

# Alpha series - Front end cylinder with outer cover



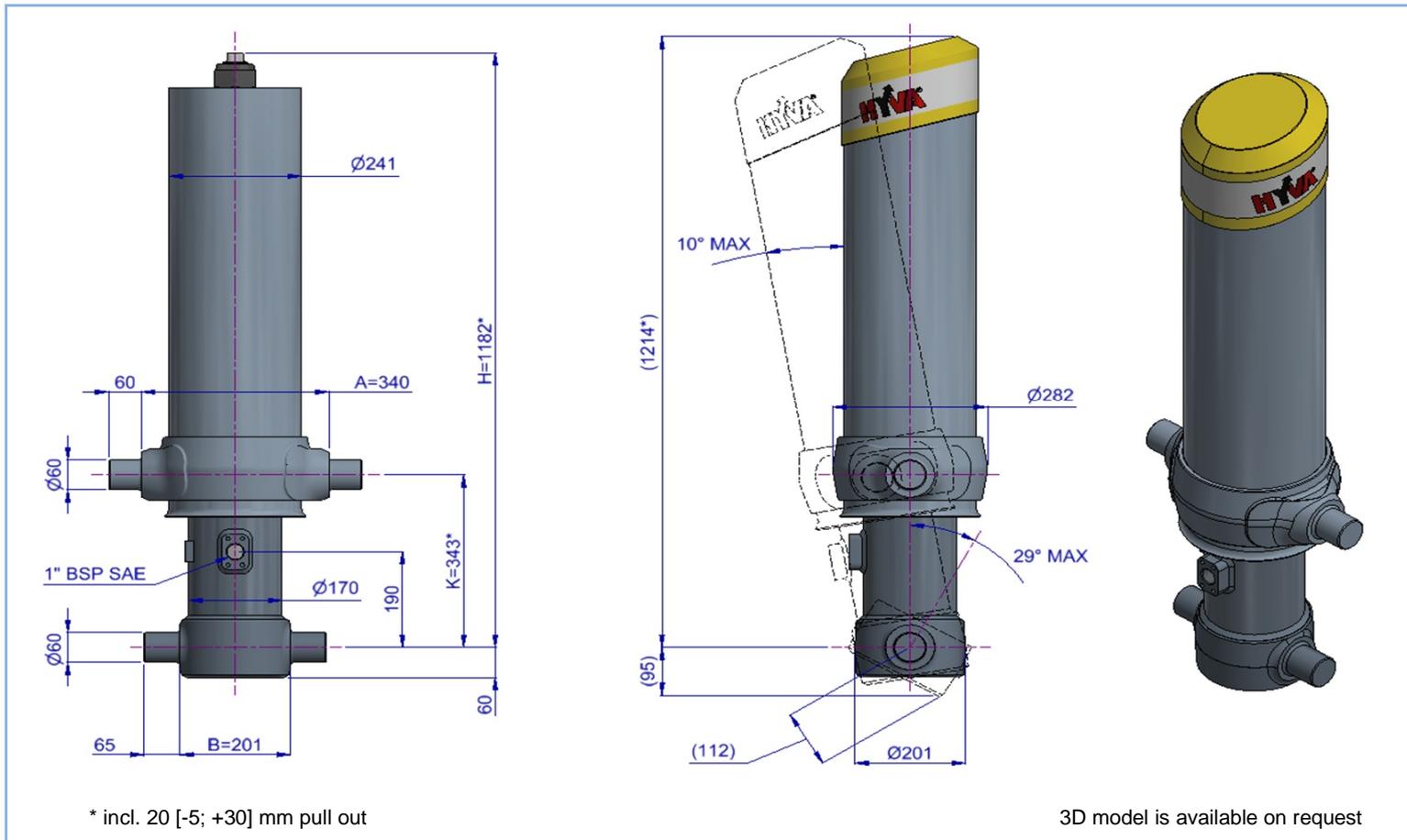
FC A149-4-03420-000-K0343

Item no.

70525160

Tipping weight

47 - 63 ton



## Specifications

Max. working pressure	250 bar
Weight	189 kg
Working volume	40 L
Total volume	43 L
Max. cyl. load (start tipping)	245 kN

## Max. pump flow

With KO <sup>1</sup>	190 L/min
Without KO <sup>1</sup>	137 L/min
With KO <sup>1</sup> below -20°C	133 L/min
Without KO <sup>1</sup> below -20°C	96 L/min

## Tipping time

With KO <sup>1</sup>	13 sec
Without KO <sup>1</sup>	18 sec
With KO <sup>1</sup> below -20°C	19 sec
Without KO <sup>1</sup> below -20°C	26 sec
Allowable lowering time	13 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	149	129	110	91				3420
Stroke* [mm]	840	860	860	860				

## 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

	4500	4300	4100
BL [mm]	4500	4300	4100
OH [mm]	200	200	200
At [°]	45	47	49
Ycog [mm]	47	49	51
C	47	52	58
At	53	59	63
	1000		

