</td>
<td></td>
</tr>
<tr>
<td>0 to 200</td>
<td>0 to 2.1</td>
<td>18-013-210</td>
<td>18-013-207</td>
<td></td>
</tr>
<tr>
<td>0 to 400</td>
<td>0 to 2.8</td>
<td>18-013-206</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Bottom Connection

2” (50 mm) diameter gauges do not have the Mpa scale

<table>
<thead>
<tr>
<th>Scale Range</th>
<th>Outer Scale NPT 1.5” (40mm) Diameter</th>
<th>Panel Mount, Stainless Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 15</td>
<td>0 to 0.1</td>
<td></td>
</tr>
<tr>
<td>0 to 30</td>
<td>0 to 0.2</td>
<td></td>
</tr>
<tr>
<td>0 to 60</td>
<td>0 to 0.4</td>
<td></td>
</tr>
<tr>
<td>0 to 100</td>
<td>0 to 0.7</td>
<td></td>
</tr>
<tr>
<td>0 to 160</td>
<td>0 to 1.1</td>
<td></td>
</tr>
<tr>
<td>0 to 200</td>
<td>0 to 2.1</td>
<td></td>
</tr>
<tr>
<td>0 to 300</td>
<td>0 to 2.8</td>
<td></td>
</tr>
</tbody>
</table>

Center Back Connection

**Panel mount, stainless steel, and Underwriters Laboratories, Inc. listed gauges available**

<table>
<thead>
<tr>
<th>Scale Range</th>
<th>Outer Scale NPT 1.5” (40mm) Diameter</th>
<th>Center Back Connection, Panel Mount</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 30</td>
<td>0 to 0.2</td>
<td>18-013-082</td>
</tr>
<tr>
<td>0 to 60</td>
<td>0 to 0.4</td>
<td>18-013-083</td>
</tr>
<tr>
<td>0 to 100</td>
<td>0 to 0.7</td>
<td>18-013-084</td>
</tr>
<tr>
<td>0 to 160</td>
<td>0 to 1.1</td>
<td>18-013-085</td>
</tr>
<tr>
<td>0 to 200</td>
<td>0 to 2.1</td>
<td>18-013-086</td>
</tr>
<tr>
<td>0 to 300</td>
<td>0 to 2.8</td>
<td>18-013-244</td>
</tr>
</tbody>
</table>

**Stainless Steel Gauges**

Gauges do not have the Mpa scale

<table>
<thead>
<tr>
<th>Scale Range</th>
<th>Outer Scale NPT 1.5” (40mm) Diameter</th>
<th>Center Back Connection, Panel Mount</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 15</td>
<td>0 to 0.1</td>
<td>18-013-082</td>
</tr>
<tr>
<td>0 to 30</td>
<td>0 to 0.2</td>
<td>18-013-083</td>
</tr>
<tr>
<td>0 to 60</td>
<td>0 to 0.4</td>
<td>18-013-084</td>
</tr>
<tr>
<td>0 to 100</td>
<td>0 to 0.7</td>
<td>18-013-085</td>
</tr>
<tr>
<td>0 to 160</td>
<td>0 to 1.1</td>
<td>18-013-086</td>
</tr>
<tr>
<td>0 to 200</td>
<td>0 to 2.1</td>
<td>18-013-244</td>
</tr>
</tbody>
</table>

**Blow Guns BG Series**

1/4” Port Size

<table>
<thead>
<tr>
<th>Port (PTF)</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4”</td>
<td>BG4200</td>
<td>Metal blow gun</td>
</tr>
<tr>
<td>1/8”</td>
<td>BG2000</td>
<td>Plastic blow gun</td>
</tr>
<tr>
<td>1/8”</td>
<td>BG2020</td>
<td>Rubber tip **</td>
</tr>
</tbody>
</table>

**Ordering Information**

**Port (PTF) | Part Number | Description**

**OSHA compliant**

Exhausts air when nozzle is blocked

<table>
<thead>
<tr>
<th>Port (PTF)</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BG0200</td>
<td>Metal blow gun</td>
</tr>
<tr>
<td></td>
<td>BG4200</td>
<td>Plastic blow gun</td>
</tr>
<tr>
<td></td>
<td>BG2020</td>
<td>Rubber tip **</td>
</tr>
</tbody>
</table>

**Unit is not O.S.H.A. compliant without air exhaust mechanism. Air exhaust mechanism must be removed to use the rubber tip.**
Dryers

D11 Series Dryers
Refrigerated Compressed Air Dryers
Continuous compressor operation adds years to compressor life, and maintains a 35° to 42° (2° to 6°C) pressure dew point per ANSI/B93.45M.

D10 Series Dryers
Water or Air-Cooled Refrigerated Compressed Air Dryers
Refrigerant compressor runs continuously when power is applied to the dryer, providing a nearly constant dew point at all times. High efficiency heat exchangers. Heat exchangers are modular in design and may be replaced in the field.

D50 Series Dryers
Compact Heatless Regenerative Compressed Air Dryers
The twin desiccant-packed towers alternate operation continuously to provide ultra-dry air for critical applications. Timer controlled shuttle valves direct the compressed air into the active tower for drying. Calibrated needle valve adjusts purge flow to actual outlet flow and pressure conditions. Overlapping cycle times provide constant downstream pressure and dew point.
Dryers

D51 Series Dryers
Heatless Regenerative Compressed Air Dryers

-40°F pressure dew point ultra-dry air.
Automatic operation
Provides continuous supply of dry air.
Precision timing control.

D60 Series Dryers
Externally Heated Regenerative Compressed Air Dryers

Delivers -40°F pressure dew point
Provides continuous supply of dry air
Operates automatically with flexible controls
Reduces purge air requirements

D70 Series Dryers
Blower Purge Regenerative Compressed Air Dryers

Delivers -40°F pressure dew point
Provides continuous supply of dry air
Operates automatically with flexible controls
Reduces purge air requirements
Dryers

**W74D**

Excelon® 74 Desiccant Compressed Air Dryer
1/4", 3/8", and 1/2" Port Sizes

- Helps eliminate condensate at point-of-use.
- Typical dew point suppression of 15°F (-10°C) below inlet ambient pressure dew point.

**F21 / F61**

F21 and F61 Mainline Filters

- High flow mainline system filters
- The F21 provides 1 micron particle removal filtration
- The F61 provides 0.01 oil coalescing
- The F61 carbon type vapor removal filtration
- Optional automatic or timer drains available

**Membrane Dryers**

W07M, W72M, and W74M Series Membrane Dryer
1/4", and 1/2" Port Size

- Removes water vapor from compressed air providing condensate-free air at the point of application.
- Provides dewpoint suppression up to 80°F (44°C) depending on air flow through the membrane
- Dewpoint suppression of 20°F (11°C) below the inlet temperature is suitable for most industrial applications.
- Utilizes the latest membrane technology to achieve optimal water vapor removal rates.
Quikclamp

Maximum Pressure: 17 bar (250 psig)
Maximum Temperature: 65°C (150°F)

Use with all Excelon 72 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. Tighten screw with a 3 mm hex wrench or a T15 Torx wrench.

Quikclamp Service Kit (contains 2 Nitrile o-rings): 4384-570
A Quikclamp adds 0.26” (6.5 mm) to the overall length of a combination unit.

Quikclamp Wall Mounting Bracket

Use with the Quikclamp to provide secure mounting to a wall, machine panel or other flat surface. Use 3/16” (5 mm) screws to mount bracket to wall.

Part Number: 4213-89

Quikmount Pipe Adapters

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

A pipe adapter adds 0.63” (16 mm) to the overall length of a combination unit.

