

Specifications

Max. working pressure	250 bar
Weight	216 kg
Working volume	37 L
Total volume	41 L
Max. cyl. load (start tipping)	345 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	10 sec
Without KO ¹	14 sec
With KO ¹ below -20°C	14 sec
Without KO ¹ below -20°C	20 sec
Allowable lowering time	8 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	137	118	99					3380
Stroke* [mm]	1110	1135	1135					

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.

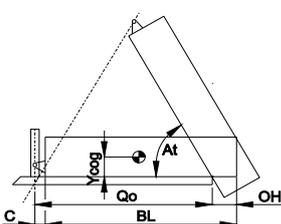
Related documentation

Bracket options: 015BRA10 & 015BRA12

Mounting instructions: CYL-0030

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

	4500	4250	4000
BL [mm]	4500	4250	4000
OH [mm]	200	400	600
At [°]	44	46	49
Ycog [mm]	53	58	65
C	53	58	65
At	59	65	75
	65	74	82

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

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

Alpha series - Front end cylinder with outer cover

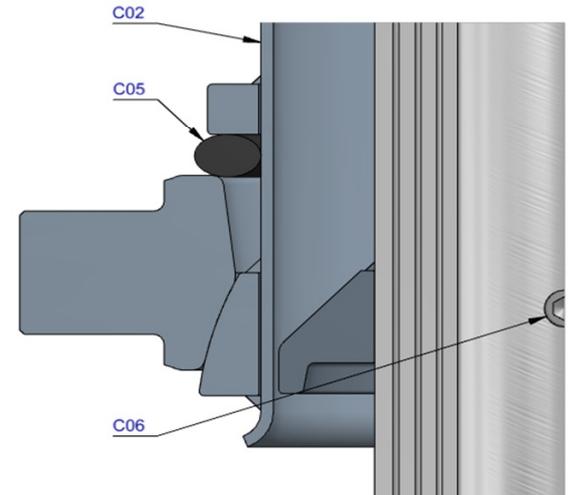
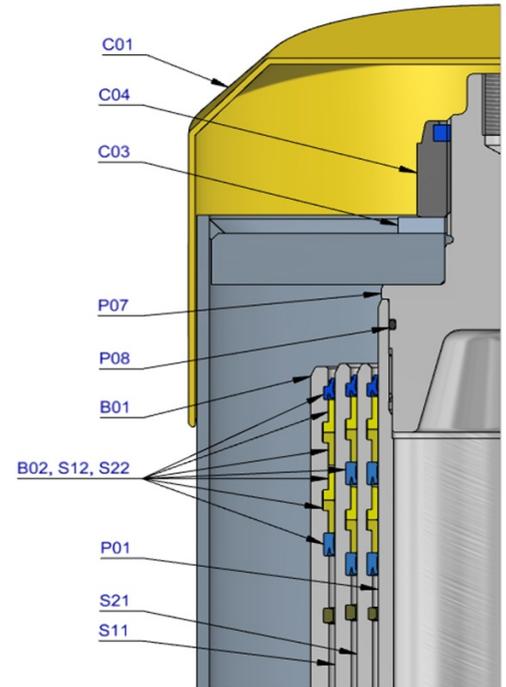


FC A137-3-03380-000-K0343-HD

Item no.

70115180

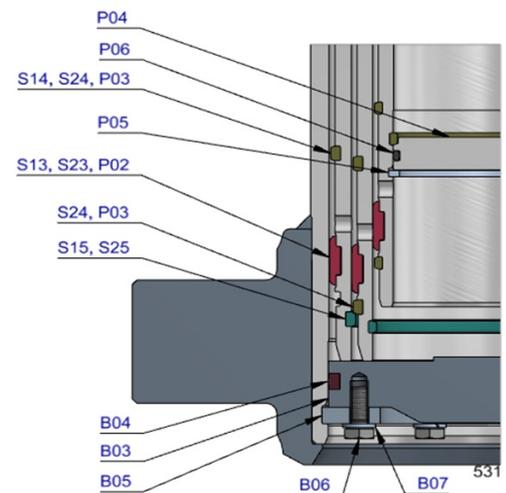
Pos.	Part no.	Description	Qty.
C01	71839040	DUST COVER FC LOW 15-244	1
C02	71736424	COVER 242-1165 PIN60 A340 SPH LOCK	1
C03	01702956 K	WASHER M48 DIN 125B ZP	1
C04	01702907 K	TOPNUT NYLOC M48x3 DIN 985 ZP	1
C05	01791941	O-RING COVER D.242	1
C06	15014550 K	BOLT HSHC M12X30X1.75 Q8.8 DIN 912 ZP	1
P01	70473371	PISTON MN2 S 099-1365-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	70232400	PISTON HEAD MN 099 MK2	1
P08	70260115 K	O-RING 82.14 X 3.53 MM	1



S21	70674370	STAGE MN2 118-1360-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	70675370	STAGE MN2 137-1360-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	70376370R1065	BASE MN2 157-1399-4/4BSAE-190-C242-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.