Technical data:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. operating pressure</td>
<td>80bar</td>
</tr>
<tr>
<td>Rated voltage solenoid</td>
<td>24VDC</td>
</tr>
<tr>
<td>Nominal width of valve</td>
<td>NW = 4mm</td>
</tr>
<tr>
<td>Rated current solenoid</td>
<td>0.29 ADC</td>
</tr>
<tr>
<td>Nominal width of piercing needle</td>
<td>NW = 2mm</td>
</tr>
<tr>
<td>Duty cycle solenoid</td>
<td>100%</td>
</tr>
<tr>
<td>For use in temperature range</td>
<td>-25°C to +50°C</td>
</tr>
<tr>
<td>Min. release pressure HPA/HEPA</td>
<td>5bar</td>
</tr>
<tr>
<td>VdS recognition number</td>
<td>G507003 (only in orange version, no recognition for version HPA-HZ and HEPA-HZ)</td>
</tr>
<tr>
<td>VdS recognition for AK11.9</td>
<td>In progress</td>
</tr>
</tbody>
</table>

Ordering designation:

AK 11. x - yy - ... - R

Bracket for spare bottles

HA-HZ = manual OPEN - manual CLOSE
HEA-HZ = manual electric OPEN - manual CLOSE
HPA-HZ = manual pneumatic OPEN - manual CLOSE
HEPA-HZ = manual electric pneumatic OPEN - manual CLOSE

Colour (RT=red, OR=orange)

Box height

Number CO2 bottles CLOSE

Number CO2 bottles OPEN

Alarm box

Connection diagram solenoid:

Possible to close from outside (lockable)

Clamping angle

Cable gland

Connection only with option HPA-HZ/HEPA-HZ

Free field for inscription (e.g. Service sticker)

Possibility for sealing

Grace

AK 11.3 350mm 300mm 130mm 150g
AK 11.5 500mm 300mm 130mm 500g
AK 11.7 650mm 300mm 130mm 750g
AK 11.9 700mm 320mm 170mm 1500g

Type | A   | B   | C   | Max. CO2-bottle size |
<table>
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<tr>
<th></th>
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<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td></td>
<td></td>
</tr>
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<td>AK11.3 350mm 300mm 130mm</td>
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Connection diagram solenoid:

Possible to close from outside (lockable)

Clamping angle

Cable gland

Connection only with option HPA-HZ/HEPA-HZ

Free field for inscription (e.g. Service sticker)

Possibility for sealing

Possibility to close from outside (lockable)

Connection diagram solenoid:

Possible to close from outside (lockable)

Clamping angle

Cable gland

Connection only with option HPA-HZ/HEPA-HZ

Free field for inscription (e.g. Service sticker)

Possibility for sealing

Possibility to close from outside (lockable)
Assembly of the box:
1) Join the respective connections.
2) When using CO2 one-way bottles, mount the valve as per drawing (bottle screwed in from the top, i.e. liquid gas discharge).
3) We recommend using CO2 bottles according to Drawing No.: 03.023.01.x and point out that the VdS recognition is only valid with these bottles.

Connections:
CA ... cylinder OPEN
CZ ... cylinder CLOSE
PA ... Pneumatic triggering (only with Option HPA / HEPA)

Description of operation:
The triggering command results in that the gas contained in the CO2 bottle is released.
Types of triggering:
1) Manual triggering by pressing the black button
2) Electric triggering by applying the rated voltage to the solenoid (only with Option HEA / HEPA)
3) Pneumatic triggering by applying the triggering pressure to the connection PA (only with Option HPA / HEPA)

Triggering:
1) Manual triggering: deeply press black button
2) Electric triggering via the solenoid
3) Pneumatic triggering via pneumatic attachment part

Commissioning:
1) Remove clamping angle from the bracket in the box.
2) Hook clamping angle into the recess provided (see Picture A).
3) Place clamping bolt onto the piercing bolt in the valve.
4) Press clamping angle down fully until the piercing bolt engages.
5) Check if the piercing needle is located behind the piercing surface of the bottle screw-in thread!
6) Lightly grease O-ring in the bottle screw-in thread.
7) Check position of the view indicator. View indicator must be on green, if not, press view indicator angle to the valve until view indicator is green! (see Picture B).
8) Screw in new CO2 bottle, replace glass pane and close the box.
9) Following triggering, remove empty CO2 bottle (Caution: Residual pressure may be present) and repeat the process.

Commissioning of the closed trigger:
1) Carry out Points 1-6 of the commissioning of the OPEN trigger accordingly.
2) Check position of the priority slide. Both slides must be in the basic position! (see Picture C)
3) Screw in new CO2 bottle and close box.
4) Following a triggering, remove empty CO2 bottle. (Caution: Residual pressure may be present) and repeat operation.