

* incl. 20 [-5; +30] mm pull out

3D model is available on request or www.hyva.com

| Specifications | | Max. pump flow | | Tipping time | |
|---|---------|-------------------------------------|-----------|-------------------------------------|--------|
| Max. working pressure | 250 bar | With KO ¹ | 122 L/min | With KO ¹ | 10 sec |
| Weight | 90 kg | Without KO ¹ | 86 L/min | Without KO ¹ | 14 sec |
| Working volume | 20 L | With KO ¹ below -20°C | 85 L/min | With KO ¹ below -20°C | 14 sec |
| Total volume | 22 L | Without KO ¹ below -20°C | 60 L/min | Without KO ¹ below -20°C | 20 sec |
| Max. cyl. load (start tipping) | 195 kN | | | Allowable lowering time | 10 sec |
| Max. cyl. load (end of stroke) ² | 115 kN | | | | |
| Max. cyl. load (end of stroke) ³ | 134 kN | | | | |

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

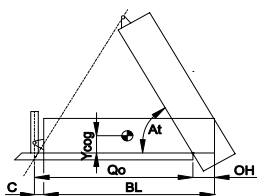
| | |
|-------------------------|---------------------|
| Bracket options: | O15BRA11 & O15BRA13 |
| Mounting instructions: | CYL-0033 |
| Oil specifications: | OIL-0011 |
| Spec sheet explanation: | CYL-0041 |

Configuration

| Extension | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Total |
|-------------------------|-----|------|------|---|---|---|---|-------|
| Effective diameter [mm] | 110 | 91 | 72 | | | | | 3010 |
| Stroke* [mm] | 990 | 1010 | 1010 | | | | | |

Tipping weight

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

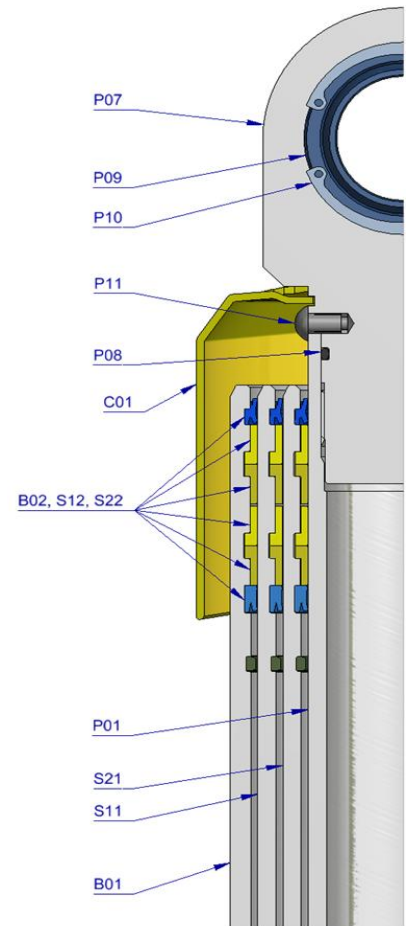


BL body length
OH rear overhang
Ycog vert. pos. centre of gravity
Qo pivot length
C bracket length
At tipping angle
stroke x 60 / Qo

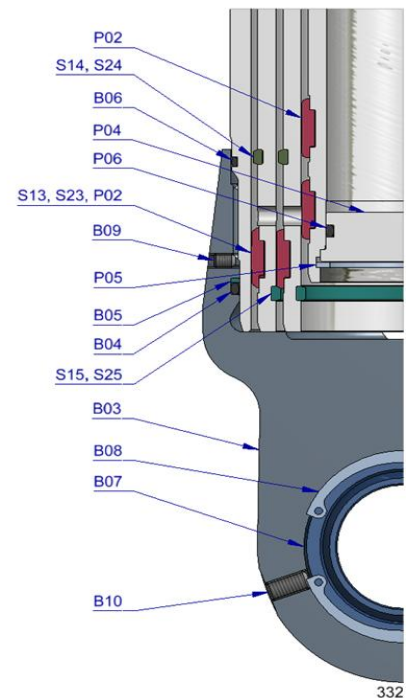
| BL [mm] | 200 | 3900 | 600 | 200 | 3850 | 600 | 200 | 3800 | 600 |
|-----------|-----|------|-----|-----|------|-----|-----|------|-----|
| OH [mm] | 47 | 400 | 53 | 48 | 400 | 54 | 48 | 400 | 55 |
| At [°] | | 50 | | | 51 | | | 51 | |
| Ycog [mm] | | | | | | | | | |
| C [mm] | 29 | 32 | 37 | 29 | 32 | 38 | 29 | 33 | 38 |
| At [°] | 32 | 38 | 46 | 33 | 38 | 47 | 33 | 39 | 48 |
| | 37 | 45 | | 38 | 47 | | 39 | | |

