ASCO CO₂ Flowmeter

The ASCO CO₂ Flowmeter has been developed to accurately measure CO₂ gas flow in closed pipes.

The power unit, which supplies 230 V, operates a microprocessor controlled flow computer and one sensor.

The ASCO CO₂ Flowmeter is a complete system which is supplied fully calibrated and wired and therefore very easy to install.

Features
- easy to install
- very accurate (0.1 %)
- single point measurement
- no pressure and temperature compensation required
- no moving parts
- direct mass flow reading
- tension free contact alarm and fault status output
- self-testing electronics

Accurate CO₂ measurement can help to find CO₂ leaks and to achieve optimum CO₂ yields. Practical tests have shown that by using an ASCO CO₂ Flowmeter, CO₂ savings of up to 30 % can be achieved.

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Type MF15 part no. 4062504</th>
<th>Type MF25 part no. 4062505</th>
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</thead>
<tbody>
<tr>
<td>Measuring range:</td>
<td>1'000 kg/h (2'205 lb/h) at 22 bar (319.08 psi)</td>
<td>2'700 kg/h (5'952 lb/h) at 22 bar (319.08 psi)</td>
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<tr>
<td>Nominal pipe diameter:</td>
<td>15 mm (0.59 in)</td>
<td>25 mm (1 in)</td>
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<tr>
<td>Connections (flanges DIN 2635, PN 40):</td>
<td>DN 15 (1/2&quot;)</td>
<td>DN 25 (1&quot;)</td>
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<tr>
<td>Max. working pressure:</td>
<td>40 bar (580 psi) (tested to 60 bar) (870 psi)</td>
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</tr>
<tr>
<td>Medium temperature:</td>
<td>-50 to +180 °C</td>
<td>-50 to +180 °C</td>
</tr>
<tr>
<td>Permissible ambient temperature:</td>
<td>-20 to +55 °C</td>
<td>-20 to +55 °C</td>
</tr>
<tr>
<td>Accuracy:</td>
<td>0.1 % of rate (above 10 kg/h) (22 lb/h)</td>
<td>0.1 % of rate (above 10 kg/h) (22 lb/h)</td>
</tr>
<tr>
<td>Repeatability:</td>
<td>± 0.5 % of rate</td>
<td>± 0.5 % of rate</td>
</tr>
<tr>
<td>Materials of construction:</td>
<td>AISI 316L/1.4435/1.4404</td>
<td>AISI 316L/1.4435/1.4404</td>
</tr>
<tr>
<td>Weight approx:</td>
<td>- sensor 6 kg (13 lb)</td>
<td>- controller 10 kg (22 lb)</td>
</tr>
<tr>
<td></td>
<td>5 kg (11 lb)</td>
<td>5 kg (11 lb)</td>
</tr>
</tbody>
</table>
**ASCO CO₂-Flowmeter MF25: Standard scope of supply**

**ASCO CO₂ Flowmeter MF25**
Mass flow sensor Type MF25 (fully calibrated) assembled to process pipe DN 25, PN 40 with flange connection DIN 2635. 
Measuring range 0 - 2'700 kg/h (0 - 5'952 lb/h) at 22 bar (319.08 psi) 
The flow computer (on wall bracket) is equipped with digital display of current CO₂ flow rate in kg/h as well as totalizer and integrated keyboard. 
10 meter connection cable with plug is prewired and connected. 
Voltage 115 - 230 V, 50/60 Hz

Accessories included:
- 2 pcs counterflange DN 25/PN40 welding (item no. 910301)
- 8 pcs screw M12x45, hex., inox (item no. 100020)
- 8 pcs Nut M12, inox (item no. 100022)
- 2 pcs gasket DN25, 2 x 71 x 35 mm (0.08 x 2.80 x 1.38 in) (item no. 110151)

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**ASCO CO₂-Flowmeter MF15: Standard scope of supply**

**ASCO CO₂ Flowmeter MF15**
Mass flow sensor Type MF15 (fully calibrated) assembled to process pipe DN 15, PN 40 with flange connection DIN 2635. 
Measuring range 0 - 1'000 kg/h (0 - 2205 lb/h) at 22 bar (319.08 psi) 
The flow computer (on wall bracket) is equipped with digital display of current CO₂ flow rate in kg/h as well as totalizer and integrated keyboard. 
10 meter connection cable with plug is prewired and connected. 
Voltage 115 - 230 V, 50/60 Hz

Accessories included:
- 2 pcs counterflange DN 15/PN40 welding (item no. 910101)
- 8 pcs screw M12x45, hex., inox (item no. 100020)
- 8 pcs Nut M12, inox (item no. 100022)
- 2 pcs gasket DN15, 2 x 51 x 22 mm (item no. 110150)