

Specifications

Max. working pressure	250 bar
Weight	265 kg
Working volume	72 L
Total volume	78 L
Max. cyl. load (start tipping)	345 kN
Max. cyl. load (end of stroke) ²	167 kN
Max. cyl. load (end of stroke) ³	195 kN

Max. pump flow

With KO ¹	190 L/min
Without KO ¹	162 L/min
With KO ¹ below -20°C	133 L/min
Without KO ¹ below -20°C	113 L/min

Tipping time

With KO ¹	23 sec
Without KO ¹	27 sec
With KO ¹ below -20°C	33 sec
Without KO ¹ below -20°C	39 sec
Allowable lowering time	23 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	157	137	118	99				5460
Stroke* [mm]	1350	1370	1370	1370				

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.

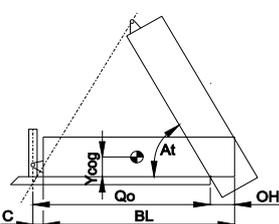
Related documentation

Bracket options: 015BRA10 & 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]	7200			6900			6600		
OH [mm]	200	500	800	200	500	800	200	500	800
At [°]	45	47	49	47	49	52	49	52	55
Ycog [mm]									
600	53	58	64	55	60	67	57	63	71
900	57	63	70	59	66	75	62	70	81
1200	61	68	78	64	73		68	79	

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

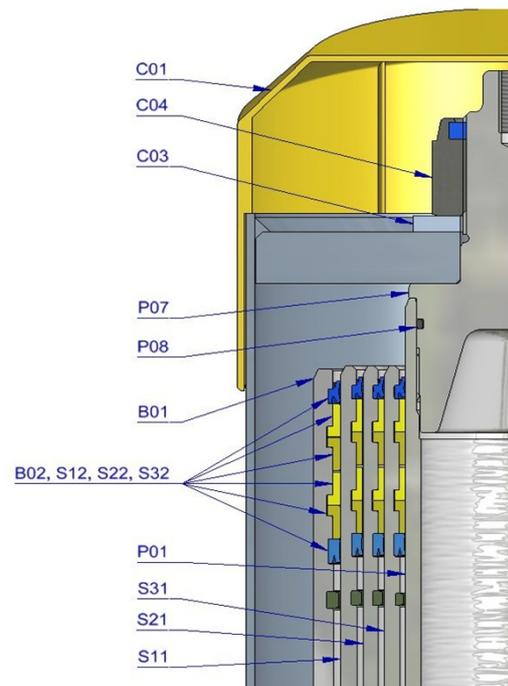


FC A157-4-05460-014-K0900*390

Item no.

70126432

Pos.	Part no.	Description	Qty.
C01	71839030	DUST COVER FC LOW 15-241	1
C02	71709291	COVER 241-0825 PIN60 A340 FIX	1
C03	01702956 K	WASHER M48 DIN 125B ZP	1
C04	01702907 K	TOPNUT NYLOC M48x3 DIN 985 ZP	1
P01	70463581	PISTON MN2 S 099-1585-HC	1
P02	70209310 K	SLIDER MN 099 (2 x 1/2) A22	1
P03	70216099 K	OUTER STOPRING MN 099 A22	1
P04	70224099	BOTTOM PLATE PISTON MN 099	1
P05	01770580 K	CIRCLIP 90 DIN 472 (95.5x3.5)	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

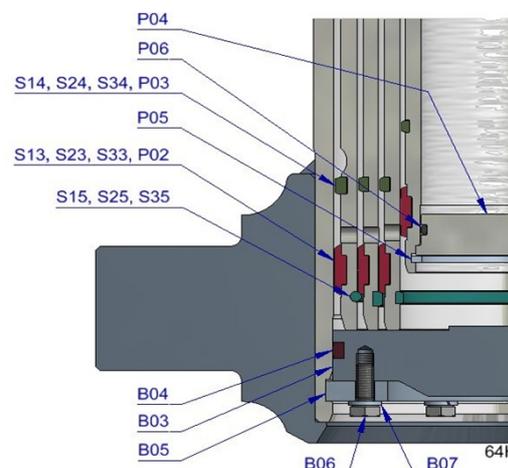
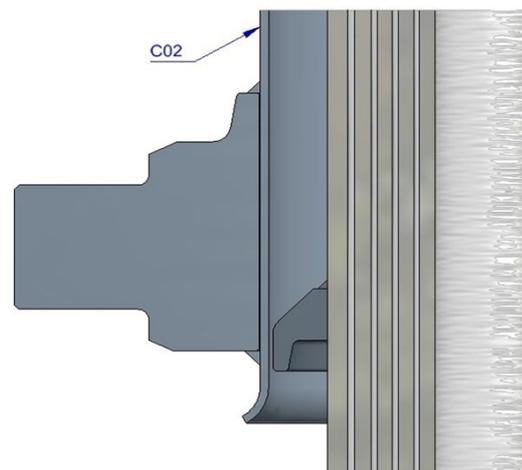


S31	70664580	STAGE MN2 118-1580	1
S32	70203118 K	PACKSET MN 118	1
S33	70209320 K	SLIDER MN 118 (2 x 1/2) A22	1
S34	70216118 K	OUTER STOPRING MN 118 A22	1
S35	70217118 K	LIFTRING MN 118 A22	1

S21	70665580	STAGE MN2 137-1580	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	70666580	STAGE MN2 157-1580	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	70367587R0725	BASE MN2 179-1623-4/4BSAE-390-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

	71907640 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.