Port Size and Thread | Part No. (Quantity of 1)
--- | ---
1/4” PTF | 4215-02
3/8” PTF | 4215-03
1/4” ISO Rc | 4215-05
3/8” ISO Rc | 4215-06
1/4” ISO G | 4215-08
3/8” ISO G | 4215-09

Porting Block

Installs between two Quikclamps to provide three additional 1/4” outlets for auxiliary air.
A Porting Block adds 1.13” (28.5 mm) to the overall length of a combination unit.

Auxiliary Port Threads | Part Number
--- | ---
1/4” PTF | 4246-50
1/4” ISO G | 4246-52

Transition Connector

Enables connection of Excelon 72 to 74 units. Typically this will allow F74C/H high grade coalescing filters to be flow matched with R72 regulators.

Part Number: 4417-01

Replacement Pressure Switch

Use only with pressure switch sub-base. Cannot be used with the standard porting block.

Part Number: 4246-01

Manifold Block

Installs with Quikclamps. Ports are threaded 3/8” pipe to provide manifolding capability for up to three components.

Side Port Threads | Part Number
--- | ---
3/8” PTF | 4228-01
3/8” ISO Rc | 4228-02
3/8” ISO G | 4228-03

Sub-base 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 two additional 1/4” outlets for auxiliary air.

P<sub>1</sub><sub>max</sub>: 250 psig (17 bar)
Temperature: 14° to 150°F (-10° to 65°C)
Adjustable 30 to 150 psig (2 to 10 bar), Shipped from factory preset at 90 psig (6.3 bar)
Max. Voltage: 240 V a.c./d.c.
Max. Current: 5 Amp
Hysteresis at Midpoint: 12%

A Sub-base Mounted Pressure Switch adds 1.13” (29 mm) to the overall length of a combination unit.

Auxiliary Port Threads | Part Number
--- | ---
1/4” PTF | 4246-50
1/4” ISO G | 4246-52
# 73 and 74 Series Modular Components

## Quikclamp
Use with all 73 and 74 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. A Quikclamp adds 0.54" (13.6 mm) to the overall length of a combination unit. Tighten screw with a 5/32" (4 mm) hex or T25 Torx wrench. (30 in. lbs. Torque)

<table>
<thead>
<tr>
<th>Material:</th>
<th>Zinc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quikclamp part number:</td>
<td>4314-51</td>
</tr>
<tr>
<td>O-ring kit part number:</td>
<td>4384-770</td>
</tr>
</tbody>
</table>

## Quikclamp Wall Mounting Bracket
Use with the Quikclamp to provide secure mounting to a wall, machine panel or other flat surface. Use No. 12 (6 mm) screws to mount bracket to wall.

<table>
<thead>
<tr>
<th>Material:</th>
<th>Zinc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part number:</td>
<td>4313-50</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Material:</th>
<th>Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure switch part number:</td>
<td>4346-01</td>
</tr>
<tr>
<td>Replacement connector:</td>
<td>4346-01R</td>
</tr>
</tbody>
</table>

## Manifold Block
Installs with Quikclamps. Ports are threaded 3/4" pipe to provide manifolding capability for up to three components.

<table>
<thead>
<tr>
<th>Material:</th>
<th>Zinc</th>
</tr>
</thead>
</table>

## Porting Block
Installs between two Quikclamps to provide three additional 1/4" outlets for auxiliary air. A Porting Block adds 1.30" (33 mm) to the overall length of a combination unit.

<table>
<thead>
<tr>
<th>Material:</th>
<th>Aluminum</th>
</tr>
</thead>
</table>

## 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" outlets for auxiliary air. A Subbase Mounted Pressure Switch adds 1.30" (33 mm) to the overall length of a combination unit.

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Pressure: 300 psig (20 bar)</td>
</tr>
<tr>
<td>Maximum Temperature: 175°F (80°C)</td>
</tr>
<tr>
<td>Adjustable Range: 30 to 150 psig (2 to 10 bar)</td>
</tr>
<tr>
<td>Shipped from factory preset at 90 psig (6.2 bar)</td>
</tr>
<tr>
<td>Maximum Voltage: 240V ac/dc</td>
</tr>
<tr>
<td>Maximum Current: 5 Amp</td>
</tr>
<tr>
<td>Hysteresis at Midpoint: 12%</td>
</tr>
<tr>
<td>Materials: Zinc subbase, Aluminum switch</td>
</tr>
<tr>
<td>Part number Auxiliary port thread</td>
</tr>
</tbody>
</table>

## Transition Connector
Enables connection of Excelon 72 to 74 units. A transition connector adds 0.06" (1.5mm) to the overall length of a combination unit.

<table>
<thead>
<tr>
<th>Material:</th>
<th>Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number:</td>
<td>4417-01</td>
</tr>
</tbody>
</table>
# 64 Series Modular Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Single Yoke</th>
<th>Double Yoke</th>
<th>Triple Yoke</th>
<th>Yoke Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Porting Block</strong></td>
<td>![Image]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Adjustable Pressure Switch</strong></td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
<tr>
<td><strong>End Connector</strong></td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Model</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>Y64A-2AA-N1N</td>
<td>3/4= 6.18 (157)</td>
</tr>
<tr>
<td>3/8</td>
<td>Y64A-3AA-N1N</td>
<td>3/4= 9.33 (237)</td>
</tr>
<tr>
<td>1/2</td>
<td>Y64A-4AA-N1N</td>
<td>* 3/4= 13.46 (342)</td>
</tr>
<tr>
<td>3/4</td>
<td>Y64A-6AA-N1N</td>
<td>3/4= 13.46 (342)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Porting Block Adjustable Pressure Switch End Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Diagram]</td>
</tr>
</tbody>
</table>

- Porting block: (2) 1/4 outlets, (1) 3/8 outlet
- Adjusted pressure switch: 30-150 psi (2-10 bar) adjustable, porting block mounted, DIN 43650 form C connector
- End connector: For use with end mounted porting block, 1/2 or 3/4 over porting

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>74503-51</td>
<td>Rear Entry Bracket Kit 18-026-981</td>
</tr>
</tbody>
</table>


**Specifications:**
- **P1 max.** = 250 psi (17 bar)
- **T max.** = 175°F (80°C)
- **I max.** = 5 A
- **V max.** = 240 V
- Reset differential = 15 psi (1 bar) nominal

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>74507-52 PTF</td>
<td>4346-99</td>
</tr>
<tr>
<td>74507-50 ISO G</td>
<td>3/4 74505-55 PTF</td>
</tr>
<tr>
<td>74507-51 ISO Rc</td>
<td>1/2 74505-50 ISO G</td>
</tr>
</tbody>
</table>

**Symbol:**
68 Series Modular Components

### Triple Yoke Assembly

- Port Size
  - NPT 1/2: Y68A-4AN-N3N
  - NPT 3/4: Y68A-6AN-N3N
  - NPT 1: Y68A-8AN-N3N
  - NPT 1-1/4: Y68A-AAN-N3N
  - NPT 1-1/2: Y68A-BAN-N3N

### Triple Yoke Assembly with Shut-off

- Port Size
  - NPT 1/2: Y68B-4AN-E3N
  - NPT 3/4: Y68B-6AN-E3N
  - NPT 1: Y68B-8AN-E3N
  - NPT 1-1/4: Y68B-AAN-E3N
  - NPT 1-1/2: Y68B-BAN-E3N

---

### Alternative 68 Series Yoke Assembly Models

**Shut-Off Valve and Porting Block Substitute**
- No shut-off valve, No porting block: A
- With shut-off valve, No porting block: B
- With shut-off valve, With porting block: E
- No shut-off valve, With porting block: F

