

Specifications

| | |
|--------------------------------|---------|
| Max. working pressure | 250 bar |
| Weight | 188 kg |
| Working volume | 59 L |
| Total volume | 64 L |
| Max. cyl. load (start tipping) | 345 kN |

Max. pump flow

| | |
|-------------------------------------|-----------|
| With KO ¹ | 220 L/min |
| Without KO ¹ | 162 L/min |
| With KO ¹ below -20°C | 154 L/min |
| Without KO ¹ below -20°C | 113 L/min |

Tipping time

| | |
|-------------------------------------|--------|
| With KO ¹ | 16 sec |
| Without KO ¹ | 22 sec |
| With KO ¹ below -20°C | 23 sec |
| Without KO ¹ below -20°C | 31 sec |
| Allowable lowering time | 13 sec |

| Extension | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Total |
|-------------------------|------|------|------|------|---|---|---|-------|
| Effective diameter [mm] | 157 | 137 | 118 | 99 | | | | 4505 |
| Stroke* [mm] | 1105 | 1130 | 1135 | 1135 | | | | |

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.

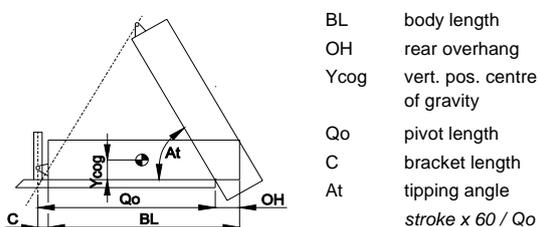
Related documentation

Bracket options: 015BRA10 & 015BRA13

Mounting instructions: CYL-0031

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

Tipping weight

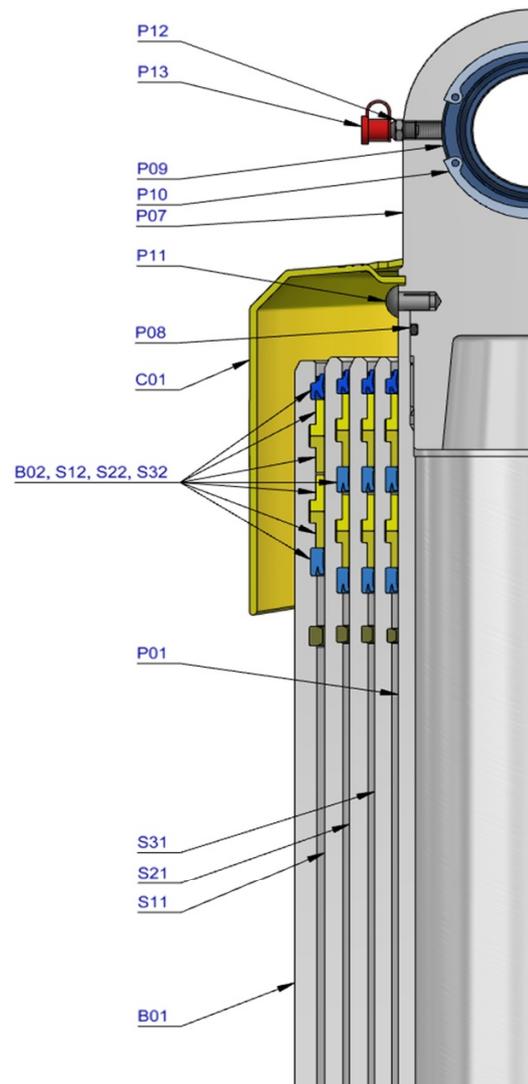


| BL [mm] | 6000 | | | 5850 | | | 5700 | | |
|-----------|------|-----|-----|------|-----|-----|------|-----|-----|
| OH [mm] | 200 | 500 | 800 | 200 | 500 | 800 | 200 | 500 | 800 |
| At [°] | 45 | 48 | 51 | 47 | 49 | 53 | 48 | 51 | 54 |
| Ycog [mm] | | | | | | | | | |
| 600 | 54 | 60 | 69 | 55 | 62 | 72 | 56 | 64 | 75 |
| 900 | 59 | 67 | 80 | 60 | 70 | 84 | 62 | 73 | |
| 1200 | 65 | 76 | | 67 | 80 | | 70 | | |

