

Specifications

| | |
|---|---------|
| Max. working pressure | 250 bar |
| Weight | 189 kg |
| Working volume | 61 L |
| Total volume | 67 L |
| Max. cyl. load (start tipping) | 345 kN |
| Max. cyl. load (end of stroke) ² | 157 kN |
| Max. cyl. load (end of stroke) ³ | 183 kN |

Max. pump flow

| | |
|-------------------------------------|-----------|
| With KO ¹ | 190 L/min |
| Without KO ¹ | 162 L/min |
| With KO ¹ below -20°C | 133 L/min |
| Without KO ¹ below -20°C | 113 L/min |

Tipping time

| | |
|-------------------------------------|--------|
| With KO ¹ | 19 sec |
| Without KO ¹ | 23 sec |
| With KO ¹ below -20°C | 27 sec |
| Without KO ¹ below -20°C | 33 sec |
| Allowable lowering time | 19 sec |

| Extension | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Total |
|-------------------------|------|------|------|------|---|---|---|-------|
| Effective diameter [mm] | 157 | 137 | 118 | 99 | | | | 4660 |
| Stroke* [mm] | 1150 | 1170 | 1170 | 1170 | | | | |

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. • ² Unsubstantial unloading (sticky load).
- ³ Substantial unloading.

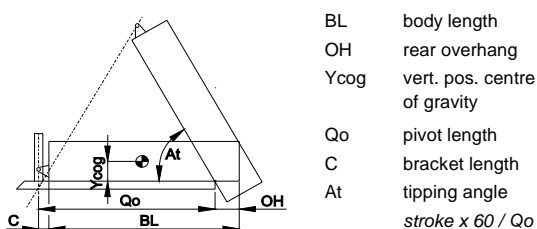
Related documentation

Bracket options: 015BRA10 & 015BRA13

Mounting instructions: CYL-0031

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

Tipping weight

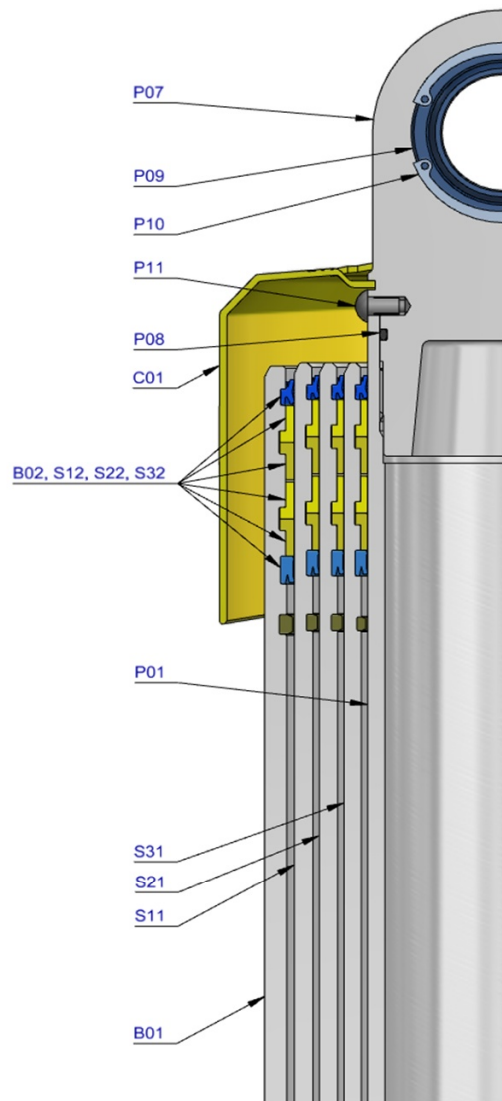


| BL [mm] | 6200 | | | 6000 | | | 5800 | | |
|-----------|------|-----|-----|------|-----|-----|------|-----|-----|
| OH [mm] | 200 | 500 | 800 | 200 | 500 | 800 | 200 | 500 | 800 |
| At [°] | 45 | 48 | 51 | 47 | 50 | 53 | 49 | 52 | 55 |
| Ycog [mm] | | | | | | | | | |
| 600 | 54 | 60 | 68 | 55 | 62 | 71 | 57 | 64 | 75 |
| 900 | 58 | 66 | 77 | 60 | 69 | 83 | 63 | 73 | |