**Port Size Substitute**
- 3/4": 6
- 1": 8
- 1 1/4": A
- 1 1/2": B

**Threads Substitute**
- PTF: A
- ISO Rc taper: B
- ISO G parallel: G

**Wall Mounting Bracket Substitute**
- Without: N
- With: B

**Yoke Substitute**
- Single: 1
- Double: 2
- Triple: 3

**Shut-Off Valve Type Substitute**
- 2-port/2-position, Padlocks open or closed, No exhaust, Black handle: A
- 3-port/2-position, Padlocks open or closed, Unthreaded exhaust, Black handle: C
- 3-port/2-position, Not lockable, Threaded exhaust, Black handle: D
- 3-port/2-position, Padlocks closed only, Unthreaded exhaust, Yellow handle: E
- 2-port/2-position, Not lockable, No exhaust, Black handle: G
- No shut-off valve: N

* Meets OSHA requirements.
### 68 Series Modular Components

#### End Connector Kit

- **Note:** Two kits are required per unidaptor. Each kit contains end connector, screws, nuts and o-ring.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPT 1/2</td>
<td>5524-56</td>
</tr>
<tr>
<td>NPT 3/4</td>
<td>5524-53</td>
</tr>
<tr>
<td>NPT 1</td>
<td>5524-50</td>
</tr>
<tr>
<td>NPT 1-1/4</td>
<td>5523-50</td>
</tr>
<tr>
<td>NPT 1-1/2</td>
<td>5523-95</td>
</tr>
</tbody>
</table>

#### Yoke Connecting Kit

- **Comprising seal, screws and nuts.**
- **Part Number:** 18-026-987

#### Mounting Bracket

- Brackets slip over end connectors and are bolted to Yoke Assembly with nuts and screws provided.
- **Note:** Each kit contains 6 screws (2 x 80 mm and 4 x 35 mm) and 4 nuts.
- **Part Number**
  - 1/2” ported yoke: 18-001-979
  - 3/4” ported yoke: 18-001-979
  - 1” ported yoke: 18-001-979
  - 1-1/4” ported yoke: 18-001-978
  - 1-1/2” ported yoke: N/A

#### Porting Block

- May be fitted to end connectors, shut-off valves, or yokes. Provides additional outlets for auxiliary air.
- **A porting block adds 29 mm (1.14”) to the overall length of a combination unit.**
- **To order separately:**
  - **Thread Type** | **Part Number**
    - ISO G       | 18-026-986
    - NPT         | 18-026-983

- **To order unidaptor with porting block installed after 1st yoke:**
  - **With shut-off valve and porting block:** Change B to E in 4th position of unidaptor model number.
  - **Without shut-off valve, with porting block:** Change A to F in 4th position of unidaptor model number.
Filter Accessories

<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F07</td>
<td>Wall bracket</td>
<td>5939-06</td>
</tr>
<tr>
<td>F17</td>
<td>Wall bracket</td>
<td>6212-50</td>
</tr>
<tr>
<td>F22</td>
<td>Wall bracket</td>
<td>18-001-962</td>
</tr>
<tr>
<td>F39</td>
<td>Wall bracket</td>
<td>5939-06</td>
</tr>
<tr>
<td>F46</td>
<td>Wall bracket</td>
<td>6212-50</td>
</tr>
<tr>
<td>F64</td>
<td>Wall bracket</td>
<td>74504-50</td>
</tr>
</tbody>
</table>

All Dimensions in Inches (mm)

**F07, F39 Bracket (5939-06)**

**F17, F46 Bracket (6212-50, 6212-51)**

**F22 Bracket (18-001-962)**

**F64 Bracket (74504-50)**
### Filter Accessories

<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F68</td>
<td>Wall bracket</td>
<td>18-001-978</td>
</tr>
<tr>
<td></td>
<td>1/2&quot;, 3/4&quot;, 1&quot;, 1-1/4&quot; Ports:</td>
<td>Not Available</td>
</tr>
<tr>
<td></td>
<td>F68 Bracket</td>
<td>(18-001-978)</td>
</tr>
<tr>
<td></td>
<td>1-1/2&quot; Ports: Not Available</td>
<td></td>
</tr>
<tr>
<td>F72</td>
<td>Wall bracket</td>
<td>4224-50</td>
</tr>
<tr>
<td>F73</td>
<td>Wall Bracket</td>
<td>4424-50</td>
</tr>
<tr>
<td></td>
<td>Electric service indicator</td>
<td>4020-51R</td>
</tr>
<tr>
<td></td>
<td>Provides electrical signal when element needs to be replaced.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rated NEMA 4.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Visual service indicator</td>
<td>5797-50</td>
</tr>
<tr>
<td></td>
<td>Turns from green to red when element needs to be replaced.</td>
<td></td>
</tr>
<tr>
<td>F74</td>
<td>Wall bracket</td>
<td>4324-50</td>
</tr>
<tr>
<td></td>
<td>Electric service indicator</td>
<td>4020-51R</td>
</tr>
<tr>
<td></td>
<td>Rated NEMA 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Provides electrical signal when element needs to be replaced.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Visual service indicator</td>
<td>5797-50</td>
</tr>
<tr>
<td></td>
<td>Turns from green to red when element needs to be replaced.</td>
<td></td>
</tr>
</tbody>
</table>

* All Dimensions in Inches (mm)

**F68 Bracket (18-001-978)**

- **Port CL**: 0.24 (6), 0.20 (5), 0.47□ (12)
- **Port CL**: 0.24 (6), 0.20 (5), 1.97 (50)

* Add 0.39" (10) for 1-1/4" ported yokes.

**F72 Bracket (4224-50)**

- **Port CL**: 1.10 (28), 0.71□ (18)
- **Port CL**: 0.24 (6), 0.16 (4)

**F73 Bracket (4424-50)**

- **Port CL**: 0.20 (5), 0.47 (12), 0.24 (6)
- **Port CL**: 2.84 (72), 2.34 (60)

**F74 Bracket (4324-50)**

- **Port CL**: 2.88 (73), 2.40 (61), 3.25 (83)
- **Port CL**: 0.33 (8.5), 0.59 (15)
## Regulator Accessories

<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>R05</td>
<td>Plastic panel nut</td>
<td>2962-89</td>
</tr>
<tr>
<td>R06</td>
<td>Wall bracket for R06 with plastic bonnet</td>
<td>18-025-003</td>
</tr>
<tr>
<td></td>
<td>Bracket and plastic nut: 2962-89</td>
<td>Metal nut: 2962-04</td>
</tr>
<tr>
<td></td>
<td>Wall bracket for R06 with brass bonnet</td>
<td>18-001-021</td>
</tr>
<tr>
<td></td>
<td>Bracket and metal nut: 18-001-021</td>
<td>Metal nut: 616-01</td>
</tr>
<tr>
<td></td>
<td>Tamper resistant knob kit</td>
<td>18-001-092</td>
</tr>
<tr>
<td>R07</td>
<td>Wall bracket with plastic nut</td>
<td>18-025-003</td>
</tr>
<tr>
<td></td>
<td>Bracket and plastic nut: 2962-89</td>
<td>Metal nut: 2962-04</td>
</tr>
<tr>
<td></td>
<td>Tamper resistant knob kit</td>
<td>18-001-092</td>
</tr>
<tr>
<td>R17</td>
<td>Wall bracket with plastic nut</td>
<td>5570-04</td>
</tr>
<tr>
<td></td>
<td>Bracket and metal nut: 5226-97</td>
<td>Metal nut: 2117-01</td>
</tr>
<tr>
<td></td>
<td>Tamper resistant seal wire</td>
<td>2117-01</td>
</tr>
<tr>
<td>R18</td>
<td>Muffler</td>
<td>3/4 PTF: MB006A</td>
</tr>
<tr>
<td></td>
<td>R 3/4: MB006B</td>
<td></td>
</tr>
</tbody>
</table>

