

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

3D model is available on request

Specifications

Max. working pressure	250 bar
Weight	151 kg
Working volume	42 L
Total volume	46 L
Max. cyl. load (start tipping)	345 kN
Max. cyl. load (end of stroke) ²	163 kN
Max. cyl. load (end of stroke) ³	191 kN

Max. pump flow

With KO ¹	220 L/min
Without KO ¹	162 L/min
With KO ¹ below -20°C	154 L/min
Without KO ¹ below -20°C	113 L/min

Tipping time

With KO ¹	11 sec
Without KO ¹	16 sec
With KO ¹ below -20°C	16 sec
Without KO ¹ below -20°C	23 sec
Allowable lowering time	9 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	137	118	99					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. • ² Unsubstantial unloading (sticky load).
- ³ Substantial unloading.

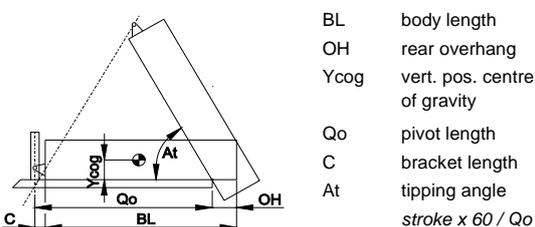
Related documentation

Bracket options: 015BRA10 & 015BRA13

Mounting instructions: CYL-0031

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

Tipping weight

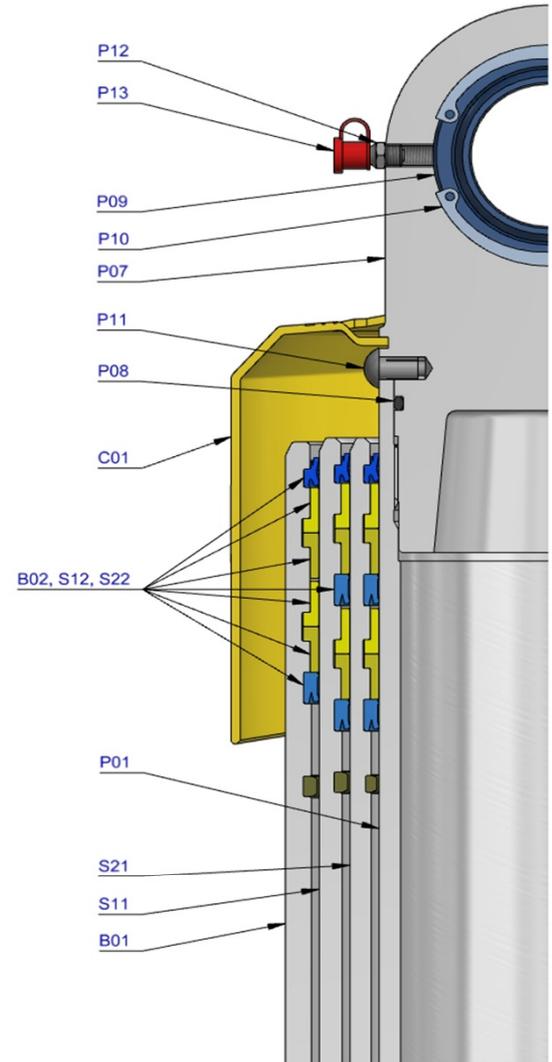


BL [mm]	5000			4850			4700		
OH [mm]	200	400	600	200	400	600	200	400	600
At [°]	47	49	51	48	51	53	50	53	55
Ycog [mm]									
400	51	55	60	52	56	62	53	57	64
700	56	61	68	57	63	71	59	65	75
1000	61	68	79	63	72	84	66	76	

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>

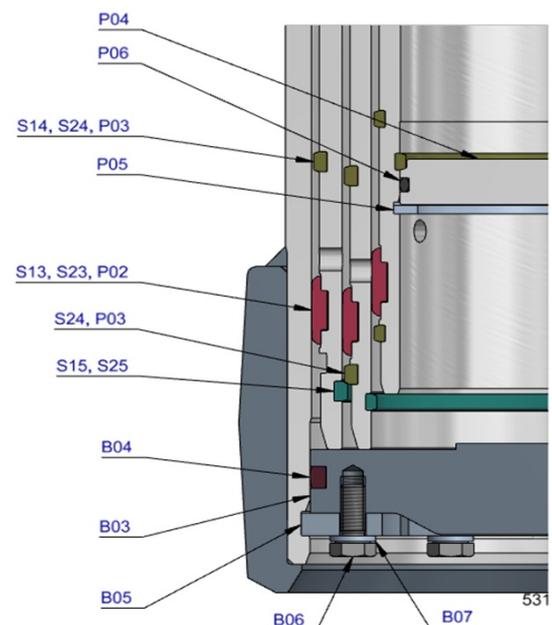
Pos.	Part no.	Description	Qty.
C01	71839110	DUST COVER FE 129-3/137-3	1
P01	70473551	PISTON MN2 S 099-1550-HD-HC	1
P02	70207099 K	SLIDER MN 099 (2 x 1/2) A35	1
P03	70216099 K	OUTER STOPRING MN 099 A22	2
P04	70230099	BOTTOM PLATE PISTON MN 099 MK2 HD	1
P05	01745042 K	CIRCLIP 85 DIN 472 (90.5x3.0)	1
P06	70260215 K	O-RING PISTON BOTTOM 099	1
P07	70235401	PISTON EYE SPH. MN 099 MK2 L=075 GR	1
P08	70260115 K	O-RING 82.14 X 3.53 MM	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	70674510	STAGE MN2 118-1510-HD	1
S22	70202118 K	PACKSET MN 118 TANDEM SEAL	1
S23	70207118 K	SLIDER MN 118 (2 x 1/2) A35	1
S24	70216118 K	OUTER STOPRING MN 118 A22	2
S25	70217118 K	LIFTRING MN 118 A22	1

S11	70675510	STAGE MN2 137-1510-HD	1
S12	70202137 K	PACKSET MN 137 TANDEM SEAL	1
S13	70207137 K	SLIDER MN 137 A35	1
S14	70216137 K	OUTER STOPRING MN 137 A22	1
S15	70217137 K	LIFTRING MN 137 A22	1

B01	70376520	BASE MN2 157-1549-4/4BSAE-190-HD	1
B02	70203157 K	PACKSET MN 157	1
B03	70225355	BOTTOM PLATE MN2 157	1
B04	70270157 K	SEAL BOTTOM PLATE MN 157	1
B05	70220157	LOCKING PLATE MN 157	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

	71907531 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.

For repair instructions see: CYL-0040. Serial no. is located on type plate and near type plate support.