

Specifications

| | |
|--------------------------------|---------|
| Max. working pressure | 250 bar |
| Weight | 91 kg |
| Working volume | 19 L |
| Total volume | 21 L |
| Max. cyl. load (start tipping) | 195 kN |

Max. pump flow

| | |
|-------------------------------------|-----------|
| With KO ¹ | 122 L/min |
| Without KO ¹ | 86 L/min |
| With KO ¹ below -20°C | 85 L/min |
| Without KO ¹ below -20°C | 60 L/min |

Tipping time

| | |
|-------------------------------------|--------|
| With KO ¹ | 9 sec |
| Without KO ¹ | 13 sec |
| With KO ¹ below -20°C | 13 sec |
| Without KO ¹ below -20°C | 19 sec |
| Allowable lowering time | 9 sec |

| Extension | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Total |
|-------------------------|-----|-----|-----|---|---|---|---|-------|
| Effective diameter [mm] | 110 | 91 | 72 | | | | | 2785 |
| Stroke* [mm] | 915 | 935 | 935 | | | | | |

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.

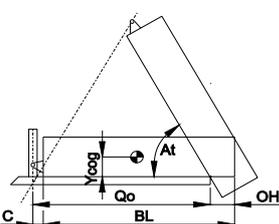
Related documentation

Bracket options: 015BRA10 & 015BRA13

Mounting instructions: CYL-0031

Oil specifications: OIL-0011
Spec sheet explanation: CYL-0041

Tipping weight



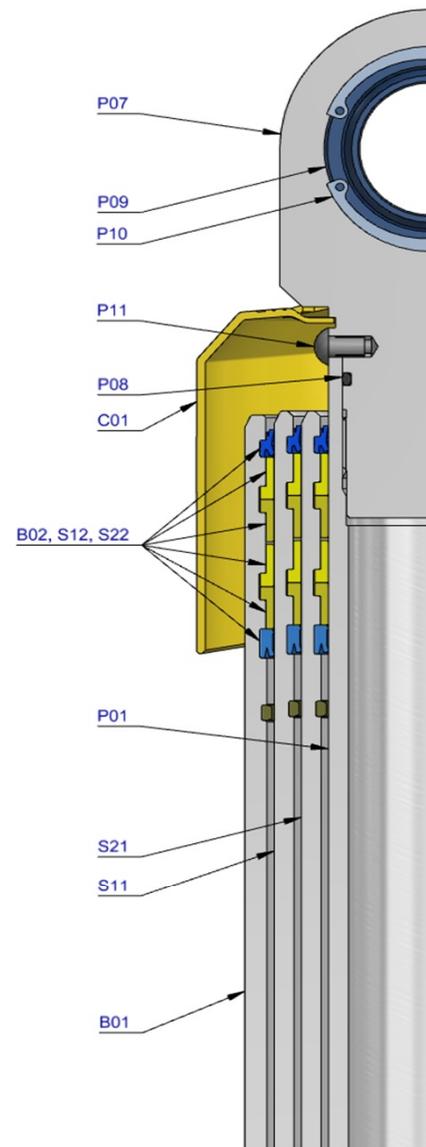
| | |
|------|------------------------------|
| BL | body length |
| OH | rear overhang |
| Ycog | vert. pos. centre of gravity |
| Qo | pivot length |
| C | bracket length |
| At | tipping angle |
| | stroke x 60 / Qo |

| | 3700 | | | 3650 | | | 3600 | | |
|-----------|------|-----|-----|------|-----|-----|------|-----|-----|
| BL [mm] | 200 | 400 | 600 | 200 | 400 | 600 | 200 | 400 | 600 |
| OH [mm] | 46 | 49 | 52 | 47 | 50 | 53 | 47 | 51 | 54 |
| At [°] | | | | | | | | | |
| Ycog [mm] | | | | | | | | | |
| C | 29 | 32 | 38 | 29 | 33 | 39 | 29 | 33 | 39 |
| At | 33 | 38 | 48 | 33 | 39 | 49 | 34 | 40 | 51 |
| | 38 | 47 | | 39 | | | 40 | | |

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

For detailed tipping calculations please refer to: <https://tipper.hyva.com>

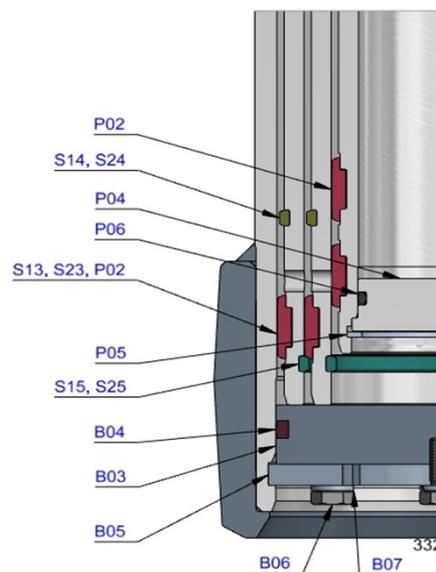
| Pos. | Part no. | Description | Qty. |
|------|------------|------------------------------------|------|
| C01 | 71839100 | DUST COVER FE 110-3/118-3 | 1 |
| P01 | 74401221 | PISTON FL2 S 072-1165-HC | 1 |
| P02 | 71853072 K | SLIDER FL 072 (2 X 1/2) A22 | 2 |
| P04 | 71822072 | BOTTOM PLATE PISTON FL 072 | 1 |
| P05 | 01745026 K | CIRCLIP 63 DIN 472 (67.2x2.0) | 1 |
| P06 | 71870210 K | O-RING PISTON BOTTOM 072 | 1 |
| P07 | 71847100 | PISTON EYE SPH. FL 072 MK2 L=075 | 1 |
| P08 | 01226420 K | O-RING 53.57 X 3.53 MM | 1 |
| P09 | 71875450 K | SPHERICAL BEARING D.50 MAINT. FREE | 1 |
| P10 | 01770560 K | CIRCLIP 75 DIN 472 (79.5x3.0) | 1 |
| P11 | 71875012 | PIN ROUND HEAD GROOVED 8x15 mm | 2 |



| | | | |
|-----|------------|-----------------------------|---|
| S21 | 74602200 | STAGE FL2 091-1125 | 1 |
| S22 | 71802091 K | PACKSET FL 091 | 1 |
| S23 | 71853091 K | SLIDER FL 091 (2 X 1/2) A22 | 1 |
| S24 | 71851091 K | OUTER STOPRING FL 091 A22 | 1 |
| S25 | 71852091 K | LIFTRING FL 091 A22 | 1 |

| | | | |
|-----|------------|-----------------------------|---|
| S11 | 74603200 | STAGE FL2 110-1125 | 1 |
| S12 | 71802110 K | PACKSET FL 110 | 1 |
| S13 | 71853110 K | SLIDER FL 110 (2 X 1/2) A22 | 1 |
| S14 | 71851110 K | OUTER STOPRING FL 110 A22 | 1 |
| S15 | 71852110 K | LIFTRING FL 110 A22 | 1 |

| | | | |
|-----|------------|-------------------------------|---|
| B01 | 74504200 | BASE FL2 129-1164-4/4BSAE-190 | 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 |



Seal kit complete

| | | | |
|--|------------|--|--|
| | 71908330 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.