

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

3D model is available on request or [www.hyva.com](http://www.hyva.com)

| Specifications                              |         | Max. pump flow                      |           | Tipping time                        |        |
|---|---------|-------------------------------------|-----------|-------------------------------------|--------|
| Max. working pressure                       | 250 bar | With KO <sup>1</sup>                | 122 L/min | With KO <sup>1</sup>                | 9 sec  |
| Weight                                      | 90 kg   | Without KO <sup>1</sup>             | 86 L/min  | Without KO <sup>1</sup>             | 13 sec |
| Working volume                              | 19 L    | With KO <sup>1</sup> below -20°C    | 85 L/min  | With KO <sup>1</sup> below -20°C    | 13 sec |
| Total volume                                | 21 L    | Without KO <sup>1</sup> below -20°C | 60 L/min  | Without KO <sup>1</sup> below -20°C | 19 sec |
| Max. cyl. load (start tipping)              | 195 kN  |                                     |           | Allowable lowering time             | 9 sec  |
| Max. cyl. load (end of stroke) <sup>2</sup> | 133 kN  |                                     |           |                                     |        |
| Max. cyl. load (end of stroke) <sup>3</sup> | 155 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. • <sup>1</sup> Hyva knock-off. • <sup>2</sup> Unsubstantial unloading (sticky load). • <sup>3</sup> Substantial unloading.

Related documentation

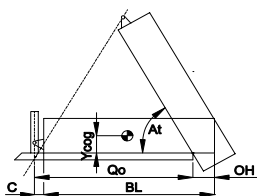
Bracket options: 015BRA10 & 015BRA13  
 Mounting instructions: CYL-0031  
 Oil specifications: OIL-0011  
 Spec sheet explanation: CYL-0041

Configuration

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

Tipping weight

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

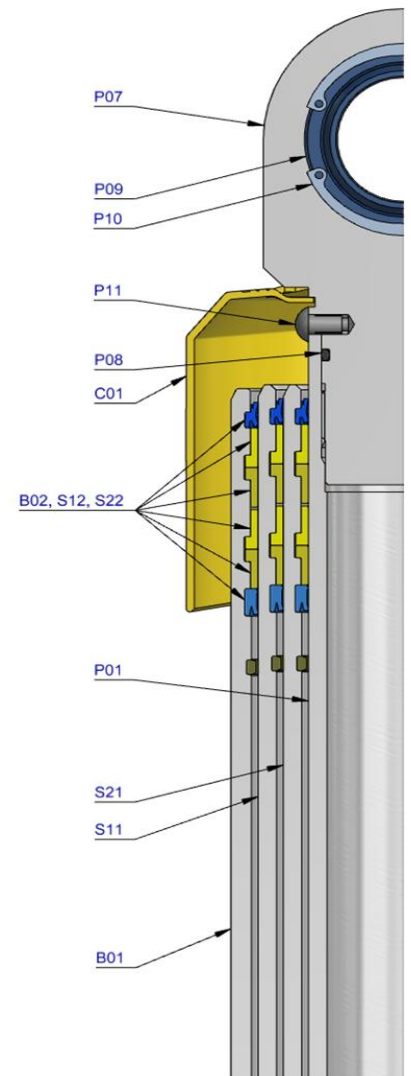


BL body length  
 OH rear overhang  
 Ycog vert. pos. centre of gravity  
 Qo pivot length  
 C bracket length  
 At tipping angle  
 $stroke \times 60 / Qo$

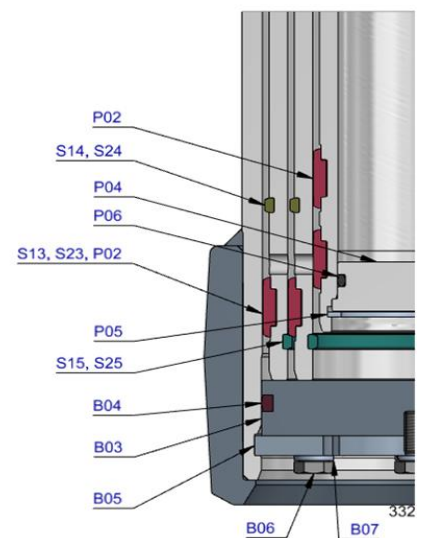
| BL [mm]   | 200 | 3700 |    | 200 | 3650 |    | 200 | 3600 |    |
|-----------|-----|------|----|-----|------|----|-----|------|----|
| OH [mm]   | 46  | 49   | 52 | 47  | 50   | 53 | 47  | 51   | 54 |
| At [°]    | 46  | 49   | 52 | 47  | 50   | 53 | 47  | 51   | 54 |
| Ycog [mm] | 29  | 32   | 38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

| Pos. | Part no.  | Description                          | Qty. |
|------|-----------|--------------------------------------|------|
| C01  | 71839100  | DUST COVER FE 110-3/118-3            | 1    |
| P01  | 74461201  | PISTON FL3 S 072-1130-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 | 74602201  | STAGE FL2 091-1125-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 | 74603201  | STAGE FL2 110-1125-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 | 74504200  | BASE FL2 129-1164-4/4BSAE-190 | 1 |
| B02 | 71802129K | PACKSET FL 129/HP 129         | 1 |
| B03 | 71825415  | BOTTOM PLATE FL2 129          | 1 |
| B04 | 71870025K | O-RING BOTTOM PLATE FL 129    | 1 |
| B05 | 71820129  | LOCKING PLATE FL 129          | 3 |
| B06 | 01732055K | BOLT HEX M8X20X1.25 SET 3 PCS | 1 |
| B07 | 01732559K | WASHER SPRING M8 SET 3 PCS    | 1 |



Seal kit complete

|           |  |
|-----------|--|
| 71908330K | Consists of all packsets with packset grease and O-rings |
|-----------|--|

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.