

Alpha series - Front end cylinder with outer cover



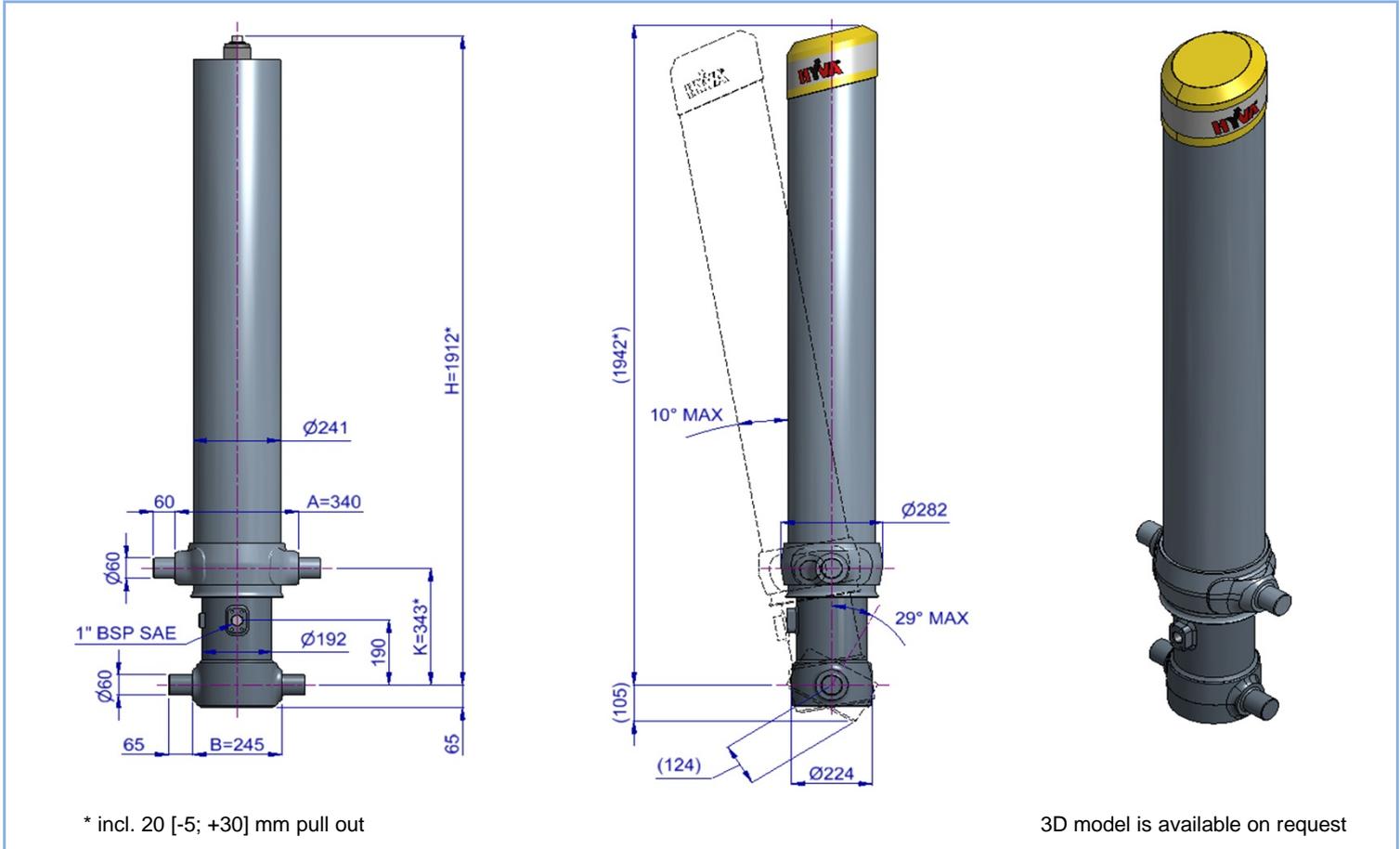
FC A169-5-07630-009-K0343-P85

Item no.