All Dimensions in Inches (mm)

### R06, R07 Bracket (18-025-003)

![Diagram of R06, R07 Bracket](image)

### R06 Bracket for Brass Bonnet (18-001-021)

![Diagram of R06 Bracket for Brass Bonnet](image)

### R17 Bracket (5570-04)

![Diagram of R17 Bracket](image)
## Regulator Accessories

### All Dimensions in Inches (mm)

#### R22 Bracket (18-001-962)

<table>
<thead>
<tr>
<th>Port</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>3.18 (81)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>4.17 (106)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>2.06 (52)</td>
</tr>
</tbody>
</table>

#### R22 Neck Bracket (18-001-959)

<table>
<thead>
<tr>
<th>Port</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;</td>
<td>3.11 (79)</td>
</tr>
<tr>
<td>1&quot;</td>
<td>2.95 (75)</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>0.98 (25)</td>
</tr>
</tbody>
</table>

#### R24 Bracket (18-999-412)

<table>
<thead>
<tr>
<th>Port</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;</td>
<td>3.23 (83)</td>
</tr>
<tr>
<td>1&quot;</td>
<td>1.8 (46)</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>1.26 (32)</td>
</tr>
</tbody>
</table>

#### R30M

<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>R22</td>
<td>Stainless steel wall bracket</td>
<td>18-001-962</td>
</tr>
<tr>
<td></td>
<td>Wall bracket (neck mount)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stainless steel wall bracket and metal nut: 18-001-959</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metal nut: 5988-02</td>
<td></td>
</tr>
<tr>
<td>R24</td>
<td>Wall bracket with metal nut</td>
<td>18-999-412</td>
</tr>
<tr>
<td></td>
<td>Bracket and metal nut: 18-001-996</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plastic nut: 2962-89</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metal nut: 2962-04</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reducing bushing for gauge ports</td>
<td>3/8 to 1/4 PTF: 5950-01</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/2 to 1/4 PTF: 2339-04</td>
</tr>
<tr>
<td></td>
<td></td>
<td>R1/4 to G1/8: 150232818</td>
</tr>
<tr>
<td></td>
<td></td>
<td>R3/8 to G1/8: 150233818</td>
</tr>
<tr>
<td></td>
<td>R1/2 to G1/8: 150234818</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tamper resistant cap</td>
<td>18-021-006</td>
</tr>
<tr>
<td>R30M</td>
<td>Plastic panel nut</td>
<td>2962-89</td>
</tr>
<tr>
<td></td>
<td>Metal panel nut</td>
<td>2962-04</td>
</tr>
<tr>
<td></td>
<td>Tamper resistant knob kit</td>
<td>18-001-092</td>
</tr>
<tr>
<td></td>
<td>Push-in connector</td>
<td>8 mm: 11-002-0800</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mm: 11-002-1000</td>
</tr>
<tr>
<td></td>
<td>Push-in plug</td>
<td>8 mm: 11-004-0800</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mm: 11-004-1000</td>
</tr>
<tr>
<td></td>
<td>Push-in gauge adapter</td>
<td>8 mm: 74679-02</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mm: 74679-03</td>
</tr>
</tbody>
</table>
Regulator Accessories

<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>R38</td>
<td>Aluminum wall bracket and nut: 18-001-974&lt;br&gt;Aluminum nut: 5988-01&lt;br&gt;Stainless steel wall bracket and nut: 18-001-973&lt;br&gt;Stainless steel nut: 5988-02&lt;br&gt;Plastic adjusting knob 655-97&lt;br&gt;Tamper resistant cap 18-004-987</td>
<td></td>
</tr>
<tr>
<td>R40</td>
<td>Wall bracket with Bracket and metal nut: 5203-06&lt;br&gt;Plastic nut: 5191-89&lt;br&gt;Metal nut: 5191-88</td>
<td></td>
</tr>
<tr>
<td>R41</td>
<td>Metal nut: 5191-88&lt;br&gt;Tamper resistant seal wire 2117-01</td>
<td></td>
</tr>
<tr>
<td>R43</td>
<td>Wall bracket for R44 Bracket and metal nut: 18-001-021&lt;br&gt;Metal nut: 616-01&lt;br&gt;Tamper resistant knob 18-001-092</td>
<td></td>
</tr>
<tr>
<td>R44</td>
<td>Wall bracket for R44 with plastic bonnet&lt;br&gt;Bracket and plastic nut: 18-025-003&lt;br&gt;Plastic nut: 2962-89&lt;br&gt;Metal nut: 2962-04&lt;br&gt;Wall bracket for R44 with brass bonnet&lt;br&gt;Bracket and metal nut: 18-001-021&lt;br&gt;Metal nut: 616-01&lt;br&gt;Tamper resistant knob 18-001-092</td>
<td></td>
</tr>
</tbody>
</table>

All Dimensions in Inches (mm)

**R38 Bracket (18-001-974)**

**R40, R41, R43 Bracket (5203-06)**

**R44 Bracket (18-025-003)**

**R44 Bracket for Brass Bonnet (18-001-021)**
Regulator Accessories

All Dimensions in Inches (mm)

R64 Bracket (74504-50)

<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>R64</td>
<td>Wall bracket</td>
<td>74504-50</td>
</tr>
<tr>
<td></td>
<td>Metal panel nut</td>
<td>4348-89</td>
</tr>
</tbody>
</table>

Tamper resistant cover and wire. Install over knob to help prevent tampering of pressure setting. Use up to 4 padlocks with 5/16” (8mm) diameter shackle to secure cover. Lockout hasp may also be used.

Lockout hasp. Allows use of up to 6 padlocks with 5/16” (8mm) diameter shackle.

R68 Bracket (18-001-978)

<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>R68</td>
<td>Wall bracket</td>
<td>18-001-978</td>
</tr>
</tbody>
</table>

Tamper resistant cover and wire. Install over knob to help prevent tampering of pressure setting. Use up to 4 padlocks with 5/16” (8mm) diameter shackle to secure cover. Lockout hasp may also be used.

Lockout hasp. Allows use of up to 6 padlocks with 5/16” (8mm) diameter shackle.

R72 Neck Bracket (74316-02)

<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>R72</td>
<td>Wall bracket</td>
<td>74316-50</td>
</tr>
</tbody>
</table>

All Dimensions in Inches (mm)

* Add 0.39” (10) for 1-1/4” ported yokes.

R72 Bracket (4224-50)
Regulator Accessories

<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>R73</td>
<td>Wall bracket</td>
<td>4424-50</td>
</tr>
</tbody>
</table>

Wall bracket/metal nut
Bracket and metal nut: 4461-50
Metal Nut: 5191-88
Plastic Nut: 5191-89

Tamper resistant cover and wire.
Cover and wire: 4455-51
Wire: 2117-01

Lockout hasp.
Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle.

