## Modular Type Regulator with Built-in Pressure Gauge

### Series ARG

<table>
<thead>
<tr>
<th>Regulator with Built-in Pressure Gauge Series ARG</th>
<th>Model</th>
<th>Port size</th>
<th>Accessory</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ARG20</td>
<td>1/8, 1/4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ARG30</td>
<td>1/4, 3/8</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ARG40</td>
<td>1/4, 3/8, 1/2</td>
<td>Bracket Set nut for changing the mounting angle of pressure gauges</td>
</tr>
</tbody>
</table>

### Pages 562 to 565

<table>
<thead>
<tr>
<th>Regulator with Built-in Pressure Gauge with Backflow Function Series ARGK</th>
<th>Model</th>
<th>Port size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ARG20K</td>
<td>1/8, 1/4</td>
</tr>
<tr>
<td></td>
<td>ARG30K</td>
<td>1/4, 3/8</td>
</tr>
<tr>
<td></td>
<td>ARG40K</td>
<td>1/4, 3/8, 1/2</td>
</tr>
</tbody>
</table>
### Regulator with Built-in Pressure Gauge

**Series ARG20/30/40**

#### How to Order

<table>
<thead>
<tr>
<th>Body size</th>
<th>Symbol</th>
<th>Port size</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>20</td>
<td>1/8</td>
</tr>
<tr>
<td>30</td>
<td>30</td>
<td>3/8</td>
</tr>
<tr>
<td>40</td>
<td>40</td>
<td>1/2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Thread type</th>
<th>Symbol</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>Fc</td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>NPT</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>G</td>
<td></td>
</tr>
</tbody>
</table>

#### Port size

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Port size</th>
<th>Body size</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>1/8</td>
<td>20 30 40</td>
</tr>
<tr>
<td>02</td>
<td>1/4</td>
<td>- - -</td>
</tr>
<tr>
<td>03</td>
<td>3/8</td>
<td>- - -</td>
</tr>
<tr>
<td>04</td>
<td>1/2</td>
<td>- - -</td>
</tr>
</tbody>
</table>

#### Option (1)

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>-</td>
</tr>
<tr>
<td>B</td>
<td>With bracket (With set nuts)</td>
</tr>
</tbody>
</table>

#### Option (2)

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>-</td>
</tr>
<tr>
<td>H</td>
<td>With set nuts</td>
</tr>
</tbody>
</table>

#### Semi-standard

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>-</td>
</tr>
<tr>
<td>1 [2]</td>
<td>0.02 to 0.2 MPa setting</td>
</tr>
<tr>
<td>N</td>
<td>Non-relieving type</td>
</tr>
<tr>
<td>Z [3]</td>
<td>Name plate and pressure gauge in imperial units (psi)</td>
</tr>
</tbody>
</table>

* When more than one specification is required, indicate in ascending alphanumeric order.

Note 2) Adjusting spring and pressure gauge (full-span 0.3 MPa) are different from those for the standard specification. All products can be set at 0.2 MPa or more.

Note 3) For thread type NPT. This product is for overseas use only according to the new Measurement Law. (The SI unit type is provided for use in Japan.)

#### Mounting Angle of Pressure Gauge

<table>
<thead>
<tr>
<th>Symbol</th>
<th>0°</th>
<th>90°</th>
<th>180°</th>
<th>270°</th>
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</thead>
<tbody>
<tr>
<td>G1</td>
<td>IN</td>
<td>OUT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G2</td>
<td>IN</td>
<td>OUT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G3</td>
<td>IN</td>
<td>OUT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G4</td>
<td>IN</td>
<td>OUT</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Mounting angles other than 45°, 135°, 225° and 315° are available through the Made to Order (page 572).

* Possible to change to the optional mounting angles. For details, refer to page 584, "Procedure for replacing or changing the mounting angle of a pressure gauge".

