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
- Optional reverse flow models available for use downstream of directional control valves
- Modular installations with EXCELON 72, 73, and 74 series can be made to suit particular applications

**Technical Data**

- Fluid: Compressed air
- Maximum pressure: 20 bar (300 psig)
- Operating temperature*: -20° to 80°C (0° to 175°F)
  - Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).
- Typical flow with 10 bar (150 psig) inlet pressure, 6.3 bar (90 psig) set pressure and a droop of 1 bar (15 psig) from set:
  - 105 dm³/s (220 scfm)

**Gauge ports:**
- 1/4 PTF with PTF main ports
- Rc1/4 with ISO Rc main ports
- Rc1/8 with ISO G main ports

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

**Ordering Information**

See *Ordering Information* on the following pages.

**ISO Symbols**

- R74G Relieving
- R74G Non Relieving
- R74R Relieving
- R74R Non Relieving

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Our policy is one of continuous research and development.
We reserve the right to amend, without notice, the specifications given in this document.
Typical Performance Characteristics

![Flow Characteristics Graphs]

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

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Flow dm$^3$/s (scfm)</th>
<th>Weight kg (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3/8</td>
<td>R74G-3GK-RMN</td>
<td>98 (208)</td>
<td>0.82 (1.80)</td>
</tr>
<tr>
<td>G1/2</td>
<td>R74G-4GK-RMN</td>
<td>105 (220)</td>
<td>0.80 (1.77)</td>
</tr>
<tr>
<td>G3/4</td>
<td>R74G-6GK-RMN</td>
<td>105 (220)</td>
<td>0.78 (1.73)</td>
</tr>
</tbody>
</table>

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

**Alternative Models**

- **Flow Type Substitute**
  - Uni-directional: G
  - Reverse: R

- **Port Size Substitute**
  - 3/8": 3
  - 1/2": 4
  - 3/4": 6

- **Threads Substitute**
  - PTF: A
  - ISO Rc taper: B
  - ISO G parallel: G

- **Adjustment Substitute**
  - Knob: K
  - T-bar: T

- **Gauge Substitute**
  - With: G
  - Without: N

- **Outlet Pressure Adjustment Range* Substitute**
  - 0.3 to 4 bar (5 to 60 psig): F
  - 0.3 to 10 bar (5 to 150 psig): M
  - 0.7 to 17 bar (10 to 250 psig)**: S

- **Diaphragm Substitute**
  - Relieving: R
  - Non relieving: 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.

** Units with 17 bar (250 psig) outlet pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th position and S at the 9th position.

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Accessories

<table>
<thead>
<tr>
<th>Wall Mounting Bracket</th>
<th>Quikclamp and Quikclamp Wall Bracket</th>
<th>Panel Nut</th>
<th>Tamper Resistant Cover &amp; Seal Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>4324-50</td>
<td>4314-52</td>
<td>4348-89</td>
<td>4355-51</td>
</tr>
<tr>
<td>Seal Wire: 2117-01</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Dimensions mm (inches)**

- Panel mounting hole diameter: 52 mm (2.06")
- Panel thickness: 2 to 6 mm (0.06" to 0.25")

†† Use padlock with shackle up to 8 mm (0.3") in diameter.
Bracket Mounting

Mounting Bracket
Use 5 mm (3/16") screws to mount bracket to wall.

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>4381-700</td>
</tr>
<tr>
<td></td>
<td>Non relieving</td>
<td>4381-701</td>
</tr>
</tbody>
</table>

Service kit includes diaphragm assembly, valve assembly, valve spring, bottom plug o-ring.

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 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.

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.