R74 Wall bracket | 4324-50 |

Wall bracket/metal nut
Bracket and metal nut: 4368-51
Metal Nut: 4348-89

Tamper resistant cover and wire.
Cover and wire: 4355-51
Wire: 2117-01

Lockout hasp.
Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle.
## Regulator Accessories

<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>R81-R84</td>
<td>Wall bracket</td>
<td>5095-51</td>
</tr>
<tr>
<td></td>
<td>Pipe plug, hex socket</td>
<td>1/4 PTF: 2891-97</td>
</tr>
<tr>
<td></td>
<td>Nipple</td>
<td>1/4 PTF male: 18-006-067</td>
</tr>
<tr>
<td></td>
<td>Union adapter with cap</td>
<td>1/4 PTF to 1/4 tube (45° flare): 18-006-068</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Adapter only: 18-006-027</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cap only: 3302-50</td>
</tr>
<tr>
<td></td>
<td>Cylinder connector, nitrogen service, 0.906-14 RH external thread</td>
<td>CGA No. 580: 18-008-004</td>
</tr>
<tr>
<td></td>
<td>Cylinder connector, carbon dioxide service, 0.830-14 RH internal thread</td>
<td>CGA No 320: 18-008-002</td>
</tr>
<tr>
<td></td>
<td></td>
<td>With 2.25” (57mm) long nipple: 18-008-015</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Replacement gasket: 1390-02</td>
</tr>
<tr>
<td></td>
<td>Check valves *</td>
<td>1/4 PTF male to 1/4 tube (45° flare): 16-009-001</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/4 PTF male to 1/2-16 BSF: 16-009-002</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/4 PTF male to 1/4 PTF female: 16-009-003</td>
</tr>
<tr>
<td></td>
<td>Check and relief valve **</td>
<td>Relief cracking pressure: 130±4 psig (9 ±0.28 bar)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/4 PTF male to 1/4 tube (45° flare): 16-006-107</td>
</tr>
<tr>
<td></td>
<td>Manifolds with integral check valve *</td>
<td>2 or 3 outlets, 1/4 PTF male to 1/4 tube (45° flare): 3228-54</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 or 3 outlets, 1/4 PTF male to 1/2-16 BSF: 3228-55</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 or 5 outlets, 1/4 PTF male to 1/4 tube (45° flare): 3228-60</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 or 5 outlets, 1/4 PTF male to 1/2-16 BSF: 3228-61</td>
</tr>
<tr>
<td>Manifold extension</td>
<td></td>
<td>1/4 PTF male to 1/4 PTF female: 2340-50</td>
</tr>
<tr>
<td>Streamline wye †</td>
<td></td>
<td>1/4 PTF male to 1/4 PTF female: 18-006-016</td>
</tr>
</tbody>
</table>

* The listed check valves and manifolds with integral check valves are designed for use with Norgren beverage regulators (R81, R82, R84) to help prevent the back flow of liquids into the regulator.

** The 16-006-107 check and relief valve meets the pressure and flow requirements of paragraphs 4.5 and 4.6 of NSDA Pamphlet TD02, Installation and Operational Procedures for Pressurized Soft Drink Dispensing Systems, dated July, 1980.

† Check valves, or manifolds with integral check valves, must be installed in the outlet ports of the wye when the wye is installed in the outlet port of Norgren beverage regulators.

All Dimensions in Inches (mm)

Regulator Accessories

---

Norgren.com/usa – 303.794.2611 – help@amer.norgren.com
### Regulator Accessories

<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>R91</td>
<td>Wall bracket with plastic nut</td>
<td>18-025-003</td>
</tr>
<tr>
<td></td>
<td>Plastic nut: Metal nut:</td>
<td>2962-89 2962-04</td>
</tr>
<tr>
<td></td>
<td>Tamper resistant knob</td>
<td>18-001-092</td>
</tr>
<tr>
<td>11-002</td>
<td>Wall bracket</td>
<td>18-001-003</td>
</tr>
<tr>
<td></td>
<td>Panel mount kit with T-bar adjustment</td>
<td>18-003-004</td>
</tr>
<tr>
<td></td>
<td>Bonnet included</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Panel mount kit with hand wheel adjustment</td>
<td>18-003-002</td>
</tr>
<tr>
<td></td>
<td>Bonnet included</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Panel mount kit with screw adjustment</td>
<td>18-003-006</td>
</tr>
<tr>
<td></td>
<td>Bonnet included</td>
<td></td>
</tr>
<tr>
<td>11-008</td>
<td>Wall bracket</td>
<td>18-001-003 18-001-027</td>
</tr>
<tr>
<td></td>
<td>Units with 1/2&quot; ports</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Units with 3/4&quot; and 1&quot; ports:</td>
<td></td>
</tr>
</tbody>
</table>

All Dimensions in Inches (mm)

**R91 Bracket** (18-025-003)

**11-002 Bracket**
**11-006 Bracket (Units with 1/2" Ports)**
(18-001-003)

**11-008 Bracket (Units with 3/4" and 1" Ports)**
(18-001-027)
Regulator Accessories

<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-009</td>
<td>Wall bracket</td>
<td>18-001-029</td>
</tr>
<tr>
<td></td>
<td>Screw adjustment</td>
<td>1095-02</td>
</tr>
<tr>
<td>11-018</td>
<td>Tamper resistant cap</td>
<td>639-02</td>
</tr>
<tr>
<td>11-042</td>
<td>Muffler</td>
<td>3/4 PTF: MB006A R3/4: MB006B</td>
</tr>
<tr>
<td>11-044</td>
<td>Wall bracket with plastic nut</td>
<td>18-025-003</td>
</tr>
<tr>
<td></td>
<td>Bracket and plastic nut:</td>
<td>Plastic nut: 2962-89 Metal nut: 2962-04</td>
</tr>
<tr>
<td></td>
<td>Tamper resistant knob</td>
<td>18-001-092</td>
</tr>
<tr>
<td>11400-</td>
<td>Wall bracket</td>
<td>18-001-003</td>
</tr>
<tr>
<td>20AL-11-104-</td>
<td>Wall bracket</td>
<td></td>
</tr>
</tbody>
</table>

All Dimensions in Inches (mm)

11-009 Bracket (18-001-029)

11-044 Bracket (18-025-003)

11400- Bracket
20AL Bracket
(18-001-003)
Filter/Regulator Accessories

<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B05</td>
<td>Plastic Panel Nut</td>
<td>2962-89</td>
</tr>
<tr>
<td>B07</td>
<td>Wall bracket with plastic nut</td>
<td>18-025-003</td>
</tr>
<tr>
<td></td>
<td>Bracket and plastic nut</td>
<td>Plastic nut: 2962-89</td>
</tr>
<tr>
<td></td>
<td>Tamper resistant knob</td>
<td>18-001-092</td>
</tr>
<tr>
<td>B38</td>
<td>Aluminum wall bracket and nut</td>
<td>18-001-974</td>
</tr>
<tr>
<td></td>
<td>Stainless steel wall bracket and nut</td>
<td>18-001-973</td>
</tr>
<tr>
<td></td>
<td>Stainless steel nut</td>
<td>5988-02</td>
</tr>
<tr>
<td></td>
<td>Plastic adjusting knob</td>
<td>655-97</td>
</tr>
<tr>
<td></td>
<td>Tamper resistant cap</td>
<td>18-004-987</td>
</tr>
<tr>
<td>B39</td>
<td>Wall bracket with plastic nut</td>
<td>18-025-003</td>
</tr>
<tr>
<td></td>
<td>Bracket and plastic nut</td>
<td>Plastic nut: 2962-89</td>
</tr>
<tr>
<td></td>
<td>Tamper resistant knob</td>
<td>18-001-092</td>
</tr>
</tbody>
</table>

All Dimensions in Inches (mm)

**B07, B39 Bracket (18-025-003)**

**B38 Bracket (18-001-974)**
### Filter/Regulator Accessories

**Product** | **Accessory** | **Part No.**  
--- | --- | ---  
B64 | Wall bracket | 74504-50  
B68 | Wall bracket | 18-001-978  

- **Tamper resistant cover and wire.**
- **Install over knob to help prevent tampering of pressure setting.**
- **Use up to 4 padlocks with 5/16” (8mm) diameter shackle to secure cover.**
- **Lockout hasp may also be used.**

