

Alpha series - Front end cylinder with outer cover



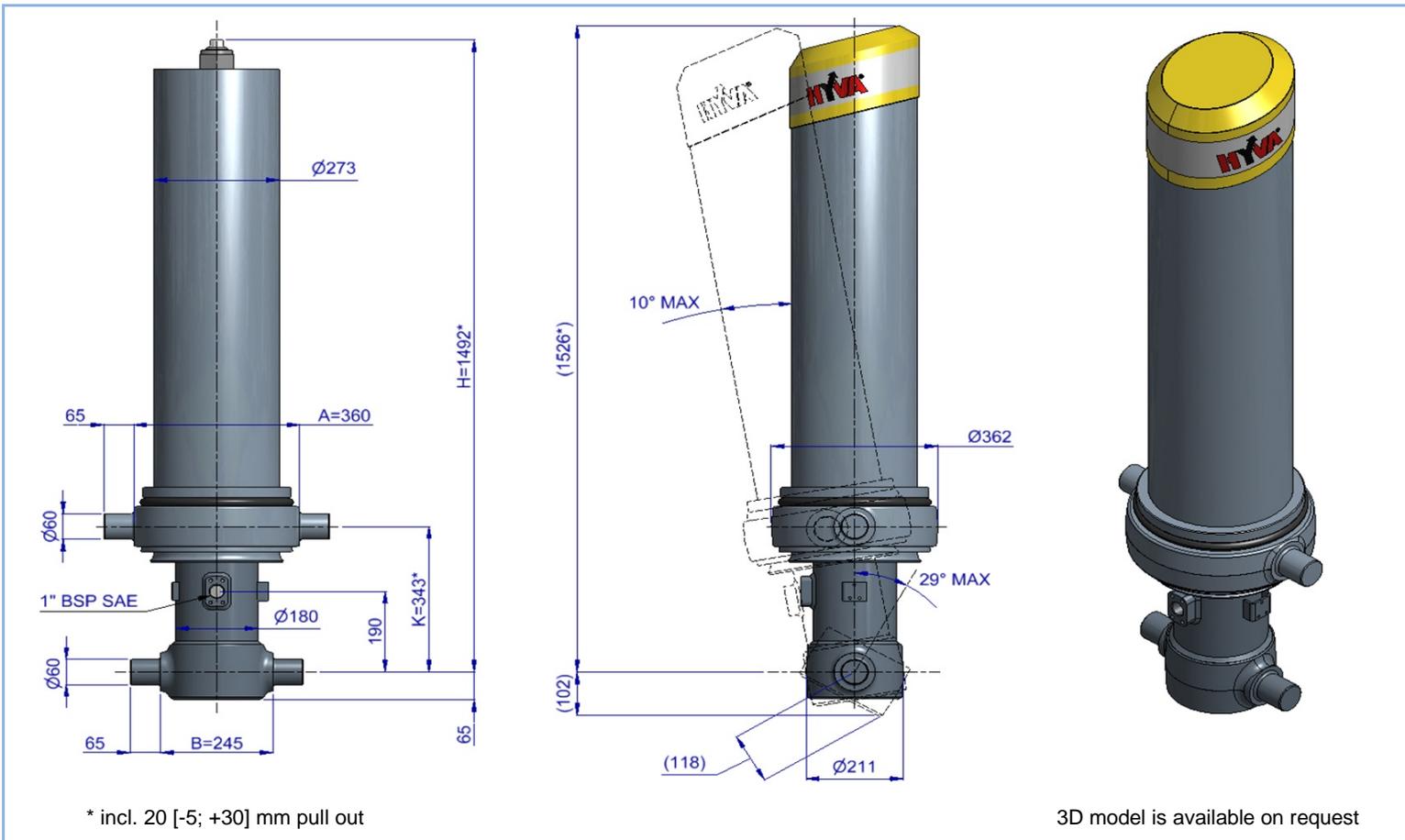
FC A157-4-04505-000-K0343-HD

Item no.

70116440

Tipping weight

55 - 82 ton



Specifications

Max. working pressure	250 bar
Weight	282 kg
Working volume	59 L
Total volume	64 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	16 sec
Without KO ¹	22 sec
With KO ¹ below -20°C	23 sec
Without KO ¹ below -20°C	31 sec
Allowable lowering time	13 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	157	137	118	99				4505
Stroke* [mm]	1105	1130	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.