70596680

Tipping weight

38 - 55 ton



Specifications

Max. working pressure	250 bar	Max. pump flow (with KO ¹)	170 L/min	Resulting tipping time (with KO ¹)	37 sec
Weight	365 kg	Max. pump flow (without KO ¹)	119 L/min	Resulting tipping time (without KO ¹)	52 sec
Working volume	104 L			Allowable lowering time	37 sec
Total volume	108 L				
Max. cyl. load (start tipping)	245 kN				
Max. cyl. load (end of stroke)	195 kN				

KO¹: Hyva pneumatic knock off

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	169	149	129	110	85			
Stroke* [mm]	1510	1530	1530	1530	1530			7630

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. • When the cylinder is mounted at an angle, the maximum tipping weight could be reduced. • Maximum backwards angle of rotation during operation is 29 deg.
- Working pressure depends on the application, but must never exceed the maximum working pressure stated. • 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 thickness conforming to the 480 hours neutral salt spray test as per ISO 9227 (ISO10289, rating 9).

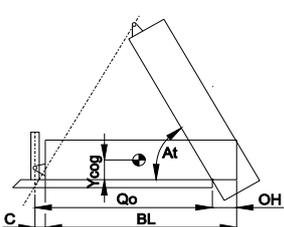
Related documentation

Bracket options: 015BRA10 & 015BRA12

Mounting instructions: CYL-0030

Oil specifications: OIL-0011

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]	10200			9800			9400		
OH [mm]	200	500	800	200	500	800	200	500	800
At [°]	44	45	47	46	47	49	48	50	51
Ycog [mm]									
600	38	40	43	39	41	44	40	43	46
900	40	42	45	41	44	47	43	46	50
1200	42	45	48	44	47	51	46	49	55

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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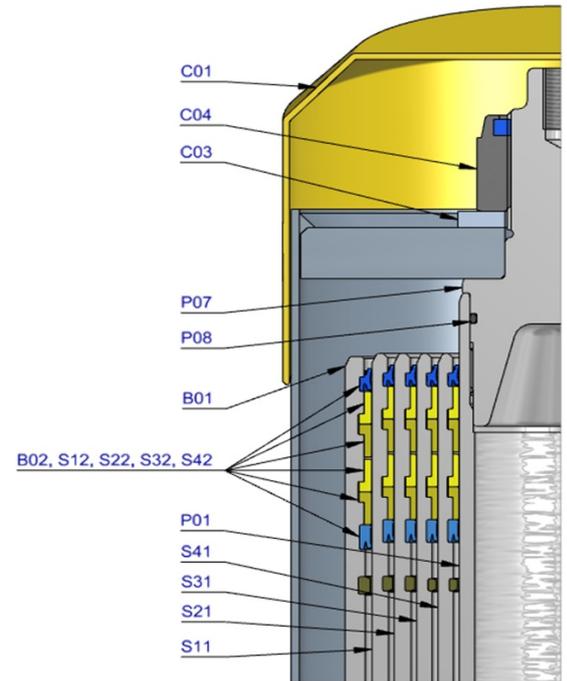


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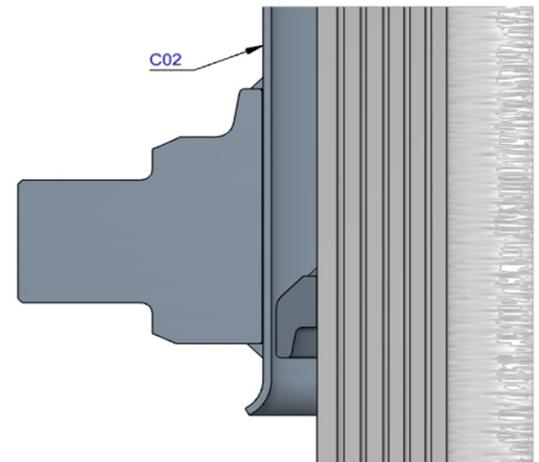
Item no.

