R74G, R74R - EXCELON® Modular System
Pressure regulators

> Port size: 3/8” ... 3/4” (ISO G/NPT)
> Excelon design allows in-line or modular installation
> Push to lock adjusting knob with tamper resistant accessory

Technical features
- **Medium:** Compressed air only
- **Maximum operating pressure:** 20 bar (300 psi)
- **Pressure range:***
  - Standard: 0,3 ... 10 bar (4 ... 145 psi)
  - Optional: 0,3 ... 4 bar (4 ... 58 psi)
  - 0,7 ... 17 bar (10 ... 250 psi)
- **Flow:** 105 dm³/s maximum
  - At port size: 1/2”
- **Ambient/Media temperature:** -34° ... +80°C (-30° ... +176°F)
  - Version with gauge: -34° ... +65°C (-30° ... +149°F)
- **Materials:**
  - Body & Bonnet: Die cast aluminium
  - Bottom plug: Acetal
  - Elastomers: NBR

Technical data R74G - standard models

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Port size</th>
<th>Size</th>
<th>Pressure range (bar)</th>
<th>Adjustment</th>
<th>Weight (kg)</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3/8</td>
<td>—</td>
<td>0,3</td>
<td>3 ... 10</td>
<td>Knob</td>
<td>0,82</td>
<td>R74G-3GK-RMN</td>
</tr>
<tr>
<td>G1/2</td>
<td>Basic</td>
<td>0,3</td>
<td>3 ... 10</td>
<td>Knob</td>
<td>0,80</td>
<td>R74G-4GK-RMN</td>
</tr>
<tr>
<td>G3/4</td>
<td>—</td>
<td>0,3</td>
<td>3 ... 10</td>
<td>Knob</td>
<td>0,78</td>
<td>R74G-6GK-RMN</td>
</tr>
</tbody>
</table>

Technical data R74R - Reverse flow

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Port size</th>
<th>Size</th>
<th>Pressure range (bar)</th>
<th>Adjustment</th>
<th>Weight (kg)</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3/8</td>
<td>—</td>
<td>0,3</td>
<td>3 ... 10</td>
<td>Knob</td>
<td>0,82</td>
<td>R74R-3GK-RMN</td>
</tr>
<tr>
<td>G1/2</td>
<td>Basic</td>
<td>0,3</td>
<td>3 ... 10</td>
<td>Knob</td>
<td>0,80</td>
<td>R74R-4GK-RMN</td>
</tr>
<tr>
<td>G3/4</td>
<td>—</td>
<td>0,3</td>
<td>3 ... 10</td>
<td>Knob</td>
<td>0,78</td>
<td>R74R-6GK-RMN</td>
</tr>
</tbody>
</table>

Option selector

- **Return valve:**
  - Without (standard) G
  - Integrated R
- **Port size:**
  - 3/8” 3
  - 1/2” 4
  - 3/4” 6
- **Thread form:**
  - PTF A
  - SO G parallel (standard) G
- **Adjustment:**
  - Knob (standard) K
  - T-bar T

R74G - without return valve
R74R - with return valve

Outlet pressure adjustment range
- 0,3 ... 4 bar F
- 0,3 ... 10 bar (standard) M
- 0,7 ... 17 bar S

Diaphragm
- Relieving (standard) R
- Non relieving N

Gauge
- With G
- Without (standard) N

*1) 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.

*2) 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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Flow characteristics
Inlet pressure: 10 bar (145 psi)
Port size: 1/2"

Outlet pressure
0 2 4 6 8
Air flow
0 20 40 60 80 100 dm³/s

Inlet pressure: 7 bar (101 psi)
Port size: 1/2"

Outlet pressure
0 2 4 6 8
Air flow
0 20 40 60 80 100 dm³/s

Accessories
Wall mounting bracket
Quikclamp®
Quikclamp with wall bracket®
Neck mounting bracket
Panel nut
Tamper resistant kit

Wall mounting bracket
Quikclamp®
Quikclamp with wall bracket®
Neck mounting bracket
Panel nut
Tamper resistant kit

Porting block with three alternative 1/4" ports
2/2 Shut-off valves (for full technical specification see datasheet 8.200.600)
3/2 Shut-off valves (for full technical specification see datasheet 8.200.600)

Pressure switch
Porting block (0.5 ... 8 bar)
Pressure switch
Padlock (brass) with two keys *1
Padlock

Pressure switch
Porting block for pressure switch
Pressure switch (0.5 ... 8 bar)
Padlock

0523110000000000
0881300000000000
0613633000000000
R74G-KITR

*1) Please use a Quikmount pipe adaptor if the Quikclamp be mounted at inlet or outlet side.

*1) For shut-off valves and tamper resistant kit
Gauge

Center back connection, white face
(for full technical specification see datasheet 8.900.900)

<table>
<thead>
<tr>
<th>Pressure range</th>
<th>psi</th>
<th>Ø</th>
<th>Thread size</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ... 6 bar</td>
<td>0 ... 0.8</td>
<td>50 mm</td>
<td>R1/8</td>
<td>18-015-012</td>
</tr>
<tr>
<td>0 ... 10 bar</td>
<td>0 ... 1</td>
<td>50 mm</td>
<td>R1/8</td>
<td>18-015-013</td>
</tr>
<tr>
<td>0 ... 25 bar</td>
<td>0 ... 2.5</td>
<td>50 mm</td>
<td>R1/8</td>
<td>18-015-014</td>
</tr>
</tbody>
</table>

*1) primary scale

Center back connection, black face
for North America
(for full technical specification see datasheet 8.900.900)

<table>
<thead>
<tr>
<th>Pressure range</th>
<th>psig *1</th>
<th>bar</th>
<th>Ø</th>
<th>Thread size</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ... 0.4</td>
<td>0 ... 6 bar</td>
<td>2&quot; (50 mm)</td>
<td>1/4 NPT</td>
<td>18-015-208</td>
<td></td>
</tr>
<tr>
<td>0 ... 1.1</td>
<td>0 ... 10 bar</td>
<td>2&quot; (50 mm)</td>
<td>1/4 NPT</td>
<td>18-015-209</td>
<td></td>
</tr>
<tr>
<td>0 ... 2.1</td>
<td>0 ... 300 bar</td>
<td>2&quot; (50 mm)</td>
<td>1/4 NPT</td>
<td>18-015-210</td>
<td></td>
</tr>
</tbody>
</table>

*1) primary scale

Drawings

Standard

T-bar

Accessories

Quikclamp®

Quikclamp® with wall bracket

Porting block

Pipe adapter

Dimensions in mm
Projection/First angle

Main ports 3/8", 1/2" or 3/4"

Reduces by 4 mm with knob in locked position

Panel thickness 2 ... 6 mm

Gauge port Rc1/8 for ISO G and 1/4 PTF for PTF main ports

Alternative gauge port plugged

Main ports 3/8", 1/2" or 3/4"

Ports 1/4" ISO G/PTF plugged

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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 GmbH.

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.