#### Option/Semi-standard Combinations

<table>
<thead>
<tr>
<th>Option/Semi-standard specifications</th>
<th>Combination</th>
<th>Symbol</th>
<th>Option</th>
<th>Semi-standard</th>
<th>Applicable regulator</th>
</tr>
</thead>
<tbody>
<tr>
<td>With bracket specifications</td>
<td></td>
<td></td>
<td>B</td>
<td></td>
<td>ARG20 to 40</td>
</tr>
<tr>
<td>With set nut</td>
<td></td>
<td></td>
<td>H</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.02 to 0.2 MPa setting</td>
<td>-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-relieving type</td>
<td>-N</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name plate and pressure gauge in imperial units (psi)</td>
<td>-Z</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

© Combination available
△ Combination not available
△ Available only with NPT thread
Regulator with Built-in Pressure Gauge  
Series ARG20/30/40

**Standard Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>ARG20</th>
<th>ARG30</th>
<th>ARG40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port size</td>
<td>1/8, 1/4</td>
<td>1/4, 3/8</td>
<td>1/4, 3/8, 1/2</td>
</tr>
<tr>
<td>Fluid</td>
<td>Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proof pressure</td>
<td>1.5 MPa</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum operating pressure</td>
<td>1.0 MPa</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regulating pressure range</td>
<td>0.05 to 0.85 MPa</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relief pressure</td>
<td>Set pressure + 0.05 MPa (at relief flow rate of 0.1 L/min (ANR))</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambient and fluid temperature</td>
<td>–5 to 60°C (With no freezing)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>Relieving type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>0.21</td>
<td>0.40</td>
<td>0.57</td>
</tr>
</tbody>
</table>

**Option Part No.**

<table>
<thead>
<tr>
<th>Option</th>
<th>Applicable model</th>
<th>ARG20</th>
<th>ARG30</th>
<th>ARG40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bracket assembly (1)</td>
<td>ARG20P-270AS</td>
<td>ARG30P-270AS</td>
<td>ARG40P-270AS</td>
<td></td>
</tr>
<tr>
<td>Set nut</td>
<td>ARG20P-260S</td>
<td>ARG30P-260S</td>
<td>ARG40P-260S</td>
<td></td>
</tr>
</tbody>
</table>

**Flow Characteristics (Representative Values)**

Condition: Inlet pressure 0.7 MPa

**Pressure Characteristics (Representative Values)**

Conditions: Inlet pressure 0.7 MPa, Outlet pressure 0.2 MPa, Flow rate 20 L/min (ANR)
**Warning**

1. Releasing the inlet pressure does not mean that all residual pressure is released (the outlet pressure cannot be released). When releasing residual pressure, use a regulator with a backflow function.

**Mounting and Adjustment**

**Warning**

1. Set the regulator while verifying the displayed values of the inlet and outlet pressure gauges. Turning the regulator handle excessively can cause damage to the internal parts.
2. Do not use tools on the pressure regulator handle as this may cause damage. It must be operated manually.

**Caution**

1. Be sure to unlock the handle before adjusting the pressure and lock it after setting the pressure. Failure to follow this procedure can cause damage to the handle and the outlet pressure may fluctuate.
   - Pull the pressure regulator handle to unlock. (You can visually verify this with the “orange mark” that appears in the gap.)
   - Push the pressure regulator handle to lock. When the handle is not easily locked, turn it left and right a little and then push it (when the handle is locked, the “orange mark”, i.e., the gap will disappear).

2. When using the regulator between a solenoid valve and an actuator, check the pressure gauge periodically.

---

### Component Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>ARG20</th>
<th>ARG30</th>
<th>ARG40</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>ADC</td>
<td></td>
<td></td>
<td></td>
<td>Platinum silver</td>
</tr>
<tr>
<td>2</td>
<td>Bonnet</td>
<td>PBT</td>
<td></td>
<td></td>
<td></td>
<td>Black</td>
</tr>
<tr>
<td>3</td>
<td>Handle</td>
<td>POM</td>
<td></td>
<td></td>
<td></td>
<td>Black</td>
</tr>
</tbody>
</table>

### Replacement Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Qty</th>
<th>ARG20</th>
<th>ARG30</th>
<th>ARG40</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Valve</td>
<td>Brass, NBR</td>
<td>1</td>
<td>AR20P-410S</td>
<td>AR30P-410S</td>
<td>AR40P-410S</td>
<td>GB2-10AS</td>
</tr>
<tr>
<td>5</td>
<td>Diaphragm assembly</td>
<td>Weatherability NBR</td>
<td>1</td>
<td>AR20P-150AS</td>
<td>AR30P-150AS</td>
<td>AR40P-150AS</td>
<td>GB3-10AS</td>
</tr>
<tr>
<td>6</td>
<td>Valve guide assembly</td>
<td>POM, NBR</td>
<td>1</td>
<td>AR20P-050AS</td>
<td>AR30P-050AS</td>
<td>AR40P-050AS</td>
<td>GB3-10AS</td>
</tr>
<tr>
<td>7</td>
<td>Pressure gauge cover</td>
<td>PC</td>
<td>1</td>
<td>AR20P-400S</td>
<td>AR30P-400S</td>
<td>AR40P-400S</td>
<td>GB4-10AS</td>
</tr>
<tr>
<td>8</td>
<td>Pressure gauge</td>
<td>—</td>
<td>1</td>
<td>GB2-10AS</td>
<td>GB3-10AS</td>
<td>GB4-10AS</td>
<td>GB2-10AS</td>
</tr>
<tr>
<td>9</td>
<td>Clip</td>
<td>Stainless steel</td>
<td>1</td>
<td>AR20P-420S</td>
<td>AR30P-420S</td>
<td>AR40P-420S</td>
<td>GB2-10AS</td>
</tr>
</tbody>
</table>

