

## Specifications

Max. working pressure	250 bar
Weight	157 kg
Working volume	47 L
Total volume	51 L
Max. cyl. load (start tipping)	175 kN
Max. cyl. load (end of stroke) <sup>2</sup>	89 kN
Max. cyl. load (end of stroke) <sup>3</sup>	103 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>	23 sec
Without KO <sup>1</sup>	33 sec
With KO <sup>1</sup> below -20°C	33 sec
Without KO <sup>1</sup> below -20°C	47 sec
Allowable lowering time	23 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	149	129	110	91	72			4655
Stroke* [mm]	915	935	935	935	935			

## 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.

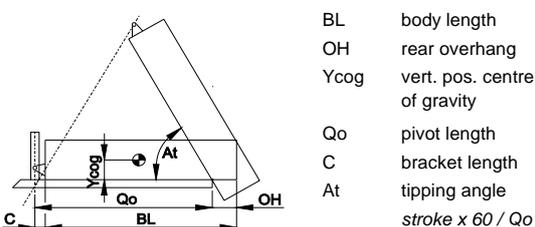
## Related documentation

Bracket options: 015BRA10 & 015BRA13

Mounting instructions: CYL-0031

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

## Tipping weight



BL [mm]	6200			6000			5800		
OH [mm]	200	500	800	200	500	800	200	500	800
At [°]	45	48	51	47	50	53	49	52	55
Ycog [mm]									
600	29	33	38	30	34	40	31	36	43
900	32	37		33	39		35		
1200	36			37					

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	71839122	DUST COVER FE 149-5/157-5	1
P01	74401231	PISTON FL2 S 072-1180-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 MAINT. FREE	1
P10	01770560 K	CIRCLIP 75 DIN 472 (79.5x3.0)	1
P11	71875012	PIN ROUND HEAD GROOVED 8x15 mm	2

S41	74602200	STAGE FL2 091-1125	1
S42	71802091 K	PACKSET FL 091	1
S43	71853091 K	SLIDER FL 091 (2 X 1/2) A22	1
S44	71851091 K	OUTER STOPRING FL 091 A22	1
S45	71852091 K	LIFTRING FL 091 A22	1

S31	74603200	STAGE FL2 110-1125	1
S32	71802110 K	PACKSET FL 110	1
S33	71853110 K	SLIDER FL 110 (2 X 1/2) A22	1
S34	71851110 K	OUTER STOPRING FL 110 A22	1
S35	71852110 K	LIFTRING FL 110 A22	1

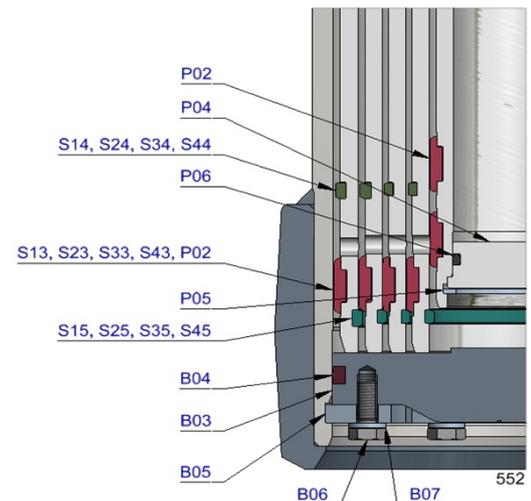
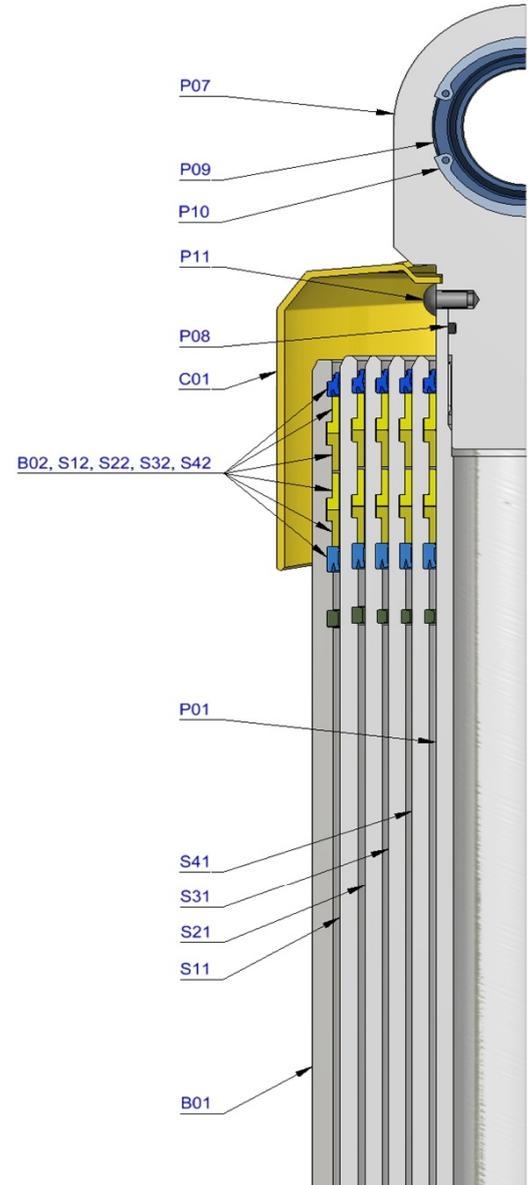
S21	74604200	STAGE FL2 129-1125	1
S22	71802129 K	PACKSET FL 129/HP 129	1
S23	71853129 K	SLIDER FL 129 (2 X 1/2) A22	1
S24	71851129 K	OUTER STOPRING FL 129 A22	1
S25	71852129 K	LIFTRING FL 129 A22	1

S11	74605200	STAGE FL2 149-1125	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	74506200	BASE FL2 169-1164-4/4BSAE-190	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

### Seal kit complete

	71908550 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.