**Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Max. pump flow</th>
<th>Tipping time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. working pressure</td>
<td>250 bar</td>
<td>With KO¹</td>
</tr>
<tr>
<td>Weight</td>
<td>136 kg</td>
<td>Without KO¹</td>
</tr>
<tr>
<td>Working volume</td>
<td>36 L</td>
<td>With KO¹ below -20°C</td>
</tr>
<tr>
<td>Total volume</td>
<td>39 L</td>
<td>Without KO¹ below -20°C</td>
</tr>
<tr>
<td>Max. cyl. load (start tipping)</td>
<td>195 kN</td>
<td>With KO¹ below -20°C</td>
</tr>
</tbody>
</table>

**Max. pump flow**

- With KO¹: 122 L/min
- Without KO¹: 86 L/min

**Tipping time**

- With KO¹: 18 sec
- Without KO¹: 25 sec

**Technical notes**

- This cylinder is a lifting device only. It should not be used as a structural member and should not be subjected to side loads.
- Tipping valve must have a pressure relief at the cylinder port set not higher than max. working pressure.
- Verify max. cyl. load.
- Working temperature range is between -40°C and +80°C.
- Max. duration of extension is 0.5 hours (excluded hard chromed stages).
- Cylinder is painted black (RAL9005) with a min. thickness conforming to the 480 hours neutral salt spray test as per ISO 9227.
- Tipping valve must have a pressure relief at the cylinder port set not higher than max. working pressure.

**Related documentation**

- Bracket options: 015BRA10 & 015BRA13
- Mounting instructions: CYL-0031
- Oil specifications: OIL-0011
- Spec sheet explanation: CYL-0041

**Tipping weight**

- BL: body length
- OH: rear overhang
- Ycog: vert. pos. centre of gravity
- Qo: pivot length
- C: bracket length
- At: tipping angle

For detailed tipping calculations please refer to: https://tipper.hyva.com
# Alpha series - Front end cylinder with single eye

**FE A129-4-04320-001-K1365**

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Part no.</th>
<th>Description</th>
<th>Qty.</th>
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</thead>
<tbody>
<tr>
<td>C01</td>
<td>71839111</td>
<td>DUST COVER FE 129-4/137-4</td>
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<tr>
<td>P01</td>
<td>74401301</td>
<td>PISTON FL2 S 072-1280-HC</td>
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<tr>
<td>P02</td>
<td>71853072</td>
<td>SLIDER FL 072 (2 X 1/2) A22</td>
<td>2</td>
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<tr>
<td>P04</td>
<td>7182072</td>
<td>BOTTOM PLATE PISTON FL 072</td>
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<tr>
<td>P05</td>
<td>01745026</td>
<td>CIRCLIP 63 DIN 472 (67.2x2.0)</td>
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<tr>
<td>P06</td>
<td>71870210</td>
<td>O-RING PISTON BOTTOM 072</td>
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<td>P07</td>
<td>71847100</td>
<td>PISTON EYE SPH. FL 072 MK2 L=075</td>
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<td>P08</td>
<td>01226420</td>
<td>O-RING 53.57 X 3.53 MM</td>
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<td>P09</td>
<td>71875450</td>
<td>SPHERICAL BEARING D.50 MAINT. FREE</td>
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<td>PIN ROUND HEAD GROOVED 8x15 mm</td>
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<td>S31</td>
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<td>STAGE FL2 091-1275</td>
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<td>PACKSET FL 091</td>
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<td>S33</td>
<td>71853091</td>
<td>SLIDER FL 091 (2 X 1/2) A22</td>
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<td>S34</td>
<td>71851091</td>
<td>OUTER STOPRING FL 091 A22</td>
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<td>S35</td>
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<td>S14</td>
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<td>B05</td>
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<td>B07</td>
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<td>WASHER SPRING M8 SET 6 PCS</td>
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**Seal kit complete**

71908440 K  Consists of all packsets with packset grease and O-rings

**Notes**

The inner stopring is pre-mounted in the grooves on spare bases and stages. Therefore, when ordering new tubes, it is not required to order inner stoprings separately.

For repair instructions see: CYL-0040. Serial no. is located on type plate and near type plate support.