Energy Saving

Pressure and Flow Monitoring

Low Consumption Solenoid Valves

Air Blow

Energy Saving Cylinders and Accessories

Vacuum Equipment

Pressure Boosters

• Booster regulator ……………. Series VBA

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**Series VBAs**

**Booster regulator**

- **Series VBAT - Air Tank**
  Small capacity tank to which a VBA booster regulator can be connected directly.

- **Series VBA43A**
  **New** – Max. operating pressure 1.6 MPa.

- **Series VBA22A/42A**
  **New** air operated type.

**Application examples**

- A small cylinder is required while ensuring enough power: compact drive unit.
- The pressure in one of the chambers of the cylinder needs boosting.
- Tank fill at atmospheric pressure in a short time.
- A small cylinder is required while ensuring enough power: compact drive unit.
- The pressure in one of the chambers of the cylinder needs boosting.

**Benefits**

- Improved service life
  New construction with a floating piston.
- Reduced noise
  A damper reduces metal noise. A high-noise reduction silencer reduces exhaust noise.
- Improved reliability
  Built-in mesh filter in the IN port.
- Anti-condensation
  Integrated air-feeding tube within the main tube.

**Part Numbers**

<table>
<thead>
<tr>
<th>Part number</th>
<th>Operating range (MPa)</th>
<th>Flow rate (l/min)</th>
<th>Port size</th>
<th>Pressure ratio</th>
<th>Circuit Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>VBA1111-F02</td>
<td>0.2 - 2.0</td>
<td>60</td>
<td>G1/4”</td>
<td>max. 4 : 1</td>
<td></td>
</tr>
<tr>
<td>VBA1110-F02</td>
<td>0.2 - 2.0</td>
<td>200</td>
<td>G3/8”</td>
<td>max. 2 : 1</td>
<td></td>
</tr>
<tr>
<td>VBA20A-F03</td>
<td>0.2 - 1.0</td>
<td>1000</td>
<td>G1/2”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VBA22A-F03</td>
<td>0.2 - 1.0</td>
<td>1900</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VBA40A-F04</td>
<td>0.2 - 1.6</td>
<td>1600</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VBA42A-F04</td>
<td>0.2 - 1.6</td>
<td>1600</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>VBA43A-F04</td>
<td>0.2 - 1.6</td>
<td>1600</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Accessories**

- Pressure gauge: G27-20-R1, G36-10-01, KT-VBA22A-7, G36-10-01, KT-VBA43A-7
- Silencer: AN200-02, AN300-03, AN400-04
- High noise reduction silencer: –, ANA1-03, ANA1-04
- Air tank: VBAT05AF-SV-Q, VBAT10AF-SV-Q, VBAT10AF-RV-Q, VBAT20AF-RV-Q, VBAT38AF-RV-Q, VBAT20AF-RV-Q, VBAT38AF-RV-Q, –

Initially, inlet pressure (P₁) passes through the check valve, fills P₂, and results in P₁ = P₂.