- **Lockout hasp.**
- **Allows use of up to 6 padlocks with 5/16” (8mm) diameter shackle.**

---

**B64 Bracket** (74504-50)  

**B68 Bracket** (18-001-978)  

* Add 0.39” (10) for 1-1/4” ported yokes.
<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B72</td>
<td>Wall bracket</td>
<td>4224-50</td>
</tr>
<tr>
<td></td>
<td>Wall bracket/plastic nut</td>
<td>74316-50</td>
</tr>
<tr>
<td></td>
<td>Plastic nut: 4248-89</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metal Nut: 4248-01</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tamper resistant cover and wire.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cover and wire: 4255-51</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wire: 2117-01</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lockout hasp.</td>
<td>54547-01</td>
</tr>
<tr>
<td></td>
<td>Allows use of up to 6 padlocks with 5/16” (8mm) diameter shackle.</td>
<td></td>
</tr>
</tbody>
</table>

| B73     | Wall bracket | 4424-50 |
|         | Wall bracket/metal nut | 4461-50 |
|         | Metal Nut: 5191-88 | |
|         | Plastic Nut: 5191-89 | |
|         | Tamper resistant cover and wire. | |
|         | Cover and wire: 4455-51 | |
|         | Wire: 2117-01 | |
|         | Lockout hasp. | 54547-01 |
|         | Allows use of up to 6 padlocks with 5/16” (8mm) diameter shackle. | |

| B74     | Wall bracket | 4324-50 |
|         | Wall bracket/metal nut | 4368-51 |
|         | Metal Nut: 4348-89 | |
|         | Tamper resistant cover and wire. | |
|         | Cover and wire: 4355-51 | |
|         | Wire: 2117-01 | |
|         | Lockout hasp. | 54547-01 |
|         | Allows use of up to 6 padlocks with 5/16” (8mm) diameter shackle. | |

All Dimensions in Inches (mm)

**B72 Bracket (4224-02)**

<table>
<thead>
<tr>
<th>Port CL</th>
<th>1.77 (45)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.20 (5)</td>
<td>0.79 (20)</td>
</tr>
<tr>
<td>0.16 (4)</td>
<td>0.47 (12)</td>
</tr>
<tr>
<td>0.24 (6)</td>
<td>1.50 (38)</td>
</tr>
<tr>
<td>1.50 (38)</td>
<td></td>
</tr>
<tr>
<td>2.20 (56)</td>
<td></td>
</tr>
</tbody>
</table>

**B72 Neck Bracket (74316-02)**

<table>
<thead>
<tr>
<th>Port CL</th>
<th>1.9 (49)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.20 (5)</td>
<td>0.79 (20)</td>
</tr>
<tr>
<td>0.16 (4)</td>
<td>0.47 (12)</td>
</tr>
<tr>
<td>0.24 (6)</td>
<td>1.50 (38)</td>
</tr>
<tr>
<td>1.50 (38)</td>
<td></td>
</tr>
<tr>
<td>2.20 (56)</td>
<td></td>
</tr>
</tbody>
</table>

**B73 Bracket (4424-50)**

<table>
<thead>
<tr>
<th>Port CL</th>
<th>2.37 (60)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.28 (7)</td>
<td>0.77 (20)</td>
</tr>
<tr>
<td>0.16 (4)</td>
<td>1.46 (37)</td>
</tr>
<tr>
<td>1.00 (25)</td>
<td></td>
</tr>
<tr>
<td>0.24 (6)</td>
<td>1.24 (32)</td>
</tr>
</tbody>
</table>

**B73 Neck Bracket (4461-50)**

<table>
<thead>
<tr>
<th>Port CL</th>
<th>2.5 (64)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.28 (7)</td>
<td>0.77 (20)</td>
</tr>
<tr>
<td>0.16 (4)</td>
<td>1.46 (37)</td>
</tr>
<tr>
<td>1.00 (25)</td>
<td></td>
</tr>
<tr>
<td>0.24 (6)</td>
<td>1.24 (32)</td>
</tr>
</tbody>
</table>

**B74 Bracket (4324-50)**

<table>
<thead>
<tr>
<th>Port CL</th>
<th>2.88 (73)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.16 (4)</td>
<td>1.46 (37)</td>
</tr>
<tr>
<td>1.00 (25)</td>
<td></td>
</tr>
<tr>
<td>0.24 (6)</td>
<td>1.24 (32)</td>
</tr>
</tbody>
</table>

**B74 Neck Bracket (4368-51)**

<table>
<thead>
<tr>
<th>Port CL</th>
<th>3.5 (89)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.16 (4)</td>
<td>1.46 (37)</td>
</tr>
<tr>
<td>1.00 (25)</td>
<td></td>
</tr>
<tr>
<td>0.24 (6)</td>
<td>1.24 (32)</td>
</tr>
</tbody>
</table>
## Lubricator Accessories

<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>L07</td>
<td>Wall bracket with plastic nut</td>
<td>18-025-003</td>
</tr>
<tr>
<td></td>
<td>Plastic nut: 2962-89</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metal nut: 2962-04</td>
<td></td>
</tr>
<tr>
<td>L17</td>
<td>Wall bracket - use with 1 and 2 quart reservoirs only</td>
<td>6212-50</td>
</tr>
<tr>
<td></td>
<td>1-1/4&quot;, 1-1/2&quot; Ports: 6212-51</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wall strap - use with 2 and 5 gal reservoirs only</td>
<td>18-001-039</td>
</tr>
<tr>
<td></td>
<td>2 gal reservoir: 18-001-056</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5 gal reservoir: 18-001-039</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Low oil level switch. Provides electrical signal for warning or shut-down when oil level is low.</td>
<td>18-023-612</td>
</tr>
<tr>
<td></td>
<td>2 qt reservoir: 18-023-614</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5 gal reservoir: 18-023-616</td>
<td></td>
</tr>
<tr>
<td></td>
<td>High/Low Level switch Provides electrical signal for warning or shut-down when oil level is full or low.</td>
<td>18-023-658</td>
</tr>
<tr>
<td></td>
<td>5 gal reservoir: 18-023-658</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pyrex dome and metal fill plug</td>
<td>5605-60</td>
</tr>
<tr>
<td>L22</td>
<td>Wall bracket</td>
<td>18-001-962</td>
</tr>
</tbody>
</table>

### All Dimensions in Inches (mm)

#### L07 Bracket (18-025-003)

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>2.47 (63)</td>
</tr>
<tr>
<td>B</td>
<td>1.00 (25)</td>
</tr>
<tr>
<td>C</td>
<td>1.63 (41)</td>
</tr>
<tr>
<td>D</td>
<td>1.50 (38)</td>
</tr>
<tr>
<td>E</td>
<td>0.93 (24)</td>
</tr>
<tr>
<td>F</td>
<td>0.38 (10)</td>
</tr>
<tr>
<td>G</td>
<td>0.29 (7)</td>
</tr>
</tbody>
</table>

#### L17 Bracket (6212-50, 6212-51)

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3.19 (81)</td>
</tr>
<tr>
<td>B</td>
<td>1.50 (38)</td>
</tr>
<tr>
<td>C</td>
<td>1.53 (39)</td>
</tr>
<tr>
<td>D</td>
<td>0.56 (14)</td>
</tr>
<tr>
<td>E</td>
<td>0.34 (9)</td>
</tr>
</tbody>
</table>

#### L17 Strap (18-001-039/056)

<table>
<thead>
<tr>
<th>Bracket</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>18-001-056</td>
<td>3.00</td>
<td>8.84</td>
</tr>
<tr>
<td></td>
<td>(76)</td>
<td>(225)</td>
</tr>
<tr>
<td>18-001-039</td>
<td>5.00</td>
<td>13.0</td>
</tr>
<tr>
<td></td>
<td>(127)</td>
<td>(330)</td>
</tr>
</tbody>
</table>