**Note:** Only the standard part numbers are listed in the pressure gauges. For the optional part numbers, refer to page 563.
### Dimensions

#### Regulator with Built-in Pressure Gauge  
**Series ARG20/30/40**

#### Panel fitting dimension

**Note)** Full length dimension B is measured when the handle is unlocked.

<table>
<thead>
<tr>
<th>Model</th>
<th>P</th>
<th>A</th>
<th>B (Port size)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARG20</td>
<td>1/8, 1/4</td>
<td>40</td>
<td>114, 26.5, 57, 45, 47, M39 x 1.5</td>
</tr>
<tr>
<td>ARG30</td>
<td>1/4, 3/8</td>
<td>53</td>
<td>138.5, 31, 59, 59, M50 x 1.5</td>
</tr>
<tr>
<td>ARG40</td>
<td>1/4, 3/8, 1/2</td>
<td>70</td>
<td>150.5, 36, 68, 70, M55 x 1.5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Standard specifications</th>
<th>Option specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Panel mount</strong></td>
<td><strong>Bracket mount</strong></td>
</tr>
<tr>
<td>H</td>
<td>J</td>
</tr>
<tr>
<td>38</td>
<td>52.5</td>
</tr>
<tr>
<td>50</td>
<td>65</td>
</tr>
<tr>
<td>54</td>
<td>70</td>
</tr>
</tbody>
</table>

**AC-A**  | **AF-A**  | **AF-C**  | **AR-A**  | **AL-A**  | **AW-A**  | **AC**  | **AF**  | **AR**  | **AL**  | **AW**  | **ACG**  | **E**  | **AV**  | **AF**  |

**Dimensions**

**Model**

- **ARG20**
- **ARG30**
- **ARG40**
Regulator with Built-in Pressure Gauge with Backflow Function

Series ARG20K/30K/40K

How to Order

ARG 20 K - 01 G1 -

Body size
Symbol Port size
20 1/8
30 3/8
40 1/2

With backflow function

Thread type
Symbol Type
Nil Rc
N NPT
F G

Port size
Symbol Port size Body size
01 1/8 20 30 40
02 1/4 — — —
03 3/8 — — —
04 1/2 — — —

Option (1)
Symbol Description
Nil —
B With bracket (With set nuts)

Option (2)
Symbol Description
Nil —
H With set nuts

Mounting Angle of Pressure Gauge

Symbol G1 G2 G3 G4
Mounting angle
0° 90° 180° 270°
Mounting angle view

Option/Semi-standard Combinations

Option/Semi-standard specifications Combination Symbol Option Semi-standard Applicable regulator
With bracket B - 1 N Z ARG20 to 40
With set nut H -
0.02 to 0.2 MPa setting -1 -
Non-relieving type -N -
Name plate and pressure gauge in imperial units (psi) -Z -

Semi-standard
Symbol Description
Nil —
1 [2] 0.02 to 0.2 MPa setting
N Non-relieving type
Z [2] Name plate and pressure gauge in imperial units (psi)

* When more than one specification is required, indicate in ascending alphanumeric order.

Note 2) Adjusting spring and pressure gauge (full-span 0.3 MPa) are different from those for the standard specification.
All products can be set at 0.2 MPa or more.

Note 3) For thread type NPT.
This product is for overseas use only according to the new Measurement Law. (The SI unit type is provided for use in Japan.)

Application examples of a regulator with a backflow function

With a built-in mechanism which enables reliable discharge of air pressure from outlet to inlet

Example 1)
When the pressure in the rear and the front of the cylinder differs:

Circuit diagram

Example 2)
When the air supply is cut off and releasing the inlet pressure to the atmosphere, the residual pressure release of the outlet side can be ensured for a safety purpose.

