

Alpha series - Front end cylinder with double eye



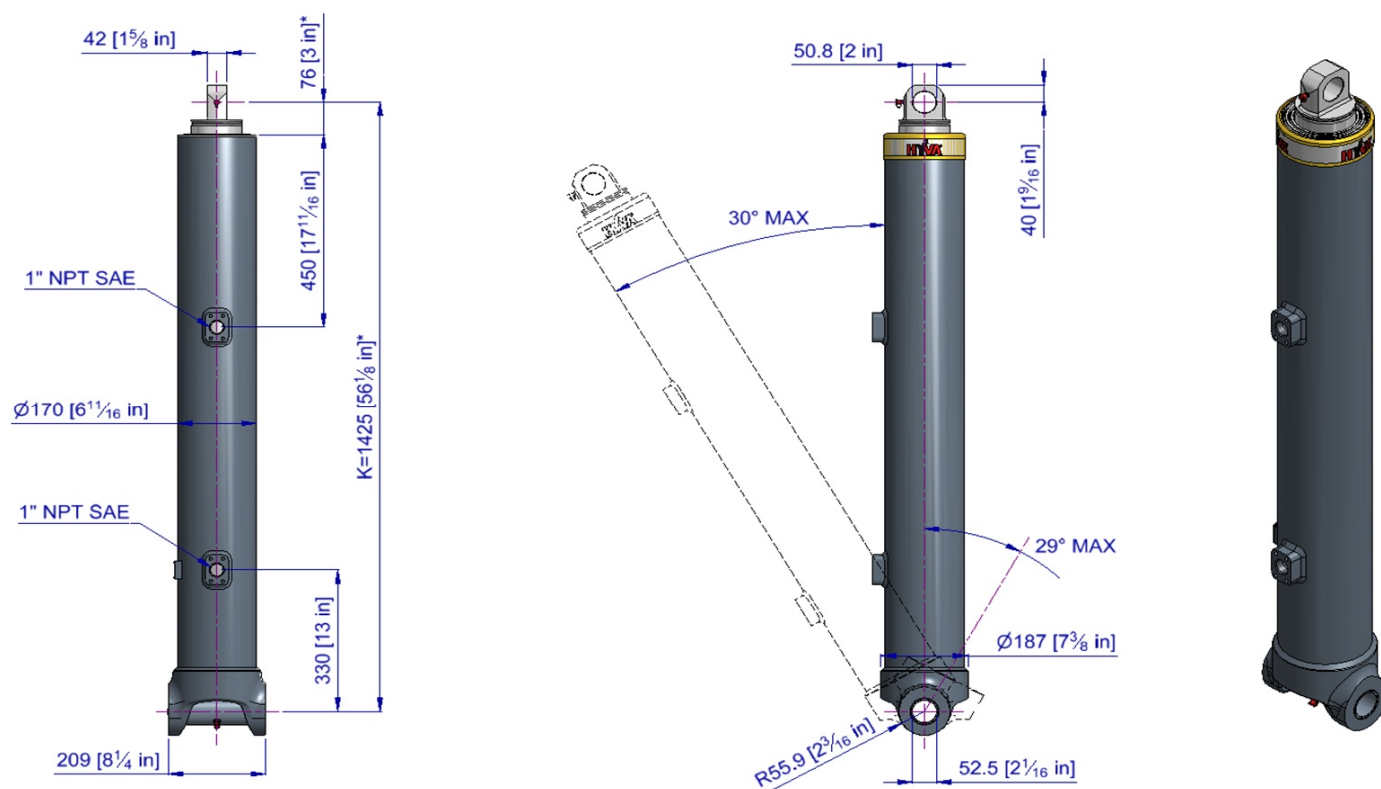
FEE A149-3-03235-248-K1425

Item no.

70575170

Tipping weight

65 - 84 ton



* incl. 20 [-5; +30] mm pull out

3D model is available on request

Specifications

Max. working pressure	250 bar
Weight	143 kg
Working volume	43 L
Total volume	47 L
Max. cyl. load (start tipping)	345 kN

Max. pump flow

With KO ¹	190 L/min
Without KO ¹	170 L/min
With KO ¹ below -20°C	133 L/min
Without KO ¹ below -20°C	119 L/min

Tipping time

With KO ¹	14 sec
Without KO ¹	15 sec
With KO ¹ below -20°C	20 sec
Without KO ¹ below -20°C	21 sec
Allowable lowering time	14 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	149	129	110					3235
Stroke* [mm]	1065	1085	1085					

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.

