BL82 - Filter/regulator – Lubricator Combination Units
Exelcon® Plus Modular System

- Port size: 1/4" & 3/8" (ISO G/PTF)
- Unique Quikclamp connection system offers full modularity
- 40 micron particle and high efficiency water removal (> 95%)
- Double safety lock on bowl
- Integrated gauge
- Shut off valve, regulator and filter regulator with tamper resistance feature
- Metal bowl with prismatic liquid level indicator
- Light weight polycarbonate bowl
- Easy to read flush mounted integrated pressure gauge as standard
- All round (360°) visibility of sightdome for ease of drip rate setting

Technical features

Medium:
- Compressed air only

Maximum supply pressure:
- Polycarbonate bowl: 10 bar (145 psi)
- Metal bowl: 17 bar (246 psi)

Outlet pressure ranges:
- 0.3 ...10 bar (4 ... 145 psi)

Filter element:
- 40 μm

Port size:
- G1/4, G3/8, 1/4 PTF, 3/8 PTF

Gauge:
- Integrated as standard

Diaphragm Type:
- Relieving
- Manual or automatic
- Automatic drain operating conditions (float operated):
  - Bowl pressure required to close drain: > 0.35 bar (5 psi)
  - Bowl pressure required to open drain: ≤ 0.2 bar (2.9 psi)
  - Minimum air flow required to close drain: 1 dm³/s.

Ambient/Media temperature:
- -10 ... +60°C (+14 ... +140°F)
- Metal bowl:
  - -20 ... +65°C (-4 ... +149°F)
- Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:
- Body: Die cast aluminum
- Body covers: ABS
- Bonnet: Acetal
- Valve: PP
- Transparent Bowl: Polycarbonate with Polypropylene Guard
- Metal Bowl: Die cast Zinc with PA liquid level indicator lens
- Filter element: sintered PP
- Bowl 'o'- ring: Chloroprene Elastomers: NBR

Technical data BL82—standard models

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Port Size</th>
<th>Shut off Valve</th>
<th>Drain</th>
<th>Lubricator Type</th>
<th>Weight (kg)</th>
<th>Model *1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/4</td>
<td>With</td>
<td>Manual</td>
<td>Microfog</td>
<td>1,30</td>
<td>BL82-221G</td>
<td></td>
</tr>
<tr>
<td>G3/8</td>
<td>With</td>
<td>Manual</td>
<td>Microfog</td>
<td>1,30</td>
<td>BL82-321G</td>
<td></td>
</tr>
<tr>
<td>G1/4</td>
<td>With</td>
<td>Auto</td>
<td>Microfog</td>
<td>0,90</td>
<td>BL82-201G</td>
<td></td>
</tr>
<tr>
<td>G3/8</td>
<td>With</td>
<td>Auto</td>
<td>Microfog</td>
<td>0,90</td>
<td>BL82-301G</td>
<td></td>
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<tr>
<td>G1/4</td>
<td>Without</td>
<td>Manual</td>
<td>Microfog</td>
<td>1,00</td>
<td>BL82-225G</td>
<td></td>
</tr>
<tr>
<td>G3/8</td>
<td>Without</td>
<td>Manual</td>
<td>Microfog</td>
<td>1,00</td>
<td>BL82-225G</td>
<td></td>
</tr>
<tr>
<td>G1/4</td>
<td>Without</td>
<td>Auto</td>
<td>Microfog</td>
<td>0,60</td>
<td>BL82-205G</td>
<td></td>
</tr>
<tr>
<td>G3/8</td>
<td>Without</td>
<td>Auto</td>
<td>Microfog</td>
<td>0,60</td>
<td>BL82-205G</td>
<td></td>
</tr>
</tbody>
</table>

*1) All models shown here are supplied with integrated gauge applicable for flow direction left to right.
   With flow direction right to left please use the online configurator www.imi-precision.com/air-preparation-configurator or contact IMI Norgren

In addition to the standard box set units shown on this data sheet, further combinations can be configured using our online Air Preparation configurator:
www.imi-precision.com/air-preparation-configurator

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### Option selector *

<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>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Units</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter/Regulator w. auto drain, Micro fog lubricator, Polycarbonate bowls</td>
<td>0</td>
</tr>
<tr>
<td>Filter/Regulator w. auto drain, Oil fog lubricator, Polycarbonate bowls</td>
<td>1</td>
</tr>
<tr>
<td>Filter/Regulator w. manual drain, Micro fog lubricator, Polycarbonate bowls</td>
<td>2</td>
</tr>
<tr>
<td>Filter/Regulator w. manual drain, Oil fog lubricator, Polycarbonate bowls</td>
<td>3</td>
</tr>
<tr>
<td>Filter/Regulator w. auto drain, Micro fog lubricator, Metal bowls</td>
<td>5</td>
</tr>
<tr>
<td>Filter/Regulator w. auto drain, Oil fog lubricator, Metal bowls</td>
<td>6</td>
</tr>
<tr>
<td>Filter/Regulator w. manual drain, Micro fog lubricator, Metal bowls</td>
<td>7</td>
</tr>
<tr>
<td>Filter/Regulator w. manual drain, Oil fog lubricator, Metal bowls</td>
<td>8</td>
</tr>
</tbody>
</table>

*1) All models shown here are applicable for flow direction left to right.
With flow direction right to left please use the online configurator www.imi-precision.com/air-preparation-configurator or contact IMI Norgren.

