

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

3D model is available on request

### Specifications

Max. working pressure	250 bar
Weight	159 kg
Working volume	50 L
Total volume	54 L
Max. cyl. load (start tipping)	345 kN

### Max. pump flow

With KO <sup>1</sup>	190 L/min
Without KO <sup>1</sup>	170 L/min
With KO <sup>1</sup> below -20°C	133 L/min
Without KO <sup>1</sup> below -20°C	119 L/min

### Tipping time

With KO <sup>1</sup>	16 sec
Without KO <sup>1</sup>	18 sec
With KO <sup>1</sup> below -20°C	23 sec
Without KO <sup>1</sup> below -20°C	26 sec
Allowable lowering time	16 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	149	129	110					3730
Stroke* [mm]	1230	1250	1250					

### 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.

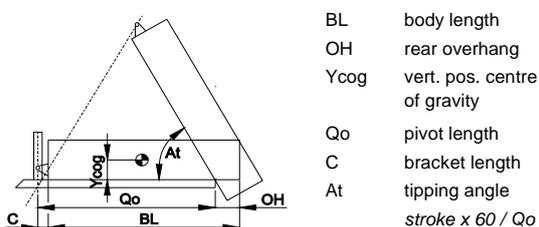
### Related documentation

Bracket options: 015BRA13 & 015BRA17

Mounting instructions: CYL-0032

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

### Tipping weight

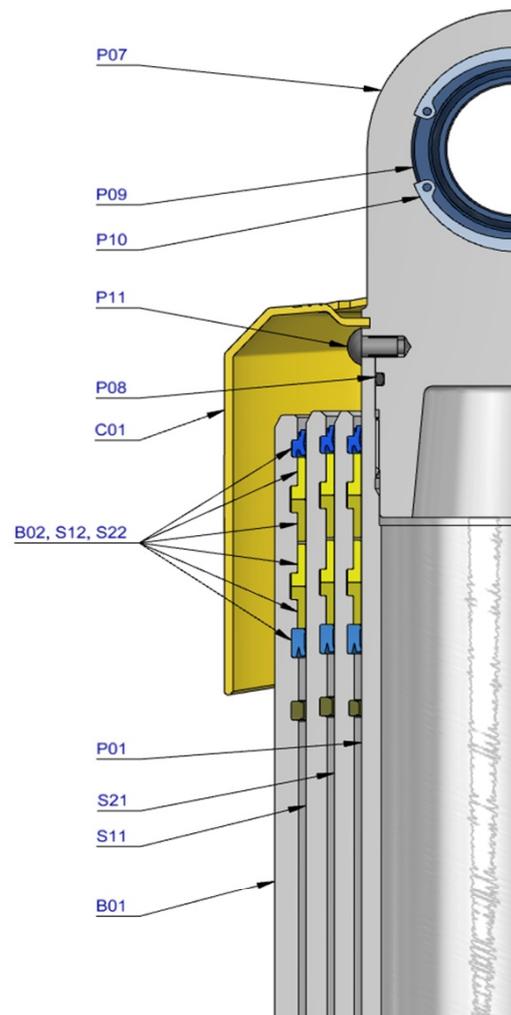


BL [mm]	4900			4750			4600		
OH [mm]	200	400	600	200	400	600	200	400	600
At [°]	46	49	51	48	50	53	50	52	55
Ycog [mm]									
400	63	68	74	64	70	77	65	71	79
700	69	76		71	78		73		
1000									

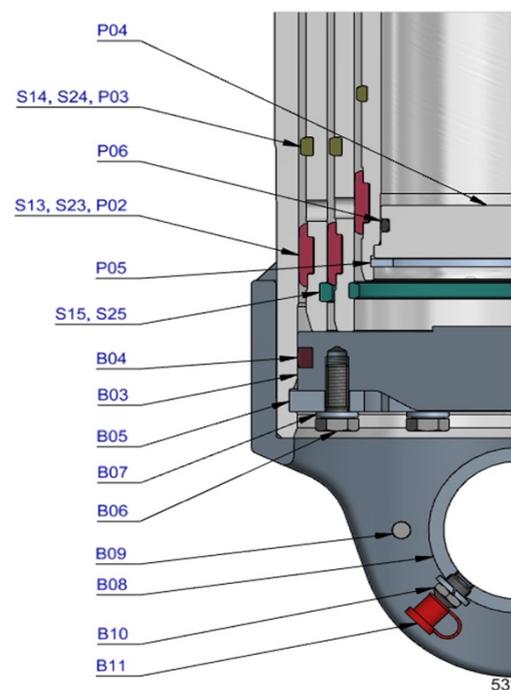
Tipping weight [ton] at maximum pressure of 250 bar for a vertically mounted cylinder and C is 158 mm

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

Pos.	Part no.	Description	Qty.
C01	71839120	DUST COVER FE 149-3	1
P01	74403441	PISTON FL2 S 110-1445-HC	1
P02	71853110 K	SLIDER FL 110 (2 X 1/2) A22	1
P03	71851110 K	OUTER STOPRING FL 110 A22	1
P04	71822110	BOTTOM PLATE PISTON FL 110	1
P05	01745050 K	CIRCLIP 100 DIN 472 (105.5x3.0)	1
P06	71870220 K	O-RING PISTON BOTTOM 110	1
P07	71847300	PISTON EYE SPH. FL 110 MK2 L=075	1
P08	01226538 K	O-RING 91.67 X 3.53 MM NBR	1
P09	71875455 K	SPHERICAL BEARING D.50.8 MAINT. FREE	1
P10	01770560 K	CIRCLIP 75 DIN 472 (79.5x3.0)	1
P11	71875012	PIN ROUND HEAD GROOVED 8x15 mm	2



S21	74604440	STAGE FL2 129-1440	1
S22	71802129 K	PACKSET FL 129/HP 129	1
S23	71853129 K	SLIDER FL 129 (2 X 1/2) A22	1
S24	71851129 K	OUTER STOPRING FL 129 A22	1
S25	71852129 K	LIFTRING FL 129 A22	1
S11	74605440	STAGE FL2 149-1440	1
S12	71802149 K	PACKSET FL 149/HP 150	1
S13	71807151 K	SLIDER FL 149 A35	1
S14	71851149 K	OUTER STOPRING FL 149 A22	1
S15	71852149 K	LIFTRING FL 149 A22	1
B01	74506454	BASE FL2 E 169-1479-4/4NSAE-330/450-O209	1
B02	71802169 K	PACKSET FL 169	1
B03	71825425	BOTTOM PLATE FL2 169	1
B04	71870035 K	SEAL BOTTOM PLATE FL 169	1
B05	71820169	LOCKING PLATE FL 169	3
B06	01732055 K	BOLT HEX M8X20X1.25 SET 6 PCS	1
B07	01732559 K	WASHER SPRING M8 SET 6 PCS	1
B08	01793051	EYE TRUNNION TUBE (63-52.5) L=209	1
B09	01746121 K	BOLT LOCKING M8x25 DIN 7991	1
B10	56288044 K	GREASE NIPPLE M8x1 DIN 71412	2
B11	01317670 K	GREASER PROTECTION CAP	2



### Seal kit complete

	71908530 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.