

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

3D model is available on request

Specifications

Max. working pressure	250 bar
Weight	168 kg
Working volume	51 L
Total volume	55 L
Max. cyl. load (start tipping)	345 kN

Max. pump flow

With KO ¹	220 L/min
Without KO ¹	190 L/min
With KO ¹ below -20°C	154 L/min
Without KO ¹ below -20°C	133 L/min

Tipping time

With KO ¹	14 sec
Without KO ¹	16 sec
With KO ¹ below -20°C	20 sec
Without KO ¹ below -20°C	23 sec
Allowable lowering time	11 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	149	129	110					3830
Stroke* [mm]	1260	1285	1285					

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.
- ¹ Hyva knock-off.

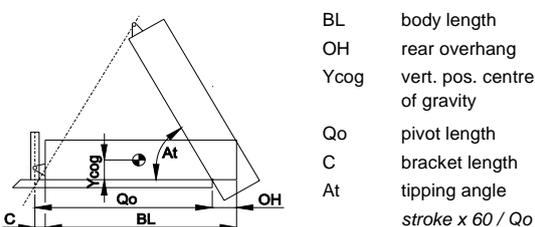
Related documentation

Bracket options: 015BRA10 & 015BRA13

Mounting instructions: CYL-0031

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

Tipping weight

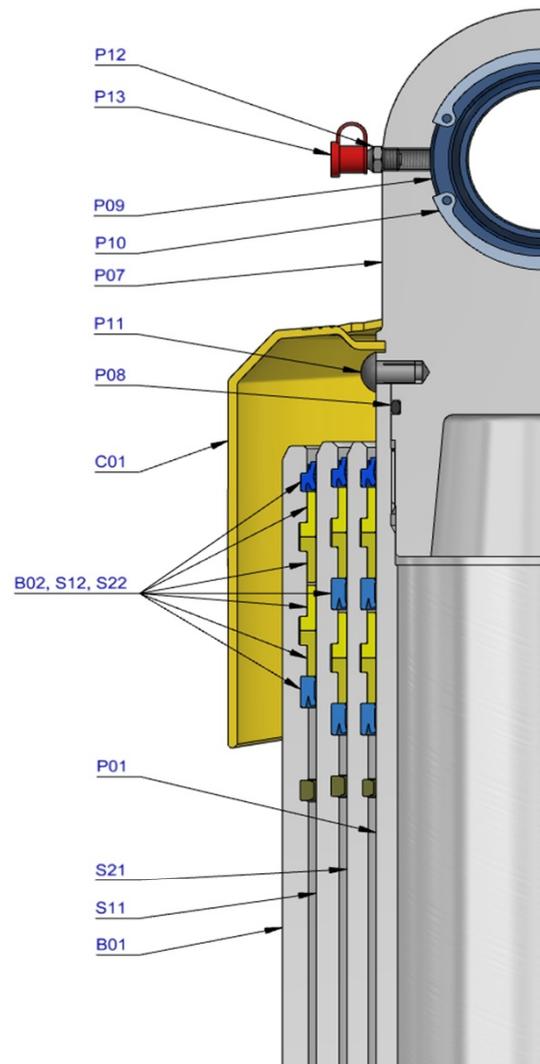


BL [mm]	5000			4850			4700		
OH [mm]	200	400	600	200	400	600	200	400	600
At [°]	47	49	51	48	51	53	50	53	56
Ycog [mm]									
Qo	63	68	74	64	69	76	65	71	79
C	69	75	84	70	78		72		
At	76								

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>

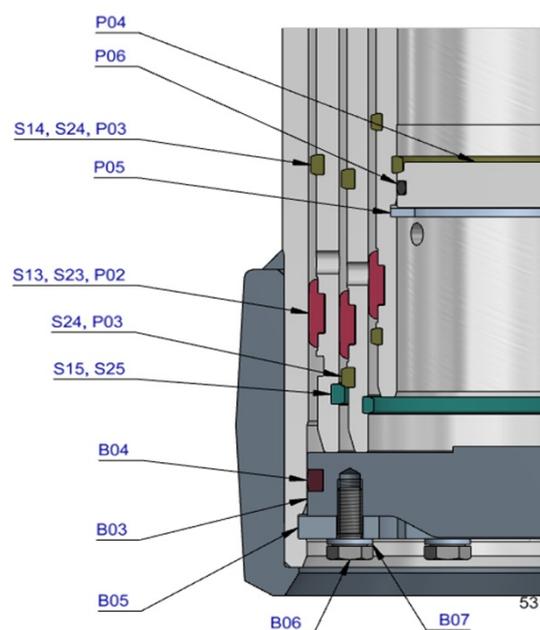
Pos.	Part no.	Description	Qty.
C01	71839120	DUST COVER FE 149-3	1
P01	74413551	PISTON FL2 S 110-1560-HD-HC	1
P02	71807112 K	SLIDER FL 110 (2 X 1/2) A35	1
P03	71851110 K	OUTER STOPRING FL 110 A22	2
P04	71822710	BOTTOM PLATE PISTON FL 110 MK2 HD	1
P05	01745021 K	CIRCLIP 97 DIN 472 (102.5x3.0)	1
P06	71870220 K	O-RING PISTON BOTTOM 110	1
P07	71847301	PISTON EYE SPH. FL 110 MK2 L=075 GR	1
P08	01226538 K	O-RING 91.67 X 3.53 MM NBR	1
P09	01770085 K	SPHERICAL BEARING D.50 DO GREASED	1
P10	01770560 K	CIRCLIP 75 DIN 472 (79.5x3.0)	1
P11	71875012	PIN ROUND HEAD GROOVED 8x15 mm	2
P12	56288044 K	GREASE NIPPLE M8x1 DIN 71412	1
P13	01317670 K	GREASER PROTECTION CAP	1



S21	74614510	STAGE FL2 129-1510-HD	1
S22	71808129 K	PACKSET FL 129/HP 129 TANDEM SEAL	1
S23	71807131 K	SLIDER FL 129 (2 X 1/2) A35	1
S24	71851129 K	OUTER STOPRING FL 129 A22	2
S25	71852129 K	LIFTRING FL 129 A22	1

S11	74615510	STAGE FL2 149-1510-HD	1
S12	71808149 K	PACKSET FL 149/HP 150 TANDEM SEAL	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	74516510	BASE FL2 169-1549-4/4BSAE-190-HD	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

	71908531 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.