

Specifications

Max. working pressure	250 bar
Weight	338 kg
Working volume	106 L
Total volume	115 L
Max. cyl. load (start tipping)	295 kN
Max. cyl. load (end of stroke) ²	154 kN
Max. cyl. load (end of stroke) ³	180 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	33 sec
Without KO ¹	39 sec
With KO ¹ below -20°C	47 sec
Without KO ¹ below -20°C	56 sec
Allowable lowering time	33 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	179	157	137	118	99			6830
Stroke* [mm]	1350	1370	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.

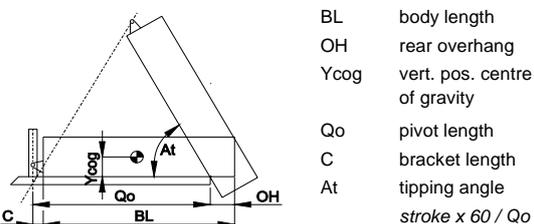
Related documentation

Bracket options: 015BRA10 & 015BRA12

Mounting instructions: CYL-0030

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

Tipping weight



BL [mm]	9100			8550			8000		
OH [mm]	200	500	800	200	500	800	200	500	800
At [°]	44	46	48	47	49	51	51	53	55
Ycog [mm]									
600	53	56	60	55	59	64	58	63	
900	56	60	65	59	64		63		
1200	59	64		63					

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

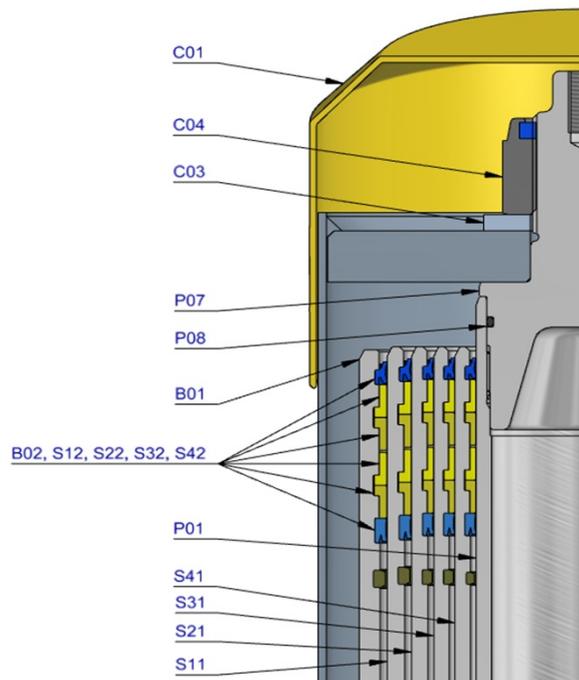


FC A179-5-06830-014-K0550

Item no.

70127562

Pos.	Part no.	Description	Qty.
C01	71839030	DUST COVER FC LOW 15-241	1
C02	71709435	COVER 241-1185 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



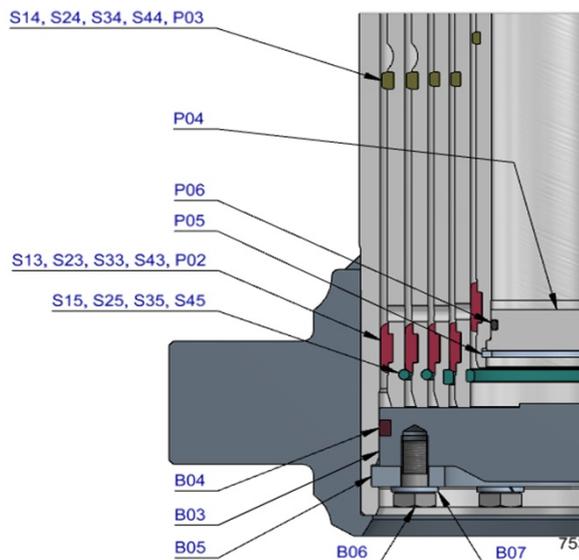
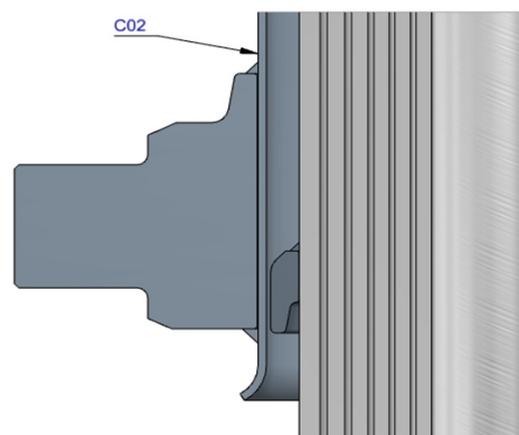
S41	70664580	STAGE MN2 118-1580	1
S42	70203118 K	PACKSET MN 118	1
S43	70209320 K	SLIDER MN 118 (2 x 1/2) A22	1
S44	70216118 K	OUTER STOPRING MN 118 A22	1
S45	70217118 K	LIFTRING MN 118 A22	1

S31	70665580	STAGE MN2 137-1580	1
S32	70203137 K	PACKSET MN 137	1
S33	70207137 K	SLIDER MN 137 A35	1
S34	70216137 K	OUTER STOPRING MN 137 A22	1
S35	70217137 K	LIFTRING MN 137 A22	1

S21	70666580	STAGE MN2 157-1580	1
S22	70203157 K	PACKSET MN 157	1
S23	70207157 K	SLIDER MN 157 A35	1
S24	70216157 K	OUTER STOPRING MN 157 A22	1
S25	70213157 K	LIFTRING MN 157x5 MK2	1

S11	70667580	STAGE MN2 179-1580	1
S12	70203179 K	PACKSET MN 179	1
S13	70207179 K	SLIDER MN 179 A35	1
S14	70216179 K	OUTER STOPRING MN 179 A22	1
S15	70213179 K	LIFTRING MN 179x5 MK2	1

B01	70368584R1085	BASE MN2 202-1631-4/4BSAE-290-C242	1
B02	70203202 K	PACKSET MN 202	1
B03	70225365	BOTTOM PLATE MN2 202	1
B04	70270202 K	SEAL BOTTOM PLATE MN 202	1
B05	70220205	LOCKING PLATE MN2 202	3
B06	01732020 K	BOLT HEX M12X25X1.25 SET 6 PCS	1
B07	01732523 K	WASHER SPRING M12 SET 6 PCS	1



Seal kit complete

	71907750 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.