#### L22 Bracket (18-001-962)

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.06 (103)</td>
</tr>
<tr>
<td>B</td>
<td>3.33 (85)</td>
</tr>
<tr>
<td>C</td>
<td>1.42 (36)</td>
</tr>
</tbody>
</table>

### Norgren.com/usa – 303.794.2611 – help@amer.norgren.com
## Lubricator Accessories

<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
</table>
| L64     | Wall bracket | 7 ounce bowl: 74504-50  
|         |            | 1 quart bowl: 74504-52 |
|         | Tamper resistant seal wire for sight-feed dome |
|         | Low oil level switch.  
|         | Provides electrical signal for warning or shutdown when oil level is low. |
|         | Quick fill cap.  
|         | Use with Norgren 18-010-003 oil pump, pail, and hose assembly (see catalog sheet NC-26) to refill reservoir without shutting off air supply. Replaces fill plug. |
|         | Remote fill - use with 7 ounce reservoir only  
|         | Use with customer supplied pressurized oil source to automatically refill reservoir. |

|         |            | 1-1/2" Ports: Not Available |
|         | Tamper resistant seal wire for sight-feed dome |
|         | Low oil level switch.  
|         | Provides electrical signal for warning or shutdown when oil level is low. |
|         | Quick fill cap.  
|         | Use with Norgren 18-010-003 oil pump, pail, and hose assembly (see catalog sheet NC-26) to refill reservoir without shutting off air supply. Replaces fill plug. |
|         | Remote fill - use with 1 qt reservoirs only  
|         | Use with customer supplied pressurized oil source to automatically refill reservoir. |

All Dimensions in Inches (mm)

### L64 Bracket (74504-52)

### L68 Bracket (18-001-978)
<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>L72</td>
<td>Wall bracket</td>
<td>4224-50</td>
</tr>
<tr>
<td>L73</td>
<td>Wall bracket</td>
<td>4424-50</td>
</tr>
<tr>
<td></td>
<td>Quick fill cap.</td>
<td>18-011-024</td>
</tr>
<tr>
<td></td>
<td>Use with Norgren 18-010-003 oil pump, pail, and hose assembly (see catalog sheet NC-26) to refill reservoir without shutting off air supply. Replaces fill plug.</td>
<td></td>
</tr>
</tbody>
</table>
| L74     | Wall bracket         | 7 ounce bowl: 4324-50  
|         | 1 quart bowl: 4324-51 |
|         | Low oil level switch - use with 1 qt reservoir only | 18-023-610 |
|         | Provides electrical signal for warning or shut-down when oil level is low. |
|         | Quick fill cap.      | 18-011-024 |
|         | Use with Norgren 18-010-003 oil pump, pail, and hose assembly (see catalog sheet NC-26) to refill reservoir without shutting off air supply. Replaces fill plug. |
|         | Remote fill - use with 7 ounce reservoir only | 5335-50 |
|         | Use with customer supplied pressurized oil source to automatically refill reservoir. |

All Dimensions in Inches (mm)

L64 Bracket (74504-50)

L73 Bracket (4424-50)

L74 Bracket (4324-50)
## Lubricator Accessories

<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-015</td>
<td>Wall bracket kit - use with 10-015 only. Includes screws to attach lubricator</td>
<td>18-001-009</td>
</tr>
<tr>
<td>10-015-002</td>
<td>Low oil level switch. Provides electrical signal for warning or shut-down when oil level is low.</td>
<td>10-015-504: 18-023-018, 10-015-005: 18-023-018, 10-015-006: 18-023-022, 10-015-007: 18-023-024</td>
</tr>
<tr>
<td>18-010-003</td>
<td>Quick fill cap. Use with Norgren 18-010-003 oil pump, pail, and hose assembly (see catalog sheet NC-26) to refill reservoir without shutting off air supply. Replaces fill plug.</td>
<td>18-011-006</td>
</tr>
<tr>
<td>10-015-002</td>
<td>Bowl guard for 10-015-002 and 10-015-100</td>
<td>18-012-002</td>
</tr>
<tr>
<td>18-010-003</td>
<td>Streamline wye 1/4 PTF male to 1/4 PTF female</td>
<td>18-006-016</td>
</tr>
<tr>
<td>18-010-003</td>
<td>Quick fill cap. Use with Norgren 18-010-003 oil pump, pail, and hose assembly (see catalog sheet NC-26) to refill reservoir without shutting off air supply. Replaces fill plug.</td>
<td>18-011-008</td>
</tr>
<tr>
<td></td>
<td>Pyrex/aluminum dome</td>
<td>5605-50</td>
</tr>
</tbody>
</table>

**10-015 Bracket**

(18-001-009)  

<table>
<thead>
<tr>
<th>Port Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>83 (3.25)</td>
</tr>
<tr>
<td>75 (2.94)</td>
</tr>
<tr>
<td>64 (2.52)</td>
</tr>
</tbody>
</table>

All Dimensions in Inches (mm)
## Relief Valve Accessories

All Dimensions in Inches (mm)

<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>V06</td>
<td>Wall bracket for V06 with plastic bonnet</td>
<td>18-025-003</td>
</tr>
<tr>
<td></td>
<td>Bracket and plastic nut: 2962-09</td>
<td>Plastic nut: 2962-89</td>
</tr>
<tr>
<td></td>
<td>Metal nut: 2962-04</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wall bracket for V06 with brass bonnet</td>
<td>18-001-021</td>
</tr>
<tr>
<td></td>
<td>Bracket and metal nut: 2962-04</td>
<td>Metal nut: 616-01</td>
</tr>
<tr>
<td></td>
<td>Tamper resistant knob kit</td>
<td>18-001-092</td>
</tr>
<tr>
<td>V07</td>
<td>Wall bracket with plastic nut</td>
<td>18-025-003</td>
</tr>
<tr>
<td></td>
<td>Bracket and plastic nut: 2962-89</td>
<td>Plastic nut: 2962-04</td>
</tr>
<tr>
<td></td>
<td>Tamper resistant knob kit</td>
<td>18-001-092</td>
</tr>
<tr>
<td>V64</td>
<td>Wall bracket</td>
<td>74504-50</td>
</tr>
<tr>
<td></td>
<td>Muffler</td>
<td>1/2 PTF: MB004A</td>
</tr>
<tr>
<td></td>
<td>R1/2: MB004B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tamper resistant cap</td>
<td>1581-90</td>
</tr>
<tr>
<td></td>
<td>Muffler</td>
<td>1/2 PTF: MB006A</td>
</tr>
<tr>
<td></td>
<td>R1/2: MB006B</td>
<td></td>
</tr>
</tbody>
</table>

### V06, V07 Bracket (18-025-003)

![Diagram of V06, V07 Bracket](image)

### V06 Bracket for Brass Bonnet (18-001-021)

![Diagram of V06 Bracket for Brass Bonnet](image)

### V64 Bracket (74504-50)

![Diagram of V64 Bracket](image)

### V68 Bracket (18-001-978)

![Diagram of V68 Bracket](image)

