

\* 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>	190 L/min	With KO <sup>1</sup>	13 sec
Weight	228 kg	Without KO <sup>1</sup>	137 L/min	Without KO <sup>1</sup>	18 sec
Working volume	41 L	With KO <sup>1</sup> below -20°C	133 L/min	With KO <sup>1</sup> below -20°C	19 sec
Total volume	45 L	Without KO <sup>1</sup> below -20°C	96 L/min	Without KO <sup>1</sup> below -20°C	26 sec
Max. cyl. load (start tipping)	245 kN			Allowable lowering time	13 sec
Max. cyl. load (end of stroke) <sup>2</sup>	191 kN				
Max. cyl. load (end of stroke) <sup>3</sup>	223 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

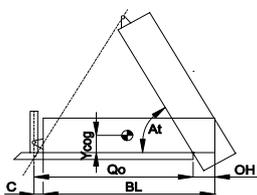
- Bracket options: 015BRA10 & 015BRA12
- Mounting instructions: CYL-0030
- Oil specifications: OIL-0011
- Spec sheet explanation: CYL-0041

Configuration

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	129	110	91					4270
Stroke* [mm]	1410	1430	1430					

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

Tipping weight

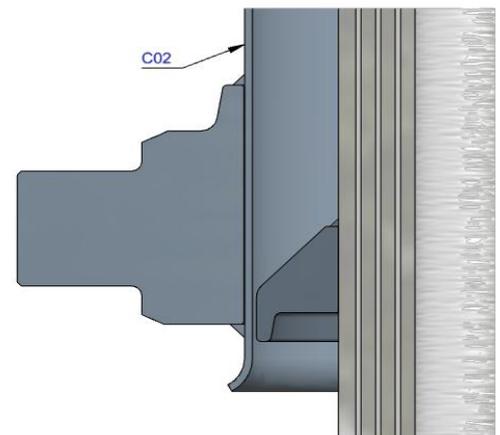
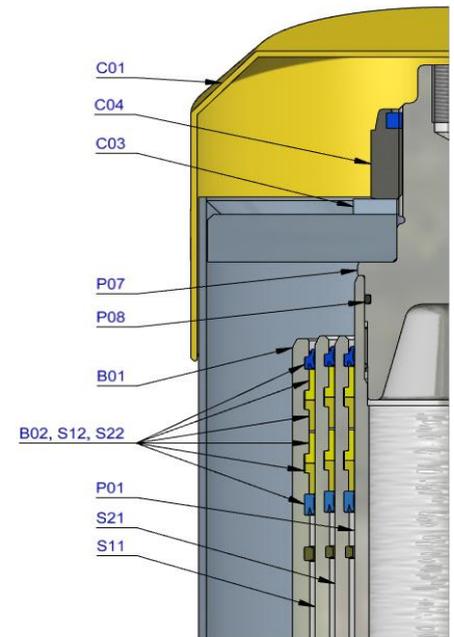


- BL body length
- OH rear overhang vert. pos. centre of gravity
- Ycog of gravity
- Qo pivot length
- C bracket length
- At tipping angle stroke x 60 / Qo

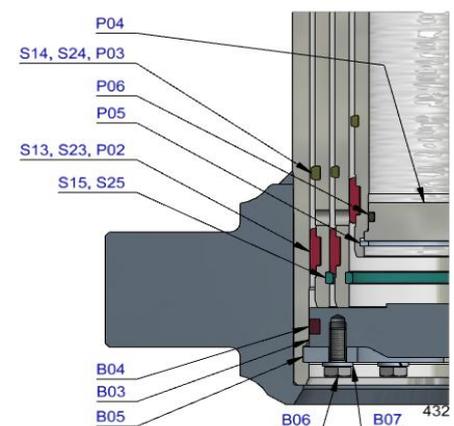
BL [mm]	5700	5450	5200						
OH [mm]	500	800	200	500	800	200	500	800	
At [°]	44	47	50	46	49	52	49	52	55
Ycog [mm]	600	57	46	52	61	48	55		
C	45	50	57	46	52	61	48	55	
At	900	48	55	50	58	61	53		
	1200	52							

Tipping weight [ton] at maximum pressure of 250 bar for a vertically mounted cylinder and C is 229 mm

Pos.	Part no.	Description	Qty.
C01	71839040	DUST COVER FC LOW 15-244	1
C02	71706635	COVER 242-1445 PIN60 A340 FIX	1
C03	01702956K	WASHER M48 DIN 125B ZP	1
C04	01702907K	TOPNUT NYLOC M48x3 DIN 985 ZP	1
P01	74462651	PISTON FL3 S 091-1645-HC	1
P02	71853091K	SLIDER FL 091 (2 X 1/2) A22	1
P03	71851091K	OUTER STOPRING FL 091 A22	1
P04	71822091	BOTTOM PLATE PISTON FL 091	1
P05	01745012K	CIRCLIP 82 DIN 472 (87.5x2.5)	1
P06	71870215K	O-RING PISTON BOTTOM 091	1
P07	71848200	PISTON HEAD FL3 091	1
P08	01226430K	O-RING 72.62 X 3.53 MM	1



S21	74603651	STAGE FL2 110-1640-HC	1
S22	71802110K	PACKSET FL 110	1
S23	71853110K	SLIDER FL 110 (2 X 1/2) A22	1
S24	71851110K	OUTER STOPRING FL 110 A22	1
S25	71852110K	LIFTRING FL 110 A22	1
S11	74604651	STAGE FL2 129-1640-HC	1
S12	71802129K	PACKSET FL 129/HP 129	1
S13	71853129K	SLIDER FL 129 (2 X 1/2) A22	1
S14	71851129K	OUTER STOPRING FL 129 A22	1
S15	71852129K	LIFTRING FL 129 A22	1
B01	74505650R1345	BASE FL2 149-1679-4/4BSAE-190-C242	1
B02	71802149K	PACKSET FL 149/HP 150	1
B03	71825420	BOTTOM PLATE FL2 149	1
B04	71870030K	SEAL BOTTOM PLATE FL 149	1
B05	71820149	LOCKING PLATE FL 149	3
B06	01732055K	BOLT HEX M8X20X1.25 SET 6 PCS	1
B07	01732559K	WASHER SPRING M8 SET 6 PCS	1



Seal kit complete

71908430K	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.