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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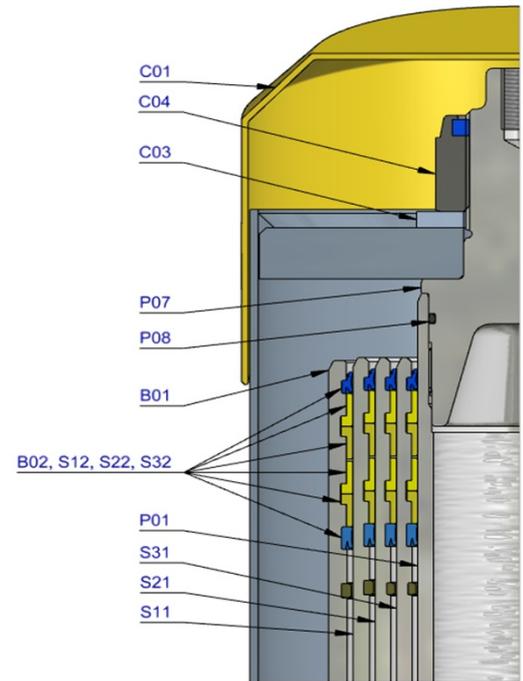


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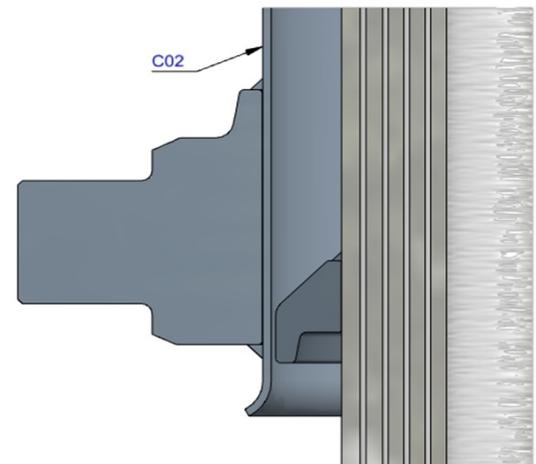
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Pos.	Part no.	Description	Qty.
C01	71839030	DUST COVER FC LOW 15-241	1
C02	71709293	COVER 241-0855 PIN60 A340 FIX	1
C03	01702956 K	WASHER M48 DIN 125B ZP	1
C04	01702907 K	TOPNUT NYLOC M48x3 DIN 985 ZP	1
P01	74402151	PISTON FL2 S 091-1055-HC	1
P02	71853091 K	SLIDER FL 091 (2 X 1/2) A22	1
P03	71851091 K	OUTER STOPRING FL 091 A22	1
P04	71822091	BOTTOM PLATE PISTON FL 091	1
P05	01745012 K	CIRCLIP 82 DIN 472 (87.5x2.5)	1
P06	71870215 K	O-RING PISTON BOTTOM 091	1
P07	71848200	PISTON HEAD FL 091 MK2	1
P08	01226430 K	O-RING 72.62 X 3.53 MM	1

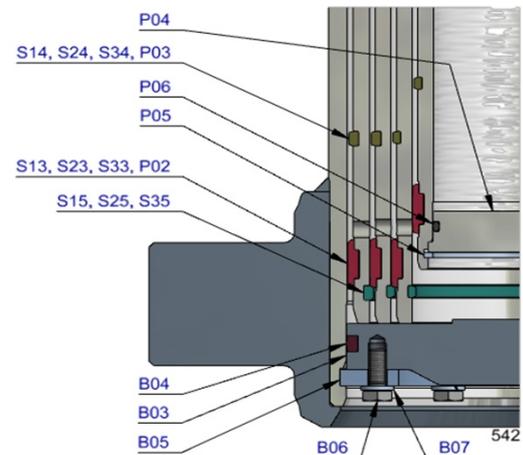


S31	74603150	STAGE FL2 110-1050	1
S32	71802110 K	PACKSET FL 110	1
S33	71853110 K	SLIDER FL 110 (2 X 1/2) A22	1
S34	71851110 K	OUTER STOPRING FL 110 A22	1
S35	71852110 K	LIFTRING FL 110 A22	1



S21	74604150	STAGE FL2 129-1050	1
S22	71802129 K	PACKSET FL 129/HP 129	1
S23	71853129 K	SLIDER FL 129 (2 X 1/2) A22	1
S24	71851129 K	OUTER STOPRING FL 129 A22	1
S25	71852129 K	LIFTRING FL 129 A22	1

S11	74605150	STAGE FL2 149-1050	1
S12	71802149 K	PACKSET FL 149/HP 150	1
S13	71807151 K	SLIDER FL 149 A35	1
S14	71851149 K	OUTER STOPRING FL 149 A22	1
S15	71852149 K	LIFTRING FL 149 A22	1



B01	74506150R0755	BASE FL2 169-1089-4/4BSAE-190-C242	1
B02	71802169 K	PACKSET FL 169	1
B03	71825425	BOTTOM PLATE FL2 169	1
B04	71870035 K	SEAL BOTTOM PLATE FL 169	1
B05	71820169	LOCKING PLATE FL 169	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

	71908540 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.