Circuit diagram
Regulator with Built-in Pressure Gauge with Backflow Function  
**Series ARG20K/30K/40K**

### Standard Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>ARG20K</th>
<th>ARG30K</th>
<th>ARG40K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port size</td>
<td>1/8, 1/4</td>
<td>1/4, 3/8</td>
<td>1/4, 3/8, 1/2</td>
</tr>
<tr>
<td>Fluid</td>
<td>Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proof pressure</td>
<td>1.5 MPa</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum operating pressure</td>
<td>1.0 MPa</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regulating pressure range&lt;sup&gt;(1)&lt;/sup&gt;</td>
<td>0.05 to 0.85 MPa</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relief pressure</td>
<td>Set pressure + 0.05 MPa (at relief flow rate of 0.1 L/min (ANR))</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambient and fluid temperature</td>
<td>-5° to 60°C (With no freezing)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>0.21</td>
<td>0.40</td>
<td>0.57</td>
</tr>
</tbody>
</table>

<sup>(1)</sup> Set the inlet pressure to 0.05 MPa or higher than the set pressure.

### Option Part No.

<table>
<thead>
<tr>
<th>Option</th>
<th>Applicable model</th>
<th>ARG20K</th>
<th>ARG30K</th>
<th>ARG40K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bracket assembly&lt;sup&gt;(1)&lt;/sup&gt;</td>
<td>ARG20P-270AS</td>
<td>ARG30P-270AS</td>
<td>ARG40P-270AS</td>
<td></td>
</tr>
<tr>
<td>Set nut</td>
<td>ARG20P-260S</td>
<td>ARG30P-260S</td>
<td>ARG40P-260S</td>
<td></td>
</tr>
<tr>
<td>Pressure gauge</td>
<td>Standard</td>
<td>0 to 1.0 MPa</td>
<td>GB2-10AS</td>
<td>GB3-10AS</td>
</tr>
<tr>
<td>Pressure gauge display range</td>
<td>Semi-standard</td>
<td>0 to 0.3 MPa</td>
<td>GB2-3AS</td>
<td>GB3-3AS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 to 150 psi</td>
<td>GB2-P10AS</td>
<td>GB3-P10AS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 to 45 psi</td>
<td>GB2-P3AS</td>
<td>GB3-P3AS</td>
</tr>
</tbody>
</table>

<sup>(1)</sup> Assembly includes a bracket and set nuts.

### Flow Characteristics (Representative Values)

Condition: Inlet pressure 0.7 MPa

ARG20K  
Rc1/4

ARG30K  
Rc3/8

ARG40K  
Rc1/2

### Pressure Characteristics (Representative Values)

Conditions: Inlet pressure 0.7 MPa, Outlet pressure 0.2 MPa, Flow rate 20 L/min (ANR)
**Working Principle**

When the inlet pressure (P1) is higher than the regulating pressure, the check valve closes and operates as a normal regulator (Figure 1).

When the inlet pressure (P1) is shut off and released, the check valve opens and the pressure in the diaphragm chamber is released into the inlet side (Figure 2). This lowers the pressure in the diaphragm chamber and the force generated by the pressure regulator spring lifts the diaphragm. Valve opens through the stem, and the outlet pressure is released to the inlet side (Figure 3).

**Specific Product Precautions**

Be sure to read before handling. Refer to front matter 43 for Safety Instructions and pages 365 to 369 for F.R.L. Precautions.

**Warning**

1. Set the regulator while verifying the displayed values of the inlet and outlet pressure gauges. Turning the regulator handle excessively can cause damage to the internal parts.

2. Do not use tools on the pressure regulator handle as this may cause damage. It must be operated manually.

**Caution**

1. Be sure to unlock the handle before adjusting the pressure and lock it after setting the pressure. Failure to follow this procedure can cause damage to the handle and the outlet pressure may fluctuate.

   - Pull the pressure regulator handle to unlock. (You can visually verify this with the “orange mark” that appears in the gap.)

   - Push the pressure regulator handle to lock. When the handle is not easily locked, turn it left and right a little and then push it (when the handle is locked, the “orange mark”, i.e., the gap will disappear).

