Technical features

Medium:
Compressed air only

Maximum operating pressure:
20 bar (290 psi)

Port size:
(standard) 0.4 ... 8 bar (5.8 ... 116 psi) (optional)
0.3 ... 4 bar (4.3 ... 58 psi),
0.7 ... 17 bar (10 ... 246 psi)

Non-rising adjusting knob has snap-action lock

Diaphragm and balanced valve design ensure good regulation characteristics

Technical data, standard models with relieving

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Port size</th>
<th>Size</th>
<th>Pressure range (bar)</th>
<th>Flow *1) (dm³/s)</th>
<th>Adjustment</th>
<th>Weight (kg)</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3/4</td>
<td>—</td>
<td>—</td>
<td>0.4 ... 8</td>
<td>150</td>
<td>Knob</td>
<td>1.95</td>
<td>R68G-6GK-RLN</td>
</tr>
<tr>
<td>G1</td>
<td>Basic</td>
<td>—</td>
<td>0.4 ... 8</td>
<td>170</td>
<td>Knob</td>
<td>1.89</td>
<td>R68G-8GK-RLN</td>
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<tr>
<td>G1 1/4</td>
<td>—</td>
<td>—</td>
<td>0.4 ... 8</td>
<td>170</td>
<td>Knob</td>
<td>1.93</td>
<td>R68G-AGK-RLN</td>
</tr>
<tr>
<td>G1 1/2</td>
<td>—</td>
<td>—</td>
<td>0.4 ... 8</td>
<td>170</td>
<td>Knob</td>
<td>1.97</td>
<td>R68G-BGK-RLN</td>
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<tr>
<td>Without yoke</td>
<td>—</td>
<td>—</td>
<td>0.4 ... 8</td>
<td>170</td>
<td>Knob</td>
<td>1.16</td>
<td>R68G-NNK-RLN</td>
</tr>
</tbody>
</table>

| Port size: | 3/4" ... 1 1/2" (ISO G/PTF) |
| Non-rising adjusting knob has snap-action lock |
| Diaphragm and balanced valve design ensure good regulation characteristics |

Ambient/Media temperature:
-20° ... +80°C (-4° ... +176°F)

Version with gauge:
-20° ... +65°C (-4° ... +149°F)

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

Technically, all models are suitable for use with dry and clean air. The pressure range 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 (246 psi) outlet pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th digit and S at the 9th position.

Gauge substitutability:
With: G
Without (standard): N
Pressure range (bar) *2: Substitute
0.3 ... 4: F
0.4 ... 8 (standard): L
0.7 ... 17: S *3)

Diaphragm substitutability:
Relieving (standard): R
Non-relieving: N

Materials:
Body, yoke and bonnet: Aluminium
Adjusting knob: Acetal resin
Elastomers: NBR

*1) Typical flow with 10 bar (145 psi) inlet pressure, and 6.3 bar (91 psi) set pressure and 1 bar (14.5 psi) drop from set.

*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.

*3) Units with 17 bar (246 psi) outlet pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th digit and S at the 9th position.
Flow characteristics

Port size 1”
Pressure range 0,4 ... 8 bar
Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2011 - 8090d) © 2015 IMI International s.r.o.
R68G - Olympian Plus plug-in system
Pressure regulator

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**Dimensions**

**Standard T-bar**

- Main ports 3/4", 1", 1 1/4" or 1 1/2"
- Plus 10 mm for ports 1 1/4" or 1 1/2"
- Reduces by 4 mm with knob in locked position
- Gauge port 1/8"

**Projection/First angle**

# Minimum clearance required to remove unit from yoke

1. Main ports 3/4", 1", 1 1/4" or 1 1/2"
2. Plus 10 mm for ports 1 1/4" or 1 1/2"
3. Reduces by 4 mm with knob in locked position
4. Gauge port 1/8"

**Single yoke with bracket**

- For 1 1/4" and 1 1/2" ported yokes add 10 mm

**Double yoke with bracket**

- For 1 1/4" and 1 1/2" ported yokes add 10 mm
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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, IMI International s.r.o.

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.