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 | 71839121 | DUST COVER FE 149-4/157-4 | 1 |
| P01 | 70473371 | PISTON MN2 S 099-1365-HD-HC | 1 |
| P02 | 70207099 K | SLIDER MN 099 (2 x 1/2) A35 | 1 |
| P03 | 70216099 K | OUTER STOPRING MN 099 A22 | 2 |
| P04 | 70230099 | BOTTOM PLATE PISTON MN 099 MK2 HD | 1 |
| P05 | 01745042 K | CIRCLIP 85 DIN 472 (90.5x3.0) | 1 |
| P06 | 70260215 K | O-RING PISTON BOTTOM 099 | 1 |
| P07 | 70235401 | PISTON EYE SPH. MN 099 MK2 L=075 GR | 1 |
| P08 | 70260115 K | O-RING 82.14 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 |

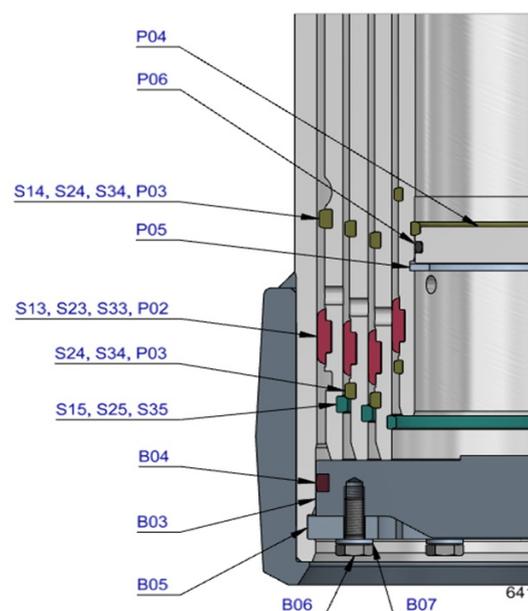


| | | | |
|-----|------------|-----------------------------|---|
| S31 | 70674370 | STAGE MN2 118-1360-HD | 1 |
| S32 | 70202118 K | PACKSET MN 118 TANDEM SEAL | 1 |
| S33 | 70207118 K | SLIDER MN 118 (2 x 1/2) A35 | 1 |
| S34 | 70216118 K | OUTER STOPRING MN 118 A22 | 2 |
| S35 | 70217118 K | LIFTRING MN 118 A22 | 1 |

| | | | |
|-----|------------|----------------------------|---|
| S21 | 70675370 | STAGE MN2 137-1360-HD | 1 |
| S22 | 70202137 K | PACKSET MN 137 TANDEM SEAL | 1 |
| S23 | 70207137 K | SLIDER MN 137 A35 | 1 |
| S24 | 70216137 K | OUTER STOPRING MN 137 A22 | 2 |
| S25 | 70217137 K | LIFTRING MN 137 A22 | 1 |

| | | | |
|-----|------------|----------------------------|---|
| S11 | 70676370 | STAGE MN2 157-1360-HD | 1 |
| S12 | 70202157 K | PACKSET MN 157 TANDEM SEAL | 1 |
| S13 | 70207157 K | SLIDER MN 157 A35 | 1 |
| S14 | 70216157 K | OUTER STOPRING MN 157 A22 | 1 |
| S15 | 70217157 K | LIFTRING MN 157 A22 | 1 |

| | | | |
|-----|------------|----------------------------------|---|
| B01 | 70377374 | BASE MN2 179-1403-4/4BSAE-290-HD | 1 |
| B02 | 70203179 K | PACKSET MN 179 | 1 |
| B03 | 70225360 | BOTTOM PLATE MN2 179 | 1 |
| B04 | 70270179 K | SEAL BOTTOM PLATE MN 179 | 1 |
| B05 | 70220185 | LOCKING PLATE MN2 179 | 3 |
| B06 | 01732055 K | BOLT HEX M8X20X1.25 SET 6 PCS | 1 |
| B07 | 01732559 K | WASHER SPRING M8 SET 6 PCS | 1 |



Seal kit complete

| | | | |
|--|------------|--|--|
| | 71907641 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.