### Flow characteristics

Inlet pressure: 10 bar (145 psi)
Range: 0.3 to 10 bar (4 to 145 psi)
Port size: 1/4", 40 μm element

![Flow characteristic graph for 1/4" port size](image)

Inlet pressure: 10 bar (145 psi)
Range: 0.3 to 10 bar (4 to 145 psi)
Port size: 3/8", 40 μm element

![Flow characteristic graph for 3/8" port size](image)
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**Accessories**

- **Quikclamp®**
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  - 820014-51KIT

- **Quikclamp® with bracket assembled**
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  - 820014-52KIT

- **Pressure sensing block 1/4 PTF**
  - Page 6
  - 820016-50KIT

- **Pressure sensing block G1/4**
  - Page 6
  - 820016-51KIT

- **Integrated gauge 10 bar gauge**
  - Page 7
  - 820073-01KIT

- **Integrated gauge 20 bar gauge**
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  - 820073-02KIT

- **Integrated gauge 4 bar gauge**
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  - 820073-03KIT

- **Gauge adaptor kit 1/8 PTF**
  - Page 7
  - 820100-01KIT

- **Gauge adaptor kit R 1/8**
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  - 820100-02KIT

- **Porting block 3/8” PTF**
  - Page 8
  - 820028-50KIT

- **Porting block G3/8**
  - Page 7
  - 820028-53KIT

- **Pressure switch interface block (18D pressure switch) G1/4**
  - Page 7
  - 0523109000000000

- **Pressure switch 18D (0...8 bar) **
  - Page 7
  - 08B1300

- **Digital pressure switch 51D (-1...10 bar)**
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  - 0860810

- **Connector B4-B2 Series**
  - Page 7
  - 4417-01

- **Port Adaptors**
  - **1/4 PTF**
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    - 820015-02KIT

  - **3/8 PTF**
    - Page 7
    - 820015-03KIT

  - **G1/4**
    - Page 7
    - 820015-08KIT

  - **G3/8**
    - Page 7
    - 820015-09KIT

- **Padlock**
  - Page 8
  - B4a0055-01KIT

- **Lockout device**
  - Page 8
  - B4a0055-02KIT

- **Silencer**
  - **Porous plastic silencer**
    - **G1/4**
    - Page 8
    - M/S2
    - 0014600000000000

  - **Porous plastic silencer 1/4 PTF**
    - Page 8
    - MS002A

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*1) Flanged version. For other pressure ranges, please see data sheet 5.11.001*

*2) For other pressure ranges, please see data sheet 5.11.385*

*3) For connection please use Quikclamp B2 series and Hybrid-Quikclamp B4 series*

*3) Max. pressure of silencers listed in this data sheet : 10 bar. For pressure higher than 10 bar please contact IMI Norgren*
Maintenance/Service

<table>
<thead>
<tr>
<th>Auto drain kit with metal Nut - Imperial</th>
<th>Auto drain kit with metal Nut - Metric</th>
<th>R84 / B84 Elastomer Kit</th>
<th>Filter cartridges 40 micron</th>
</tr>
</thead>
<tbody>
<tr>
<td>6000-61KIT</td>
<td>6000-60KIT</td>
<td>FRLB82-KIT</td>
<td>820038-51KIT</td>
</tr>
</tbody>
</table>

Spare parts

<table>
<thead>
<tr>
<th>Filter Bowl (Guarded Poly bowl with auto drain 6 mm PIF)</th>
<th>Filter Bowl (Guarded Poly bowl with manual drain)</th>
<th>Filter Bowl (Metal with S/Glass &amp; auto drain, 6 mm PIF)</th>
<th>Filter Bowl (Metal with S/Glass &amp; manual drain)</th>
</tr>
</thead>
<tbody>
<tr>
<td>820025-51KIT</td>
<td>820025-50KIT</td>
<td>820003-51KIT</td>
<td>820003-50KIT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lubricator bowl</th>
<th>Lubricator bowl</th>
<th>Lubricator sight dome kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guarded Poly</td>
<td>Metal with sight glass</td>
<td>Micro fog (red) &amp; Oil fog (green)</td>
</tr>
<tr>
<td>820025-52KIT</td>
<td>820003-52KIT</td>
<td>840055-50KIT 840055-51KIT</td>
</tr>
</tbody>
</table>

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Dimensions
Shut-off valve, Filter/regulator and Lubricator

Dimensions in mm
Projection/First angle

# Minimum clearance for bowl removal
Dimensions
Filter/regulator and Lubricator
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Warning

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

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

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.