

## Specifications

Max. working pressure	250 bar
Weight	106 kg
Working volume	23 L
Total volume	26 L
Max. cyl. load (start tipping)	195 kN
Max. cyl. load (end of stroke) <sup>2</sup>	84 kN
Max. cyl. load (end of stroke) <sup>3</sup>	98 kN

## Max. pump flow

With KO <sup>1</sup>	122 L/min
Without KO <sup>1</sup>	86 L/min
With KO <sup>1</sup> below -20°C	85 L/min
Without KO <sup>1</sup> below -20°C	60 L/min

## Tipping time

With KO <sup>1</sup>	11 sec
Without KO <sup>1</sup>	16 sec
With KO <sup>1</sup> below -20°C	16 sec
Without KO <sup>1</sup> below -20°C	23 sec
Allowable lowering time	11 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	110	91	72					3490
Stroke* [mm]	1150	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. • <sup>1</sup> Hyva knock-off. • <sup>2</sup> Unsubstantial unloading (sticky load).
- <sup>3</sup> Substantial unloading.

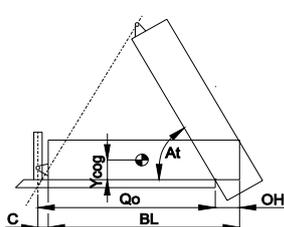
## Related documentation

Bracket options: 015BRA10 & 015BRA13

Mounting instructions: CYL-0031

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

## Tipping weight



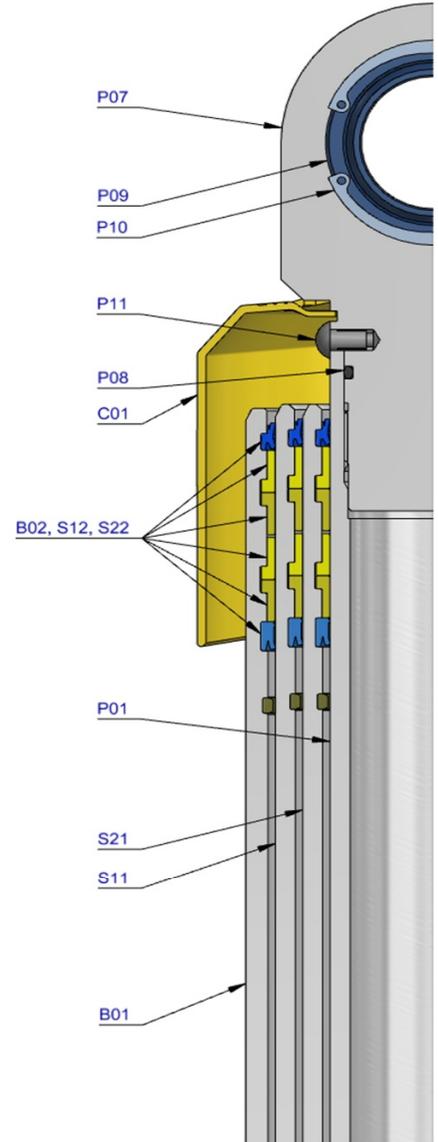
BL	body length
OH	rear overhang
Ycog	vert. pos. centre of gravity
Qo	pivot length
C	bracket length
At	tipping angle
	stroke x 60 / Qo

BL [mm]	4600			4450			4300		
OH [mm]	200	400	600	200	400	600	200	400	600
At [°]	46	49	51	48	51	53	50	53	56
Ycog [mm]									
400	27	30	33	28	31	34	28	31	36
700	30	33	38	31	35	40	32	36	43
1000	34	38	45	35	40	49	37	43	

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>

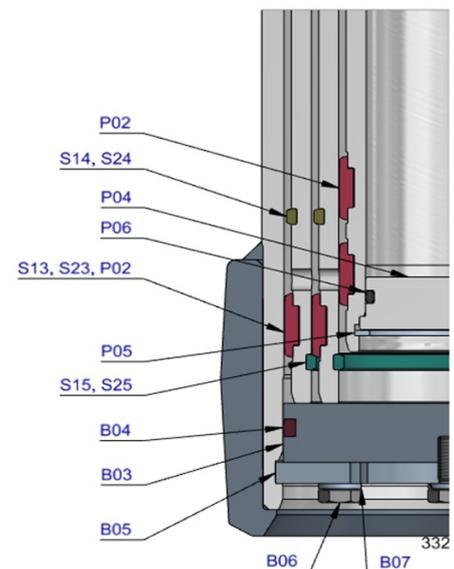
Pos.	Part no.	Description	Qty.
C01	71839100	DUST COVER FE 110-3/118-3	1
P01	74401391	PISTON FL2 S 072-1395-HC	1
P02	71853072 K	SLIDER FL 072 (2 X 1/2) A22	2
P04	71822072	BOTTOM PLATE PISTON FL 072	1
P05	01745026 K	CIRCLIP 63 DIN 472 (67.2x2.0)	1
P06	71870210 K	O-RING PISTON BOTTOM 072	1
P07	71847100	PISTON EYE SPH. FL 072 MK2 L=075	1
P08	01226420 K	O-RING 53.57 X 3.53 MM	1
P09	71875450 K	SPHERICAL BEARING D.50.3 MAINT. FREE	1
P10	01770560 K	CIRCLIP 75 DIN 472 (79.5x3.0)	1
P11	71875012	PIN ROUND HEAD GROOVED 8x15 mm	2



S21	74602370	STAGE FL2 091-1360	1
S22	71802091 K	PACKSET FL 091	1
S23	71853091 K	SLIDER FL 091 (2 X 1/2) A22	1
S24	71851091 K	OUTER STOPRING FL 091 A22	1
S25	71852091 K	LIFTRING FL 091 A22	1

S11	74603370	STAGE FL2 110-1360	1
S12	71802110 K	PACKSET FL 110	1
S13	71853110 K	SLIDER FL 110 (2 X 1/2) A22	1
S14	71851110 K	OUTER STOPRING FL 110 A22	1
S15	71852110 K	LIFTRING FL 110 A22	1

B01	74504370	BASE FL2 129-1399-4/4BSAE-190	1
B02	71802129 K	PACKSET FL 129/HP 129	1
B03	71825415	BOTTOM PLATE FL2 129	1
B04	71870025 K	O-RING BOTTOM PLATE FL 129	1
B05	71820129	LOCKING PLATE FL 129	3
B06	01732055 K	BOLT HEX M8X20X1.25 SET 3 PCS	1
B07	01732559 K	WASHER SPRING M8 SET 3 PCS	1



## Seal kit complete

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