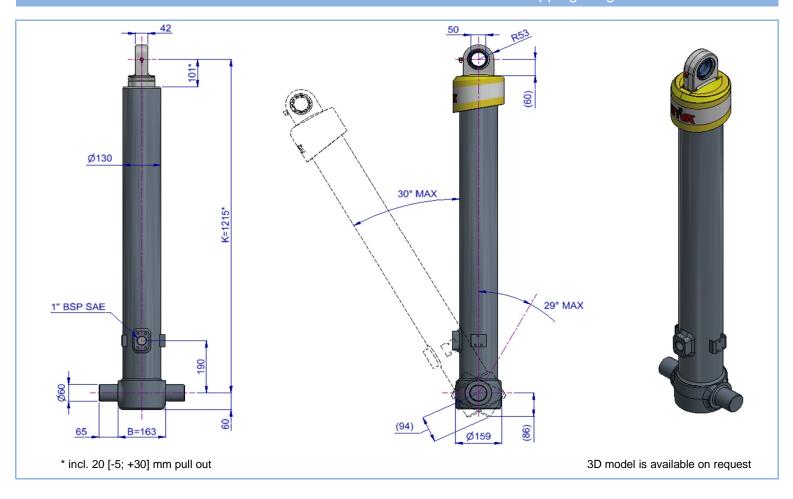
Alpha series - Front end cylinder with single eye



FE A110-2-01790-001-K1215-HD

Item no.
Tipping weight

70533050 48 - 63 tor



| Specifications | | Max. pump flow | | | Tippii | ng tim | ne | | | | |
|--------------------------------|---------|-----------------------------------|-----------|-------------------------|---------|----------------|-----------|-------|-----|---|-------|
| Max. working pressure | 250 bar | With KO ¹ | 195 L/min | | With K | O ¹ | | | | 4 | sec |
| Weight 79 kg | | Without KO ¹ 137 L/min | | Without KO ¹ | | | | 6 | sec | | |
| Working volume | 14 L | With KO¹ below -20°C 137 L/min | | With KO1 below -20°C | | | | 6 sec | | | |
| Total volume 16 L | | Without KO1 below -20°C | 96 L/min | Without KO1 below -20°C | | | | 9 sec | | | |
| Max. cyl. load (start tipping) | 235 kN | | | | Allowal | ole lowe | ering tir | me | | 3 | sec |
| | | Extension | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Total |
| | | Effective diameter [mm] | | 110 | 91 | | | | | | |
| | | Stroke* [mm] | | 885 | 905 | | | | | | 1790 |

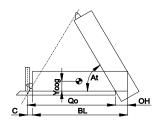
Technical notes

• 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. • ¹ Hyva knock-off.

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

stroke x 60 / Qo

| BL [mm] | | 2400 | | | 2350 | | | 2300 | |
|-----------|-----|------|-----|-----|------|-----|-----|------|-----|
| OH [mm] | 200 | 300 | 400 | 200 | 300 | 400 | 200 | 300 | 400 |
| At [°] | 46 | 49 | 51 | 47 | 50 | 53 | 49 | 51 | 54 |
| | | | | | | | | | |
| Ycog [mm] | | | | | | | | | |
| 400 | 48 | 53 | 60 | 49 | 54 | 62 | 50 | 55 | 63 |
| 700 | 56 | | | | | | | | |
| 1000 | | | | | | | | | |

Tipping weight [ton] at maximum pressure of 250 bar for a vertically mounted cylinder and C is 158 mm

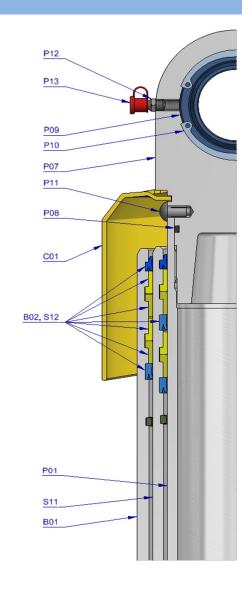
Alpha series - Front end cylinder with single eye

FE A110-2-01790-001-K1215-HD

Item no

70533050

| Pos. | Part no. | Description | Qty. |
|------|------------|-------------------------------------|------|
| | | • | |
| C01 | 71839110 | DUST COVER FE 129-3/137-3 | 1 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| P01 | 74412201 | PISTON FL2 S 091-1130-HD-HC | 1 |
| P02 | 71807093 K | SLIDER FL 091 (2 X 1/2) A35 | 1 |
| P03 | 71851091 K | OUTER STOPRING FL 091 A22 | 2 |
| P04 | 71822705 | BOTTOM PLATE PISTON FL 091 MK2 HD | 1 |
| P05 | 01745020 K | CIRCLIP 78 DIN 472 (82.5x2.5) | 1 |
| P06 | 71870215 K | O-RING PISTON BOTTOM 091 | 1 |
| P07 | 71847201 | PISTON EYE SPH. FL 091 MK2 L=075 GR | 1 |
| P08 | 01226430 K | O-RING 72.62 X 3.53 MM | 1 |
| P09 | 01770085 K | SPHERICAL BEARING D.50 DO GREASED | 1 |
| P10 | 01770560 K | CIRCLIP 75 DIN 472 (79.5x3.0) | 1 |
| P11 | 71875012 | PIN ROUND HEAD GROOVED 8x15 mm | 2 |
| P12 | 56288044 K | GREASE NIPPLE M8x1 DIN 71412 | 1 |
| P13 | 01317670 K | GREASER PROTECTION CAP | 1 |



| | S11 | 74613200 | STAGE FL2 110-1125-HD | 1 |
|---|-----|------------|-----------------------------------|---|
| | S12 | 71808110 K | PACKSET FL 110/HP 110 TANDEM SEAL | 1 |
| | S13 | 71807112 K | SLIDER FL 110 (2 X 1/2) A35 | 1 |
| | S14 | 71851110 K | OUTER STOPRING FL 110 A22 | 1 |
| | S15 | 71852110 K | LIFTRING FL 110 A22 | 1 |
| _ | | | | |
| | B01 | 74514200 | BASE FL2 129-1164-4/4BSAE-190-HD | 1 |
| | B02 | 71802129 K | PACKSET FL 129/HP 129 | 1 |
| | B03 | 71825415 | BOTTOM PLATE FL2 129 | 1 |
| | B04 | 71870025 K | O-RING BOTTOM PLATE FL 129 | 1 |
| | B05 | 71820129 | LOCKING PLATE FL 129 | 3 |
| | B06 | 01732055 K | BOLT HEX M8X20X1.25 SET 3 PCS | 1 |
| | B07 | 01732559 K | WASHER SPRING M8 SET 3 PCS | 1 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| P04 | |
|------------|-------------|
| S14, P03 | |
| P06 | |
| P05 | |
| S13, P02 | |
| P03 | |
| <u>S15</u> | |
| B04 | |
| B03 | |
| <u>B05</u> | B06 B07 321 |

Seal kit complete

| ocal Kit t | Joinpiete | | |
|------------|-----------|---|--|
| 71 | 1908321 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.