The ideal and reliable high-flow CO₂ pressure reducing valve for use with CO₂ gas or liquefied.

Advantages of a CO₂ pressure reducing valve:

- Constructed in brass (C31) and meehanite (C2-K32) with stainless steel trim
- Abrasion and dirt resistant rubber valve seats
- Dome loading either from inlet line or separate gas supply
- Stable and noiseless operation
- Positive gas-tight shut-off
- High-flow contoured passages

Specifications

<table>
<thead>
<tr>
<th></th>
<th>Type C31 part no. 914250</th>
<th>Type C2-K32 part no. 914006</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO₂ gas output per hour calculated at inlet pressure at 18 bar (261.07 psi)</td>
<td>621 kg/h (1'369 lb/h)</td>
<td>3'142 kg/h (6'927 lb/h)</td>
</tr>
<tr>
<td></td>
<td>621 kg/h (1'369 lb/h)</td>
<td>3'142 kg/h (6'927 lb/h)</td>
</tr>
<tr>
<td></td>
<td>615 kg/h (1'356 lb/h)</td>
<td>3'114 kg/h (6'865 lb/h)</td>
</tr>
<tr>
<td>Connection</td>
<td>R 1&quot;</td>
<td>R 2&quot;</td>
</tr>
<tr>
<td>Weight approx.</td>
<td>6 kg (13.23 lb)</td>
<td>19 kg (41.89 lb)</td>
</tr>
<tr>
<td>Maximum inlet pressure</td>
<td>100 bar (1450.38 psi)</td>
<td>63 bar (913.74 lb)</td>
</tr>
</tbody>
</table>
ASCO CO₂ Pressure Reducing Valve: Dimensions

<table>
<thead>
<tr>
<th>Type</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C31</td>
<td>914250</td>
<td>for gaseous and liquid CO₂ incl. repair kit (diaphragm and O-ring)</td>
</tr>
<tr>
<td>C2-K32</td>
<td>914006</td>
<td>for gaseous and liquid CO₂ incl. repair kit (diaphragm and O-ring)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>170 mm (6.69 in)</td>
</tr>
<tr>
<td>B</td>
<td>126 mm dia. (4.96 in)</td>
</tr>
<tr>
<td>C</td>
<td>52 mm (2 in)</td>
</tr>
<tr>
<td>D</td>
<td>127 mm (4.99 in)</td>
</tr>
</tbody>
</table>

ASCO CO₂ Pressure Reducing Valve C31: Standard scope of supply

ASCO CO₂ Pressure Reducing Valve C31 (Dome Loaded)

for gaseous and liquid CO₂ incl. repair kit (diaphragm and O-ring)  
part no. 4046817

ASCO CO₂ Pressure Reducing Valve C2-K32: Standard scope of supply

ASCO CO₂ Pressure Reducing Valve C2-K32 (Dome Loaded)

for gaseous and liquid CO₂ incl. repair kit (diaphragm and O-ring)  
part no. 4046644
ASCO CO₂ Gas Detectors are used to protect personnel wherever CO₂ gas or dry ice is used in closed areas, for example during dry ice blasting or when producing dry ice. CO₂ being heavier than air effectively will create high CO₂ concentrations, especially in small rooms or basements where no fresh air is supplied.

ASCO CO₂ Gas Detectors ensure continuous and automatic CO₂ content measuring in the ambient air using infra-red absorption measuring (NDIR). This technology employed the detector is very trouble-resistant to temperature variations or air draughts and therefore measures very accurately. The CO₂ gas detectors are very simple to install and no maintenance is needed due to the reliable measuring technology. It is a complete electronic system and, therefore, has no mechanical parts inside. All components are built into a splash proof box. The sensor is connected to the detector by a 5 m (196.85 in) standard cable, which can be shortened or extended as required.

### Specifications Detector

- **Dimensions/weight:** 160 × 65 × 130 mm (6.29 x 2.56 x 5.11 in) / approx. 600 g (1.32 lb)
- **Material box:** ABS plastic (IP54)
- **Resolution:** 0.1 vol% CO₂
- **Voltage:** 100-240 VAC (PNE) (power supply unit with wide voltage input)
  - 50-60 Hz
- **Max power consumption:** approx. 5 W
- **Relay preliminary alarm/alarm:** 250 VAC (ohmic load), 10 A
- **Analog output signal:** 4-20 mA, burden 200-800 Ω

### Specifications Sensor

- **Size/weight:** 85 × 65 × 90 mm (3.35 x 2.56 x 3.54 in) / approx. 500 g (1.1 lb)
- **Material box:** aluminium (IP43)
- **Gas entry:** diffusion
- **Measuring method:** nondispersive infrared measurement (NDIR)
- **Measuring range:** 0 - 5 vol% CO₂
- **Accuracy:** 0.1 vol% CO₂
- **Operating temperature:** -10 to +50 °C

### ASCO CO₂ Gas Detector: Standard scope of supply

**ASCO CO₂ Gas Detector IV SP/MA**

- Potential free relay contact provided for additional external warning lights, fan etc.
- 4 - 20mA output, e.g. for an output signal for a remote indicator

**part no. 4046230**

**ASCO CO₂ Gas Sensor for Detector Type IV SP/MA**

- Incl. 5 m (196.85in) sensor cable for the connection between detector and sensor

**part no. 406231**