**Maintenance**

1. When using the regulator between a solenoid valve and an actuator, check the pressure gauge periodically. Sudden pressure fluctuations may shorten the durability of the pressure gauge.
Regulator with Built-in Pressure Gauge with Backflow Function Series ARG20K/30K/40K

Construction

Component Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>ARG20K</th>
<th>ARG30K</th>
<th>ARG40K</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>ADC</td>
<td></td>
<td></td>
<td></td>
<td>Platinum silver</td>
</tr>
<tr>
<td>2</td>
<td>Bonnet</td>
<td>PBT</td>
<td></td>
<td></td>
<td></td>
<td>Black</td>
</tr>
<tr>
<td>3</td>
<td>Handle</td>
<td>POM</td>
<td></td>
<td></td>
<td></td>
<td>Black</td>
</tr>
</tbody>
</table>

Replacement Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Qty.</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Valve</td>
<td>Brass, HNBR</td>
<td>1</td>
<td>AR20P-410S AR30P-410S AR40P-410S</td>
</tr>
<tr>
<td>5</td>
<td>Diaphragm assembly</td>
<td>Weatherability NBR</td>
<td>1</td>
<td>AR20P-150AS AR30P-150AS AR40P-150AS</td>
</tr>
<tr>
<td>6</td>
<td>Valve guide assembly</td>
<td>POM, NBR</td>
<td>1</td>
<td>AR20P-050AS AR30P-050AS AR40P-050AS</td>
</tr>
<tr>
<td>7</td>
<td>Pressure gauge cover</td>
<td>PC</td>
<td>1</td>
<td>AR20G-400S AR30P-400S AR40G-400S</td>
</tr>
<tr>
<td>8</td>
<td>Pressure gauge</td>
<td></td>
<td>1</td>
<td>GB2-10AS  GB3-10AS  GB4-10AS</td>
</tr>
<tr>
<td>9</td>
<td>Clip</td>
<td>Stainless steel</td>
<td>1</td>
<td>AR20G-420S AR30P-420S AR40G-420S</td>
</tr>
<tr>
<td>10</td>
<td>Check valve assembly</td>
<td></td>
<td>1</td>
<td>AR20KP-020AS</td>
</tr>
</tbody>
</table>

Note 1) Only the standard part numbers are listed for the pressure gauges. For the optional part numbers, refer to page 567.
Note 2) Check valve assembly contains check valve, check valve cover and its screws (2 pcs).
### ARG20K/30K/40K Series

#### Construction

Panel fitting dimension

<table>
<thead>
<tr>
<th>Model</th>
<th>Standard specifications</th>
<th>Option specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>P</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARG20K</td>
<td>1/8, 1/4</td>
<td>40</td>
</tr>
<tr>
<td>ARG30K</td>
<td>1/4, 3/8</td>
<td>53</td>
</tr>
<tr>
<td>ARG40K</td>
<td>1/4, 3/8, 1/2</td>
<td>70</td>
</tr>
</tbody>
</table>

Note) Full length dimension B is measured when the handle is unlocked.
Regulator with Built-in Pressure Gauge

ARG20/30/40

Made to Order Specifications:
Contact SMC for detailed dimensions, specifications, and lead times.

1. Setting and Pressure Gauge Full Span 0.4 MPa

ARG 20 – 01 G1 – X406

- Semi-standard
- Option (1)
- Option (2)
- With back flow mechanism

- Mounting Angle of Pressure Gauge

- Option/Semi-standard Combinations

---

*When more than one specification is required, indicate in ascending alphanumeric order.

*When more than one specification is required, indicate in ascending alphanumeric order.

Note 2) For thread type NPT.
This product is for overseas use only according to the new Measurement Law. (The SI unit type is provided for use in Japan.)

Warning: Mounting angles other than 45°, 135°, 225° and 315° are available through the Made to Order (page 572).
Possible to change to the optional mounting angles.
For details, refer to page 584, “Procedure for replacing or changing the mounting angle of a pressure gauge.”

---

Option/Semi-standard Combinations

<table>
<thead>
<tr>
<th>Option/Semi-standard specifications</th>
<th>Combination</th>
<th>Symbol</th>
<th>Option</th>
<th>Applicable regulator</th>
</tr>
</thead>
<tbody>
<tr>
<td>With bracket</td>
<td>B</td>
<td>H</td>
<td>N</td>
<td>ARG20(K) to 40(K)</td>
</tr>
<tr>
<td>With set nut</td>
<td>H</td>
<td>N</td>
<td>Z</td>
<td></td>
</tr>
<tr>
<td>Non-relieving type</td>
<td>-N</td>
<td></td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Name plate and pressure gauge in imperial units (psi)</td>
<td>-Z</td>
<td></td>
<td>Z</td>
<td></td>
</tr>
</tbody>
</table>
Regulator with Built-in Pressure Gauge
ARG20/30/40
Made to Order Specifications:
Contact SMC for detailed dimensions, specifications, and lead times.

