

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

3D model is available on request

## Specifications

Max. working pressure	250 bar
Weight	183 kg
Working volume	29 L
Total volume	32 L
Max. cyl. load (start tipping)	245 kN

## Max. pump flow

With KO <sup>1</sup>	151 L/min
Without KO <sup>1</sup>	106 L/min
With KO <sup>1</sup> below -20°C	106 L/min
Without KO <sup>1</sup> below -20°C	74 L/min

## Tipping time

With KO <sup>1</sup>	12 sec
Without KO <sup>1</sup>	16 sec
With KO <sup>1</sup> below -20°C	17 sec
Without KO <sup>1</sup> below -20°C	23 sec
Allowable lowering time	12 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	118	99	80					3730
Stroke* [mm]	1230	1250	1250					

## 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.

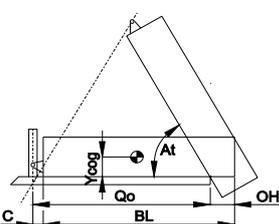
## Related documentation

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

BL [mm]	5000			4750			4500		
OH [mm]	200	400	600	200	400	600	200	400	600
At [°]	44	46	48	47	49	52	50	52	55
Ycog [mm]									
400	34	36	40	35	38	42	36	40	44
700	37	40	45	38	42	48	40	45	53
1000	40	45	51	42	48	57	46	53	

Tipping weight [ton] at maximum pressure of 250 bar for a vertically mounted cylinder and C is 178 mm

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

# Alpha series - Front end cylinder with outer cover

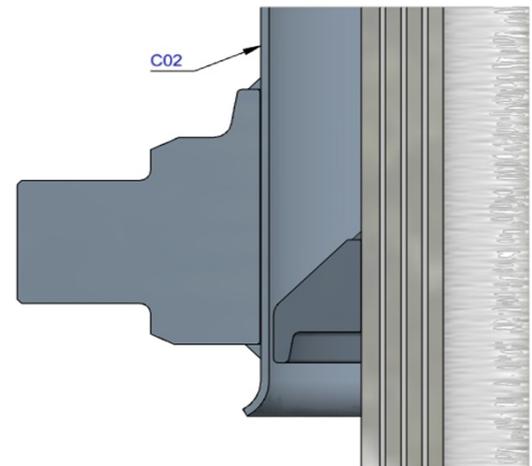
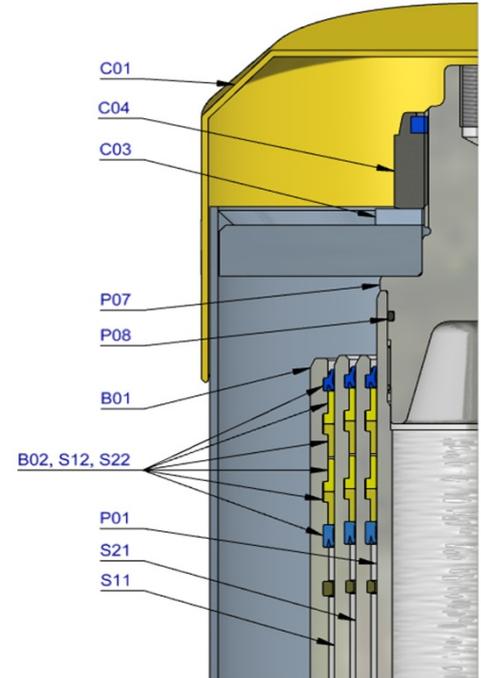


FC A118-3-03730-000-K0343

Item no.

70124200

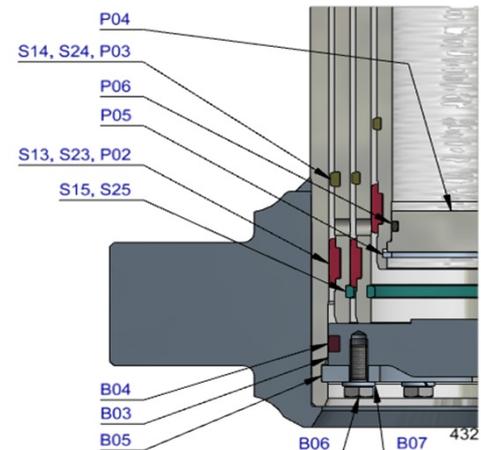
Pos.	Part no.	Description	Qty.
C01	71839030	DUST COVER FC LOW 15-241	1
C02	71709480	COVER 241-1245 PIN60 A340 FIX	1
C03	01702956 K	WASHER M48 DIN 125B ZP	1
C04	01702907 K	TOPNUT NYLOC M48x3 DIN 985 ZP	1
P01	70461441	PISTON MN3 S 080-1445-HC	1
P02	70209300 K	SLIDER MN 080 (2 x 1/2) A22	1
P03	70216080 K	OUTER STOPRING MN 080 A22	1
P04	70224080	BOTTOM PLATE PISTON MN 080	1
P05	01745035 K	CIRCLIP 70 DIN 472 (74.5x2.5)	1
P06	70260210 K	O-RING PISTON BOTTOM 080	1
P07	70232305	PISTON HEAD 080 MN3 SOLID	1
P08	70260110 K	O-RING 63.09 X 3.53 MM	1



S21	70663440	STAGE MN2 099-1440	1
S22	70203099 K	PACKSET MN 099	1
S23	70209310 K	SLIDER MN 099 (2 x 1/2) A22	1
S24	70216099 K	OUTER STOPRING MN 099 A22	1
S25	70217099 K	LIFTRING MN 099 A22	1

S11	70664440	STAGE MN2 118-1440	1
S12	70203118 K	PACKSET MN 118	1
S13	70209320 K	SLIDER MN 118 (2 x 1/2) A22	1
S14	70216118 K	OUTER STOPRING MN 118 A22	1
S15	70217118 K	LIFTRING MN 118 A22	1

B01	70365440R1145	BASE MN2 137-1479-4/4BSAE-190-C242	1
B02	70203137 K	PACKSET MN 137	1
B03	70225350	BOTTOM PLATE MN2 137	1
B04	70270137 K	SEAL BOTTOM PLATE MN 137	1
B05	70220137	LOCKING PLATE MN 137	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

	71907430 K	Consists of all packsets with packset grease and O-rings	
--	------------	--	--

## 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.