Tipping weight [ton] at maximum pressure of 250 bar for a vertically mounted cylinder and C is 178 mm

| Pos. | Part no. | Description | Qty. |
|------|-----------|--------------------------------------|------|
| C01 | 71839100 | DUST COVER FE 110-3/118-3 | 1 |
| P01 | 74461251 | PISTON FL3 S 072-1205-HC | 1 |
| P02 | 71853072K | SLIDER FL 072 (2 X 1/2) A22 | 2 |
| P04 | 71822072 | BOTTOM PLATE PISTON FL 072 | 1 |
| P05 | 01745026K | CIRCLIP 63 DIN 472 (67.2x2.0) | 1 |
| P06 | 71870210K | O-RING PISTON BOTTOM 072 | 1 |
| P07 | 71847100 | PISTON EYE SPH. FL3 072 L=075 | 1 |
| P08 | 01226420K | O-RING 53.57 X 3.53 MM | 1 |
| P09 | 71875450K | SPHERICAL BEARING D.50.3 MAINT. FREE | 1 |
| P10 | 01770560K | CIRCLIP 75 DIN 472 (79.5x2.5) | 1 |
| P11 | 71875012 | PIN ROUND HEAD GROOVED 8x15 mm | 2 |



| | | | |
|-----|-----------|--|---|
| S21 | 74602251 | STAGE FL2 091-1200-HC | 1 |
| S22 | 71802091K | PACKSET FL 091 | 1 |
| S23 | 71853091K | SLIDER FL 091 (2 X 1/2) A22 | 1 |
| S24 | 71851091K | OUTER STOPRING FL 091 A22 | 1 |
| S25 | 71852091K | LIFTRING FL 091 A22 | 1 |
| S11 | 74603251 | STAGE FL2 110-1200-HC | 1 |
| S12 | 71802110K | PACKSET FL 110 | 1 |
| S13 | 71853110K | SLIDER FL 110 (2 X 1/2) A22 | 1 |
| S14 | 71851110K | OUTER STOPRING FL 110 A22 | 1 |
| S15 | 71852110K | LIFTRING FL 110 A22 | 1 |
| B01 | 74504280 | BASE FL2 S 129-1200 | 1 |
| B02 | 71802129K | PACKSET FL 129/HP 129 | 1 |
| B03 | 71849010 | THREADED BOTTOM FL2 129-4/4SAE-90 | 1 |
| B04 | 01226676K | O-RING 124 X 4 NBR 70 SHORE A | 1 |
| B05 | 71849210K | BACK-UP RING PTFE STMS 130.1 X 123.5 X 2 | 1 |
| B06 | 01225554K | O-RING 124 X 3 NBR 70 SHORE A | 1 |
| B07 | 71875450K | SPHERICAL BEARING D.50.3 MAINT. FREE | 1 |
| B08 | 01770560K | CIRCLIP 75 DIN 472 (79.5x2.5) | 1 |
| B09 | 01792571K | LOCKING SCREW M6X12 INT. HEX. DIN 916 | 1 |
| B10 | 15013720K | BOLT HSHC M8X16X1 Q8.8 DIN 916 ZP | 2 |



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Seal kit complete

| | |
|-----------|--|
| 71908335K | Consists of all packsets with packset grease and O-rings |
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Notes

The inner stopring and piston bottom are pre-mounted on spare bases, stage and pistons. Therefore, when ordering new tubes, it is not required to order these parts separately.

For repair instructions see: CYL-0040. Serial no. is located on type plate and near type plate support.