

Specifications

| | |
|---|---------|
| Max. working pressure | 220 bar |
| Weight | 214 kg |
| Working volume | 73 L |
| Total volume | 79 L |
| Max. cyl. load (start tipping) | 345 kN |
| Max. cyl. load (end of stroke) ² | 119 kN |
| Max. cyl. load (end of stroke) ³ | 139 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 | 23 sec |
| Without KO ¹ | 27 sec |
| With KO ¹ below -20°C | 33 sec |
| Without KO ¹ below -20°C | 39 sec |
| Allowable lowering time | 23 sec |

| Extension | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Total |
|-------------------------|------|------|------|------|---|---|---|-------|
| Effective diameter [mm] | 157 | 137 | 118 | 99 | | | | 5540 |
| Stroke* [mm] | 1370 | 1390 | 1390 | 1390 | | | | |

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.

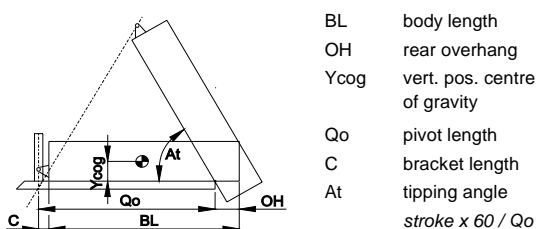
Related documentation

Bracket options: 015BRA10

Mounting instructions: CYL-0031

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

Tipping weight



| BL [mm] OH [mm] At [°] | 7300 | | | 7050 | | | 6800 | | |
|------------------------------|------|-----|-----|------|-----|-----|------|-----|-----|
| | 200 | 500 | 800 | 200 | 500 | 800 | 200 | 500 | 800 |
| Ycog [mm] | 46 | 48 | 50 | 48 | 50 | 53 | 49 | 52 | 55 |
| C | 46 | 50 | 55 | 47 | 51 | 57 | 48 | 53 | 60 |
| At | 49 | 54 | 61 | 51 | 56 | 64 | 52 | 59 | 68 |
| stroke x 60 / Qo | 53 | 59 | 68 | 55 | 62 | 73 | 57 | 66 | 79 |

Tipping weight [ton] at maximum pressure of 220 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. |
|------|----------|-------------|------|
|------|----------|-------------|------|

| | | | |
|-----|------------|--|---|
| P01 | 70493581 | PISTON MN2 S 099-1585-HC (V+SR=74) | 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 | 70235420 | PISTON EYE SOLID MN 099 L=070 H=50 WD=50 | 1 |
| P08 | 70260115 K | O-RING 82.14 X 3.53 MM | 1 |

| | | | |
|-----|------------|---------------------------------|---|
| S31 | 70694581 | STAGE MN2 118-1580-HC (V+SR=74) | 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 |

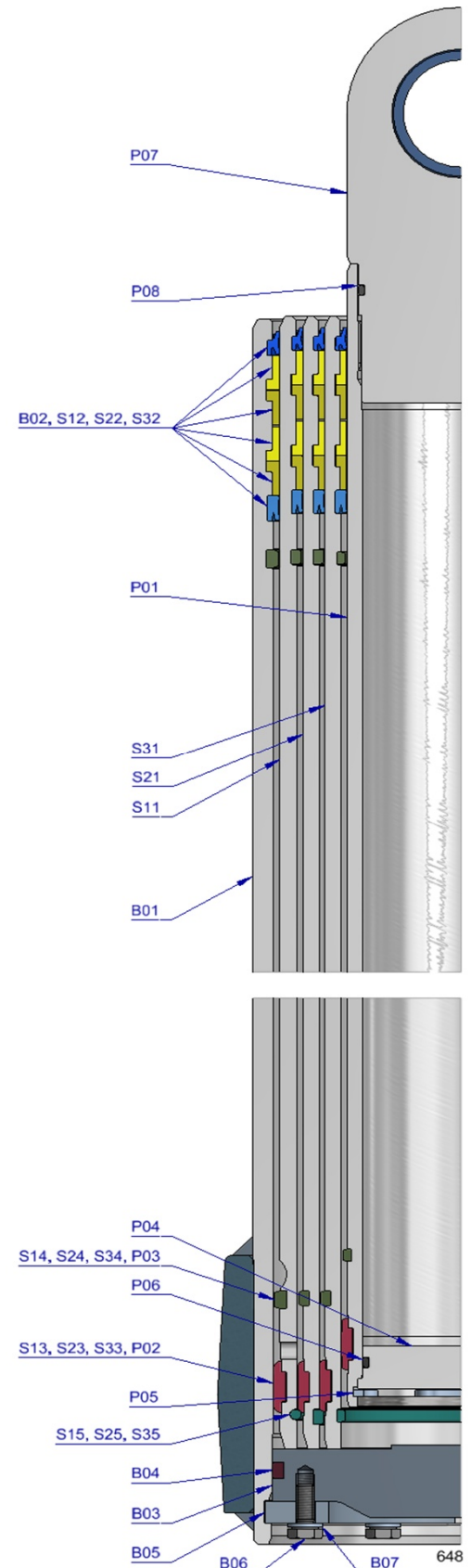
| | | | |
|-----|------------|---------------------------------|---|
| S21 | 70695581 | STAGE MN2 137-1580-HC (V+SR=74) | 1 |
| S22 | 70203137 K | PACKSET MN 137 | 1 |
| S23 | 70207137 K | SLIDER MN 137 A35 | 1 |
| S24 | 70216137 K | OUTER STOPRING MN 137 A22 | 1 |
| S25 | 70217137 K | LIFTRING MN 137 A22 | 1 |

| | | | |
|-----|------------|---------------------------------|---|
| S11 | 70696581 | STAGE MN2 157-1580-HC (V+SR=74) | 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 | 70367592 | BASE MN2 179-1623-4/4BSAE-N1553-V0700 | 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.