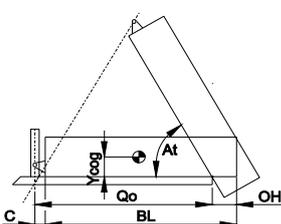
Related documentation

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

BL [mm]	6000			5750			5500		
OH [mm]	200	500	800	200	500	800	200	500	800
At [°]	44	47	49	46	49	52	48	51	55
Ycog [mm]									
600	55	62	71	57	65	76	59	68	82
900	60	69	81	63	73		66	78	
1200	66	77		70			75		

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>

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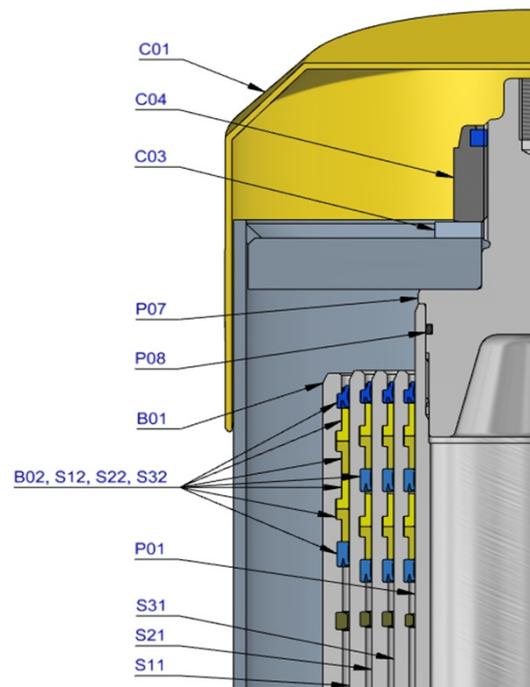


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Pos.	Part no.	Description	Qty.
C01	71839050	DUST COVER FC LOW 15-273	1
C02	71737424	COVER 273-1165 PIN60 A360 SPH LOCK	1
C03	01702956 K	WASHER M48 DIN 125B ZP	1
C04	01702907 K	TOPNUT NYLOC M48x3 DIN 985 ZP	1
C05	01791953	O-RING COVER D.273	1
C06	15014550 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

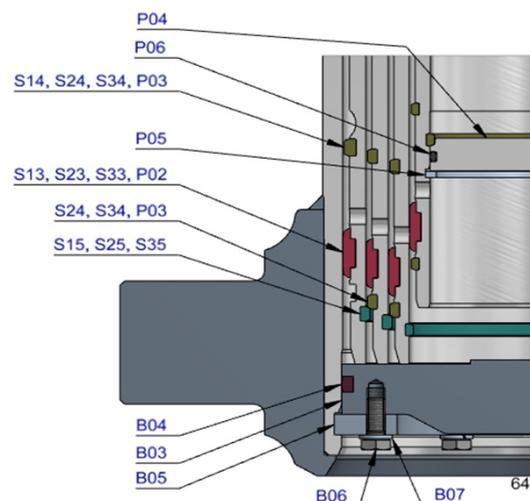
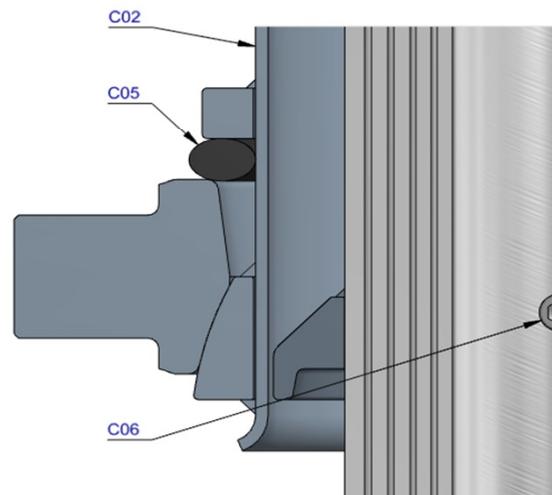


S31	70674370	STAGE MN2 118-1360-HD	1
S32	70202118 K	PACKSET MN 118 TANDEM SEAL	1
S33	70207118 K	SLIDER MN 118 (2 x 1/2) A35	1
S34	70216118 K	OUTER STOPRING MN 118 A22	2
S35	70217118 K	LIFTRING MN 118 A22	1

S21	70675370	STAGE MN2 137-1360-HD	1
S22	70202137 K	PACKSET MN 137 TANDEM SEAL	1
S23	70207137 K	SLIDER MN 137 A35	1
S24	70216137 K	OUTER STOPRING MN 137 A22	2
S25	70217137 K	LIFTRING MN 137 A22	1

S11	70676370	STAGE MN2 157-1360-HD	1
S12	70202157 K	PACKSET MN 157 TANDEM SEAL	1
S13	70207157 K	SLIDER MN 157 A35	1
S14	70216157 K	OUTER STOPRING MN 157 A22	1
S15	70217157 K	LIFTRING MN 157 A22	1

B01	70377371R1065	BASE MN2 179-1403-4/4BSAE-190-C273-HD	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

	71907641 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.