

## Specifications

Max. working pressure	190 bar
Weight	289 kg
Working volume	82 L
Total volume	90 L
Max. cyl. load (start tipping)	205 kN
Max. cyl. load (end of stroke) <sup>2</sup>	72 kN
Max. cyl. load (end of stroke) <sup>3</sup>	84 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>	33 sec
Without KO <sup>1</sup>	46 sec
With KO <sup>1</sup> below -20°C	47 sec
Without KO <sup>1</sup> below -20°C	66 sec
Allowable lowering time	33 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	157	137	118	99	80			7130
Stroke* [mm]	1410	1430	1430	1430	1430			

## 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.

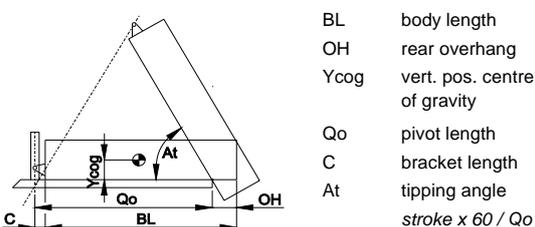
## Related documentation

Bracket options: 015BRA10 & 015BRA12

Mounting instructions: CYL-0030

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

## Tipping weight



BL [mm]	9400			9150			8900		
OH [mm]	200	500	800	200	500	800	200	500	800
At [°]	45	46	48	46	48	50	48	49	51
Ycog [mm]									
600	26	28	30	26	28	30	27	29	31
900	27	29	32	28	30	33	29	31	34
1200	29	31	34	30	32	36	31	34	37

Tipping weight [ton] at maximum pressure of 190 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

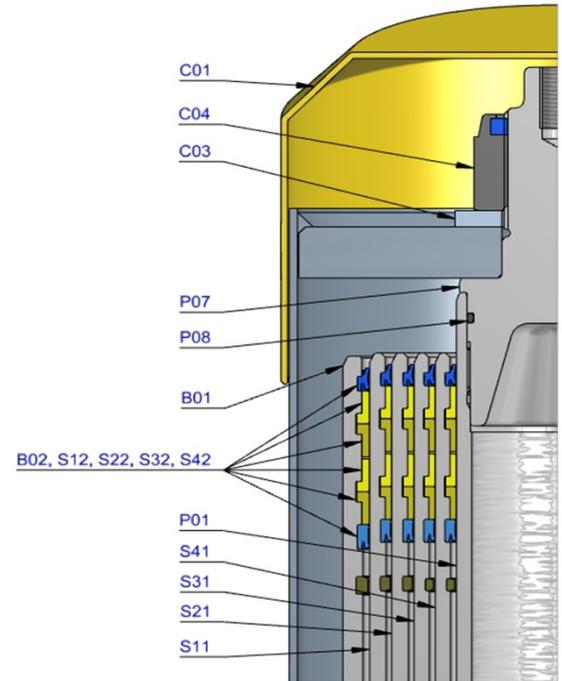


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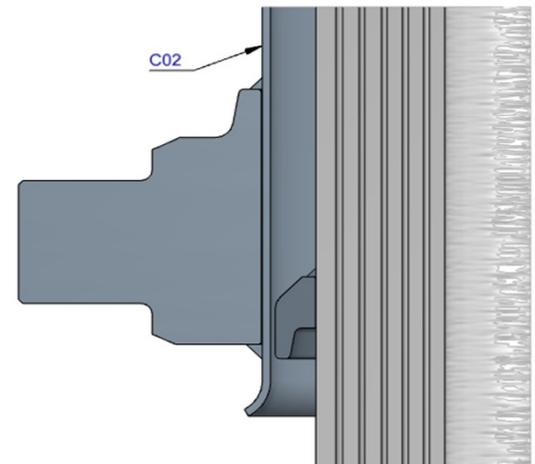
Item no.

70126598

Pos.	Part no.	Description	Qty.
C01	71839030	DUST COVER FC LOW 15-241	1
C02	71709285	COVER 241-0735 PIN60 A340 FIX	1
C03	01702956 K	WASHER M48 DIN 125B ZP	1
C04	01702907 K	TOPNUT NYLOC M48x3 DIN 985 ZP	1
P01	70461641	PISTON MN3 S 080-1645-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



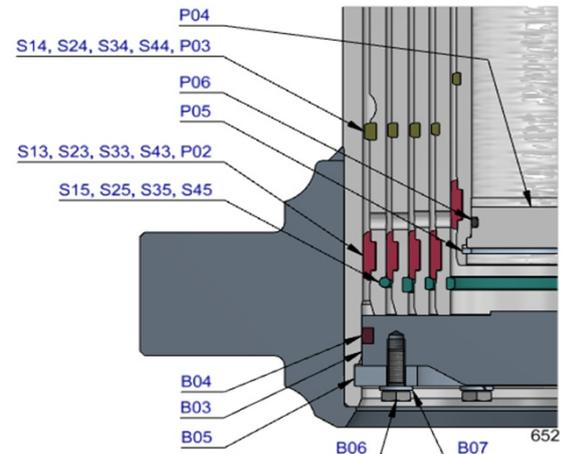
S41	70663640	STAGE MN2 099-1640	1
S42	70203099 K	PACKSET MN 099	1
S43	70209310 K	SLIDER MN 099 (2 x 1/2) A22	1
S44	70216099 K	OUTER STOPRING MN 099 A22	1
S45	70217099 K	LIFTRING MN 099 A22	1



S31	70664640	STAGE MN2 118-1640	1
S32	70203118 K	PACKSET MN 118	1
S33	70209320 K	SLIDER MN 118 (2 x 1/2) A22	1
S34	70216118 K	OUTER STOPRING MN 118 A22	1
S35	70217118 K	LIFTRING MN 118 A22	1

S21	70665640	STAGE MN2 137-1640	1
S22	70203137 K	PACKSET MN 137	1
S23	70207137 K	SLIDER MN 137 A35	1
S24	70216137 K	OUTER STOPRING MN 137 A22	1
S25	70217137 K	LIFTRING MN 137 A22	1

S11	70666640	STAGE MN2 157-1640	1
S12	70203157 K	PACKSET MN 157	1
S13	70207157 K	SLIDER MN 157 A35	1
S14	70216157 K	OUTER STOPRING MN 157 A22	1
S15	70213157 K	LIFTRING MN 157x5 MK2	1



B01	70367654R0635	BASE MN2 179-1683-4/4BSAE-290-C242	1
B02	70203179 K	PACKSET MN 179	1
B03	70225360	BOTTOM PLATE MN2 179	1
B04	70270179 K	SEAL BOTTOM PLATE MN 179	1
B05	70220185	LOCKING PLATE MN2 179	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

	71907650 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.