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Pos.	Part no.	Description	Qty.
C01	71839030	DUST COVER FC LOW 15-241	1
C02	71709739	COVER 241-1585 PIN60 A340 FIX	1
C03	01702956 K	WASHER M48 DIN 125B ZP	1
C04	01702907 K	TOPNUT NYLOC M48x3 DIN 985 ZP	1
P01	74432720	PISTON FL2 S 085-1785-HC	1
P02	71853085 K	SLIDER FL 085 (2 X 1/2) A22	1
P03	71851085 K	OUTER STOPRING FL 085 A22	1
P04	75322085	BOTTOM PLATE PISTON 085	1
P05	01770560 K	CIRCLIP 75 DIN 472 (79.5x3.0)	1
P06	75372085 K	O-RING PISTON BOTTOM HP 085	1
P07	71848150	PISTON HEAD FL 085 MK2	1
P08	01225807 K	O-RING 66.27 X 3.53 MM	1



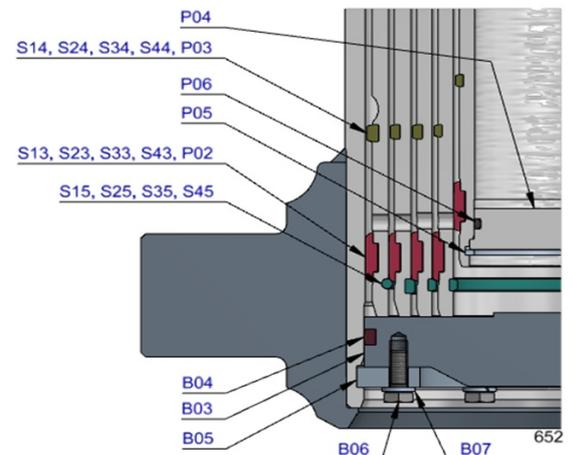
S41	74633720	STAGE FL2 110-1780 ID90	1
S42	75302110 K	PACKSET HP 110	1
S43	71853110 K	SLIDER FL 110 (2 X 1/2) A22	1
S44	71851110 K	OUTER STOPRING FL 110 A22	1
S45	71850111 K	INNER STOPRING/LIFTRING FL 110 ID 90 A22	1



S31	74604720	STAGE FL2 129-1780	1
S32	71802129 K	PACKSET FL 129/HP 129	1
S33	71853129 K	SLIDER FL 129 (2 X 1/2) A22	1
S34	71851129 K	OUTER STOPRING FL 129 A22	1
S35	71852129 K	LIFTRING FL 129 A22	1

S21	74605720	STAGE FL2 149-1780	1
S22	71802149 K	PACKSET FL 149/HP 150	1
S23	71807151 K	SLIDER FL 149 A35	1
S24	71851149 K	OUTER STOPRING FL 149 A22	1
S25	71852149 K	LIFTRING FL 149 A22	1

S11	74606720	STAGE FL2 169-1780	1
S12	71802169 K	PACKSET FL 169	1
S13	71807171 K	SLIDER FL 169 A35	1
S14	71851169 K	OUTER STOPRING FL 169 A22	1
S15	71813169 K	LIFTRING FL 169x5	1



B01	74507720R1485	BASE FL2 191-1823-4/4BSAE-190-C242	1
B02	71802191 K	PACKSET FL 191	1
B03	71825430	BOTTOM PLATE FL2 191	1
B04	71870040 K	SEAL BOTTOM PLATE FL 191	1
B05	71820195	LOCKING PLATE FL2 191	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

	71908652 K	Consists of all packsets with packset grease and O-rings	
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Notes

The inner, outer stoprings and liftrings are pre-mounted in the grooves on spare stages and pistons. Therefore, when ordering new tubes, it is not required to order stoprings separately.

For repair instructions see: CYL-0040. Serial no. is located on type plate and near type plate support.