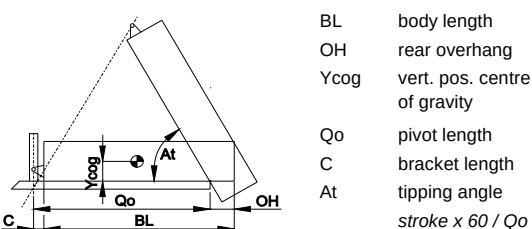
Related documentation

Bracket options: 015BRA17

Mounting instructions: CYL-0032

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

Tipping weight



BL [mm]	4300	4200	4100
OH [mm]	200	200	200
At [°]	46	47	48
Ycog [mm]	65	66	66
Qo [mm]	71	72	74
C [mm]	80	82	84
At [°]	72	73	75
stroke x 60 / Qo	81		

Tipping weight [ton] at maximum pressure of 250 bar for a vertically mounted cylinder and C is 158 mm

For detailed tipping calculations please refer to: <https://tipper.hyva.com>

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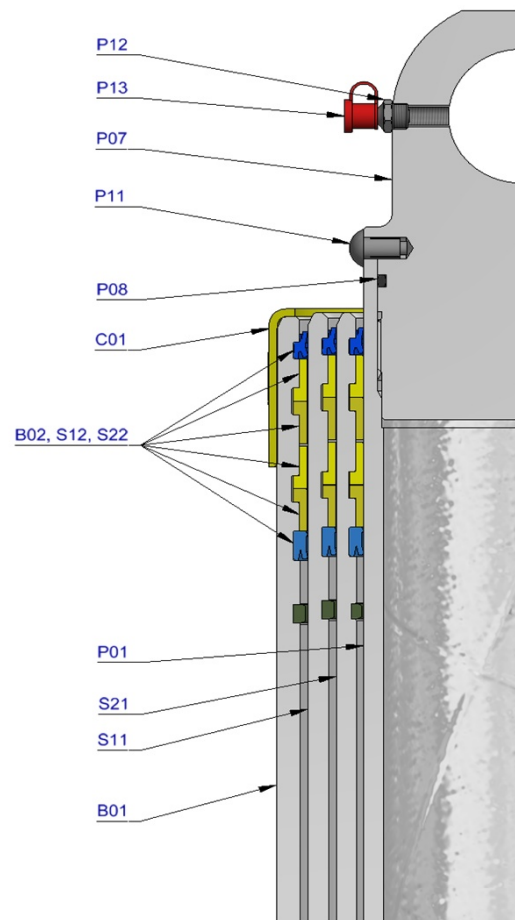


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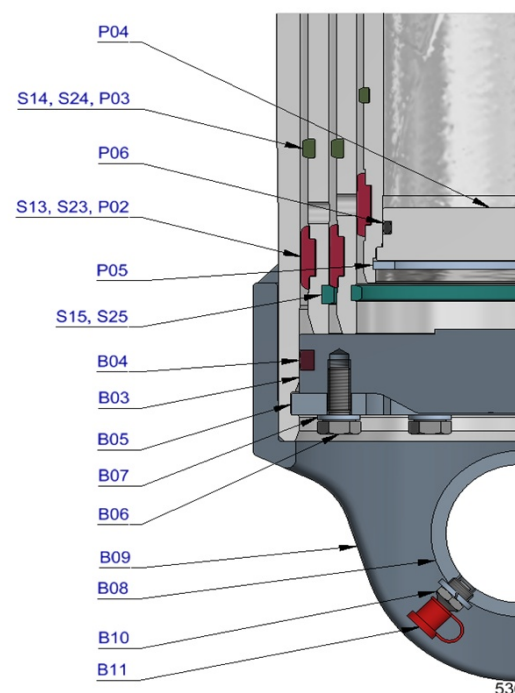
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Pos.	Part no.	Description	Qty.
C01	71839230	DUST RING FL2 149	1
P01	74403301	PISTON FL2 S 110-1280-HC	1
P02	71853110 K	SLIDER FL 110 (2 X 1/2) A22	1
P03	71851110 K	OUTER STOPRING FL 110 A22	1
P04	71822110	BOTTOM PLATE PISTON FL 110	1
P05	01745050 K	CIRCLIP 100 DIN 472 (105.5x3.0)	1
P06	71870220 K	O-RING PISTON BOTTOM 110	1
P07	71847320	PISTON EYE SOLID FL 110 L=050 H=50.8 GR	1
P08	01226538 K	O-RING 91.67 X 3.53 MM NBR	1
P11	71875012	PIN ROUND HEAD GROOVED 8x15 mm	2
P12	56288044 K	GREASE NIPPLE M8x1 DIN 71412	1
P13	01317670 K	GREASER PROTECTION CAP	1



S21	74604300	STAGE FL2 129-1275	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	74605300	STAGE FL2 149-1275	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	74506314	BASE FL2 E 169-1314-4/4NSAE-330/450-O209	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
B08	01793051	EYE TRUNNION TUBE (63-52.5) L=209	1
B09	01746121 K	BOLT LOCKING M8x25 DIN 7991	1
B10	56288044 K	GREASE NIPPLE M8x1 DIN 71412	2
B11	01317670 K	GREASER PROTECTION CAP	2



Seal kit complete

	71908530 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.