* Add 0.39" (10) for 1-1/4" ported yokes.
## Relief Valve Accessories

<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>V72</td>
<td>Wall bracket</td>
<td>4224-50</td>
</tr>
<tr>
<td></td>
<td>Wall bracket/plastic nut</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bracket and plastic nut: 74316-50</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plastic nut: 4248-89</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metal Nut: 4248-01</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tamper resistant cover and wire. Cover and wire: 4255-51</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wire: 2117-01</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tamper resistant cover and wire. Cover and wire: 4355-51</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wire: 2117-01</td>
<td></td>
</tr>
<tr>
<td>V74</td>
<td>Wall bracket</td>
<td>4324-50</td>
</tr>
<tr>
<td></td>
<td>Wall bracket/metal nut</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bracket and metal nut: 4368-51</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metal Nut: 4348-89</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tamper resistant cover and wire. Cover and wire: 4355-51</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wire: 2117-01</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lockout hasp.</td>
<td>54547-01</td>
</tr>
<tr>
<td></td>
<td>Allows use of up to 6 padlocks with 5/16&quot; (8mm) diameter shackle.</td>
<td></td>
</tr>
</tbody>
</table>

### V72 Bracket (4224-50)

- Port CL
- Dimension: 1.77 (45) x 1.50 (38) x 2.36 (60)

### V72 Neck Bracket (74316-02)

- Port CL
- Dimension: 1.9 (49) x 1.50 (38) x 2.36 (60)

### V74 Bracket (4324-50)

- Port CL
- Dimension: 2.88 (73) x 2.00 (51) x 3.25 (83)

### V74 Neck Bracket (4368-51)

- Port CL
- Dimension: 3.5 (89) x 2.06 (52) x 2.28 (57)
<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>T72</td>
<td>Wall bracket</td>
<td>4224-50</td>
</tr>
<tr>
<td></td>
<td>Mufflers (T72T)</td>
<td>54463-01</td>
</tr>
<tr>
<td></td>
<td>Diffuser (10-32 and M5):</td>
<td>54463-01</td>
</tr>
<tr>
<td></td>
<td>Muffler (10-32): MS000A</td>
<td>T40M0500</td>
</tr>
<tr>
<td></td>
<td>Muffler (M5):</td>
<td>T40M0500</td>
</tr>
<tr>
<td></td>
<td>Lockout hasp. (use only with T72E and T72T)</td>
<td>54547-01</td>
</tr>
<tr>
<td></td>
<td>Allows use of up to 6 padlocks with 5/16&quot; (8mm) diameter shackle.</td>
<td></td>
</tr>
<tr>
<td>T64</td>
<td>Muffler (T64T)</td>
<td>54547-01</td>
</tr>
<tr>
<td></td>
<td>Muffler (1/8 PTF): MS001A</td>
<td>T40B1800</td>
</tr>
<tr>
<td></td>
<td>Muffler (R1/8):</td>
<td>T40B1800</td>
</tr>
<tr>
<td></td>
<td>Lockout hasp.</td>
<td>54547-01</td>
</tr>
<tr>
<td></td>
<td>Allows use of up to 6 padlocks with 5/16&quot; (8mm) diameter shackle.</td>
<td></td>
</tr>
<tr>
<td>T68</td>
<td>Lockout hasp.</td>
<td>54547-01</td>
</tr>
<tr>
<td></td>
<td>Allows use of up to 6 padlocks with 5/16&quot; (8mm) diameter shackle.</td>
<td></td>
</tr>
<tr>
<td>T73</td>
<td>Mufflers (T73T)</td>
<td>54547-01</td>
</tr>
<tr>
<td></td>
<td>Diffuser (10-32 and M5):</td>
<td>54463-01</td>
</tr>
<tr>
<td></td>
<td>Muffler (10-32): MS000A</td>
<td>T40M0500</td>
</tr>
<tr>
<td></td>
<td>Muffler (M5):</td>
<td>T40M0500</td>
</tr>
<tr>
<td></td>
<td>Lockout hasp.</td>
<td>54547-01</td>
</tr>
<tr>
<td></td>
<td>Allows use of up to 6 padlocks with 5/16&quot; (8mm) diameter shackle.</td>
<td></td>
</tr>
<tr>
<td>T74</td>
<td>Muffler (T74T)</td>
<td>54547-01</td>
</tr>
<tr>
<td></td>
<td>Muffler (1/8 PTF): MS001A</td>
<td>T40B1800</td>
</tr>
<tr>
<td></td>
<td>Muffler (R1/8):</td>
<td>T40B1800</td>
</tr>
<tr>
<td></td>
<td>Lockout hasp.</td>
<td>54547-01</td>
</tr>
<tr>
<td></td>
<td>Allows use of up to 6 padlocks with 5/16&quot; (8mm) diameter shackle.</td>
<td></td>
</tr>
</tbody>
</table>
# Accessories

<table>
<thead>
<tr>
<th>Product</th>
<th>Accessory</th>
<th>Part No.</th>
</tr>
</thead>
</table>
| P72     | Mufflers for P72C and P72F | 1/4 PTF: MB002A  
|         |           | R1/4: MB002B |
|         | Lockout hasp for P72F.  
|         | Allows use of up to 6 padlocks with  
|         | 5/16" (8mm) diameter shackle.  
|         | 54547-01 |
| P64F    | Wall bracket | 74504-50 |
|         | Muffler | 1/2 PTF: MB004A  
|         |           | R1/2: MB004B |
|         | Lockout hasp.  
|         | Allows use of up to 6 padlocks with  
|         | 5/16" (8mm) diameter shackle.  
|         | 54547-01 |
| P68F    | Wall bracket | 3/4", 1", 1-1/4" Ports: 18-001-978  
|         | 1-1/2" Ports: Not Available |
|         | Muffler | 1" PTF: MB008A  
|         |           | R1: MB008B |
|         | Lockout hasp.  
|         | Allows use of up to 6 padlocks with  
|         | 5/16" (8mm) diameter shackle.  
|         | 54547-01 |
| P74     | Wall bracket | 4324-50 |
|         | Mufflers for P74C and P74F | 1/2 PTF: MB004A  
|         |           | R1/2: MB004B |
|         | Lockout hasp for P74F and P74C with lockout slide:  
|         | Allows use of up to 6 padlocks with  
|         | 5/16" (8mm) diameter shackle.  
|         | 54547-01 |

---

**P64 Bracket (74504-50)**

![P64 Bracket Diagram](image)

**P68 Bracket (18-001-978)**

![P68 Bracket Diagram](image)

**P74 Bracket (4324-50)**

![P74 Bracket Diagram](image)
4020-51R
ELECTRICAL SERVICE INDICATOR

- Switches when the differential pressure across the filter element exceeds the factory set differential pressure
- Can replace the standard mechanical Service Indicator on Norgren filters
- Can be field installed on Norgren F55, F73G, F73C, F74G, F74C, and F74H filters

Note: 17, 18, 72, 64, and 68 Series cannot be field converted. The electrical service indicator must be factory installed. It can be used replace the mechanical service life indicator.

Technical Data

- Maximum pressure: 250 psig (17 bar)
- Operating temperature*: +14° to +175°F (-10° to +80°C)
  * Air supply must be dry enough to avoid ice formation at temperatures below +35°F (+2°C).
- Maximum voltage: 240VAC/DC
- Maximum current: 5 Amp
- Protection: NEMA 4, IP 65
- Contacts: SPDT
- Connector: DIN 43650-C
- Connector plug: Cable grip for cables 1/4” to 9/32” (6.3 to 7.1 mm) diameter
- Switching pressures: Switches when differential pressure rises to between 8 and 12 psid (0.55 and 0.83 bar d). Resets when differential pressure falls below 3 psid (0.21 bar d).
- Body material: Nylon 6-GF
- Elastomer material: Nitrile

Ordering Information

<table>
<thead>
<tr>
<th>Model</th>
<th>Differential Pressure Factory Setting</th>
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<tbody>
<tr>
<td>4020-51R</td>
<td>10 psid (0.7 bar d)</td>
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