**Alpha series - Front end cylinder with single eye**

**FE A169-5-07130-019-K1774*290**

**Tipping weight**
- 26 - 37 ton

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**Specifications**
- **Max. working pressure**: 150 bar
- **Weight**: 266 kg
- **Working volume**: 98 L
- **Total volume**: 106 L
- **Max. cyl. load (start tipping)**: 245 kN
- **Max. cyl. load (end of stroke)**: 72 kN

**Max. pump flow**
- **With KO¹**: 190 L/min
- **Without KO**: 137 L/min

**Tipping time**
- **With KO¹**: 31 sec
- **Without KO**: 43 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.
- Cylinder is painted black (RAL9005) with a min. thickness conforming to the 480 hours neutral salt spray test as per ISO 9227.
- ¹ Hyva knock-off.
- ² Unsubstantial unloading (sticky load).
- ³ Substantial unloading.

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**Related documentation**
- **Bracket options**: 015BRA10 & 015BRA13
- **Mounting instructions**: CYL-0031
- **Oil specifications**: OIL-0011

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**Tipping weight**

**BL [mm]**
- body length

**OH [mm]**
- rear overhang

**Ycog [mm]**
- vert. pos. centre of gravity

**Qo [mm]**
- pivot length

**C [mm]**
- bracket length

**At [°]**
- tipping angle

<table>
<thead>
<tr>
<th>BL [mm]</th>
<th>9000</th>
<th>9200</th>
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<tbody>
<tr>
<td>200</td>
<td>46</td>
<td>47</td>
</tr>
<tr>
<td>500</td>
<td>49</td>
<td>47</td>
</tr>
<tr>
<td>800</td>
<td>48</td>
<td>50</td>
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</table>

<table>
<thead>
<tr>
<th>Ycog [mm]</th>
<th>9000</th>
<th>9200</th>
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<tbody>
<tr>
<td>600</td>
<td>28</td>
<td>30</td>
</tr>
<tr>
<td>900</td>
<td>28</td>
<td>30</td>
</tr>
<tr>
<td>1200</td>
<td>29</td>
<td>30</td>
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For detailed tipping calculations please refer to: [https://tipper.hyva.com](https://tipper.hyva.com)

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## Alpha series - Front end cylinder with single eye

### FE A169-5-07130-019-K1774*290

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Part no.</th>
<th>Description</th>
<th>Qty.</th>
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<tbody>
<tr>
<td>C01</td>
<td>71839131</td>
<td>DUST COVER FE 169-5/179-5/191-6</td>
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<td>P01</td>
<td>74402681</td>
<td>PISTON FL2 S 091-1690-HC</td>
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<td>P02</td>
<td>71853091</td>
<td>K SLIDER FL 091 (2 X 1/2) A22</td>
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<td>P03</td>
<td>71851091</td>
<td>K OUTER STOPRING FL 091 A22</td>
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<td>P04</td>
<td>71822091</td>
<td>BOTTOM PLATE PISTON FL 091</td>
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<tr>
<td>P05</td>
<td>01745012</td>
<td>K CIRCLIP 82 DIN 472 (87.5x2.5)</td>
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<td>P06</td>
<td>71870215</td>
<td>K O-RING PISTON BOTTOM 091</td>
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<td>P07</td>
<td>71847200</td>
<td>PISTON EYE SPH. FL 091 MK2 L=075</td>
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<td>P08</td>
<td>01226430</td>
<td>K O-RING 72.62 X 3.53 MM</td>
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<td>P09</td>
<td>71875450</td>
<td>K SPHERICAL BEARING D.50 MAINT. FREE</td>
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<td>P10</td>
<td>01770560</td>
<td>K CIRCLIP 75 DIN 472 (79.5x3.0)</td>
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<td>P11</td>
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<td>PIN ROUND HEAD GROOVED 8x15 mm</td>
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</table>

### Seal kit complete

**Consists of all packsets with packset grease and O-rings**

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### 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.

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

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