B84G - Excelon® Plus Modular System
General purpose filter/regulator

> Port size: 3/8" ... 3/4" (ISO G/PTF)
> Excelon® Plus design allows in-line installation or modular installation with other Excelon® Plus products
> 5 or 40 micron particle and high efficiency water removal (> 98%)
> Double safety lock bowl

Technical features

- Medium: Compressed air only
- Maximum supply pressure: Polycarbonate bowl: 10 bar (145 psi), Metal bowl: 20 bar (290 psi)
- Outlet pressure ranges: 0,3 ... 10 bar (4 ... 145 psi), 0,3 ... 4 bar (4 ... 58 psi) optional, 0,7 ... 17 bar (2 ... 250 psi) optional
- Filter element: 5 μm & 40 μm
- Port size: G3/8, G1/2, G3/4, 3/8 PTF, 1/2 PTF, 3/4 PTF
- Gauge: Integrated as standard, Gauge port 1/8 as option

Flow:
100 dm³/s
At port size: 1/2", inlet pressure 10 bar (145 psi), 6,3 bar (91 psi) set pressure and a Δp: 1 bar (14,5 psi) droop from set.
Filter element: 40 μm

Diaphragm Type:
Relieving

Drain:
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 (2 scfm)

Ambient/Media temperature:
- Polycarbonate bowl: -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 aluminium
- Body covers: ABS
- Bonnet: Acetal/ Aluminium
- Valve: PP
- Bowl: Transparent PC with PP guard or die cast aluminium
- Liquid level indicator lens (metal bowl): PA
- Filter element: sintered PP
- Bowl ‘o’- ring: Chloroprene
- Elastomers: NBR

Technical data B84G - standard models

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Port size</th>
<th>Drain</th>
<th>Pressure range (bar)</th>
<th>Filter element (μm)</th>
<th>Bowl</th>
<th>Weight (kg)</th>
<th>Model *1)</th>
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*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/ar-preparation-configurator or contact IMI Norgren

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**Flow characteristics**

Inlet pressure: 10 bar (145 psi)
Port size: 1/2", 40 µm element

![Graph showing outlet pressure vs. air flow](image)

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*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](http://www.imi-precision.com/air-preparation-configurator) or contact IMI Norgren.

*2) Units with 17 bar outlet pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th position and S at the 9th position. T-bar handle only available with 17 bar option.

*3) 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.
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### Maintenance/Service

<table>
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<tr>
<th>Auto drain kit with metal Nut - Imperial</th>
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<th>B84 / B84 Elastomer Kit</th>
<th>Filter cartridges 5 micron</th>
<th>Filter cartridges 40 micron</th>
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<tr>
<td>6000-61KIT</td>
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<td>FRLB84-KIT</td>
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### Spare parts

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<th>Filter Bowl (Metal with S/Glass &amp; auto drain, 6 mm PIF)</th>
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<td>840025-51KIT</td>
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Accessories

**Quikclamp® with wall bracket**

**Quikclamp®**

**Neck mounting bracket**

**Panel mounting nut**

**Mounting bracket**
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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 IMI Precision Engineering, 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.