| 1200 | 64 | 74 | | 67 | 79 | | 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 | 70463401 | PISTON MN2 S 099-1400-HC | 1 |
| P02 | 70209310 K | SLIDER MN 099 (2 x 1/2) A22 | 1 |
| P03 | 70216099 K | OUTER STOPRING MN 099 A22 | 1 |
| P04 | 70224099 | BOTTOM PLATE PISTON MN 099 | 1 |
| P05 | 01770580 K | CIRCLIP 90 DIN 472 (95.5x3.5) | 1 |
| P06 | 70260215 K | O-RING PISTON BOTTOM 099 | 1 |
| P07 | 70235400 | PISTON EYE SPH. MN 099 MK2 L=075 | 1 |
| P08 | 70260115 K | O-RING 82.14 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 |

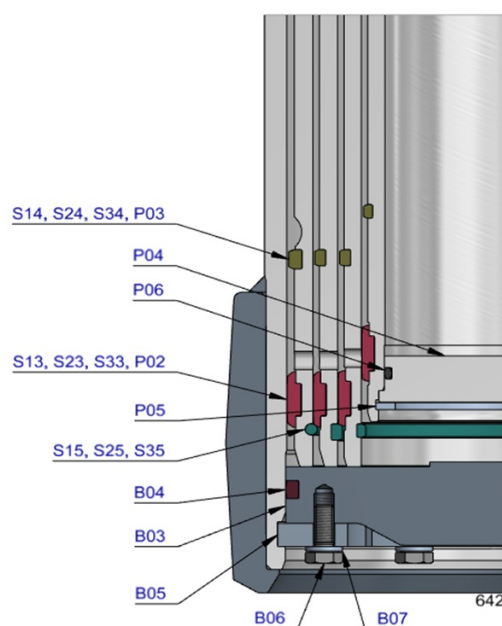


| | | | |
|-----|------------|-----------------------------|---|
| S31 | 70664370 | STAGE MN2 118-1360 | 1 |
| S32 | 70203118 K | PACKSET MN 118 | 1 |
| S33 | 70209320 K | SLIDER MN 118 (2 x 1/2) A22 | 1 |
| S34 | 70216118 K | OUTER STOPRING MN 118 A22 | 1 |
| S35 | 70217118 K | LIFTRING MN 118 A22 | 1 |

| | | | |
|-----|------------|---------------------------|---|
| S21 | 70665370 | STAGE MN2 137-1360 | 1 |
| S22 | 70203137 K | PACKSET MN 137 | 1 |
| S23 | 70207137 K | SLIDER MN 137 A35 | 1 |
| S24 | 70216137 K | OUTER STOPRING MN 137 A22 | 1 |
| S25 | 70217137 K | LIFTRING MN 137 A22 | 1 |

| | | | |
|-----|------------|---------------------------|---|
| S11 | 70666370 | STAGE MN2 157-1360 | 1 |
| S12 | 70203157 K | PACKSET MN 157 | 1 |
| S13 | 70207157 K | SLIDER MN 157 A35 | 1 |
| S14 | 70216157 K | OUTER STOPRING MN 157 A22 | 1 |
| S15 | 70213157 K | LIFTRING MN 157x5 MK2 | 1 |

| | | | |
|-----|------------|-------------------------------|---|
| B01 | 70367374 | BASE MN2 179-1403-4/4BSAE-290 | 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

| | | | |
|--|------------|--|--|
| | 71907640 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.