2 Special Mounting Angle Specification of Pressure Gauge (45°, 135°, 225°, 315°)

<table>
<thead>
<tr>
<th>ARG</th>
<th>20</th>
<th>-</th>
<th>01</th>
<th>G5</th>
<th>-</th>
<th>X2101 A</th>
</tr>
</thead>
</table>

- **Body size**
  - Symbol: Port size
  - 20: 1/8
  - 30: 3/8
  - 40: 1/2

- **With back flow mechanism**
  - Symbol: Description
  - Nil: —
  - K: With back flow mechanism

- **Thread type**
  - Symbol: Type
  - Nil: Rc
  - N: NPT
  - F: G

- **Port size**
  - Symbol: Port size
  - Body size: Symbol
  - 20: 1/8
  - 30: 1/4
  - 40: 1/2

- **Mounting angle of pressure gauge**
  - Symbol: Description
  - A: 45°
  - B: 135°
  - C: 225°
  - D: 315°

- **Semi-standard**
  - Symbol: Description
  - Nil: —
  - 1: 0.02 to 0.2 MPa setting
  - N: Non-relieving type
  - Z: Name plate and pressure gauge in imperial units (psi)

- **Option/Semi-standard Combinations**
  - Option/Semi-standard specifications: Combination
  - Option: Semi-standard: Applicable regulator
  - With bracket: B
  - With set nut: H
  - 0.02 to 0.2 MPa setting: -1
  - Non-relieving type: -N
  - Name plate and pressure gauge in imperial units (psi): -Z

---

Note 1) Adjusting spring and pressure gauge (full-span 0.3 MPa) are different from those for the standard specification. All products can be set at 0.2 MPa or more.
Note 2) For thread type NPT. This product is for overseas use only according to the new Measurement Law. (The SI unit type is provided for use in Japan.)

Refer to the table below.

---

Regulator with Built-in Pressure Gauge
ARG20/30/40
Made to Order Specifications:
Contact SMC for detailed dimensions, specifications, and lead times.

2 Special Mounting Angle Specification of Pressure Gauge (45°, 135°, 225°, 315°)

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<th>-</th>
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</tr>
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  - 40: 1/2

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  - Symbol: Description
  - Nil: —
  - K: With back flow mechanism

- **Thread type**
  - Symbol: Type
  - Nil: Rc
  - N: NPT
  - F: G

- **Port size**
  - Symbol: Port size
  - Body size: Symbol
  - 20: 1/8
  - 30: 1/4
  - 40: 1/2

- **Mounting angle of pressure gauge**
  - Symbol: Description
  - A: 45°
  - B: 135°
  - C: 225°
  - D: 315°

- **Semi-standard**
  - Symbol: Description
  - Nil: —
  - 1: 0.02 to 0.2 MPa setting
  - N: Non-relieving type
  - Z: Name plate and pressure gauge in imperial units (psi)

- **Option/Semi-standard Combinations**
  - Option/Semi-standard specifications: Combination
  - Option: Semi-standard: Applicable regulator
  - With bracket: B
  - With set nut: H
  - 0.02 to 0.2 MPa setting: -1
  - Non-relieving type: -N
  - Name plate and pressure gauge in imperial units (psi): -Z

---

Note 1) Adjusting spring and pressure gauge (full-span 0.3 MPa) are different from those for the standard specification. All products can be set at 0.2 MPa or more.
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ARG20/30/40
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  - A: 45°
  - B: 135°
  - C: 225°
  - D: 315°

- **Semi-standard**
  - Symbol: Description
  - Nil: —
  - 1: 0.02 to 0.2 MPa setting
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  - Z: Name plate and pressure gauge in imperial units (psi)

- **Option/Semi-standard Combinations**
  - Option/Semi-standard specifications: Combination
  - Option: Semi-standard: Applicable regulator
  - With bracket: B
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  - 0.02 to 0.2 MPa setting: -1
  - Non-relieving type: -N
  - Name plate and pressure gauge in imperial units (psi): -Z

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Note 1) Adjusting spring and pressure gauge (full-span 0.3 MPa) are different from those for the standard specification. All products can be set at 0.2 MPa or more.
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