

Alpha series - Front end cylinder with single eye



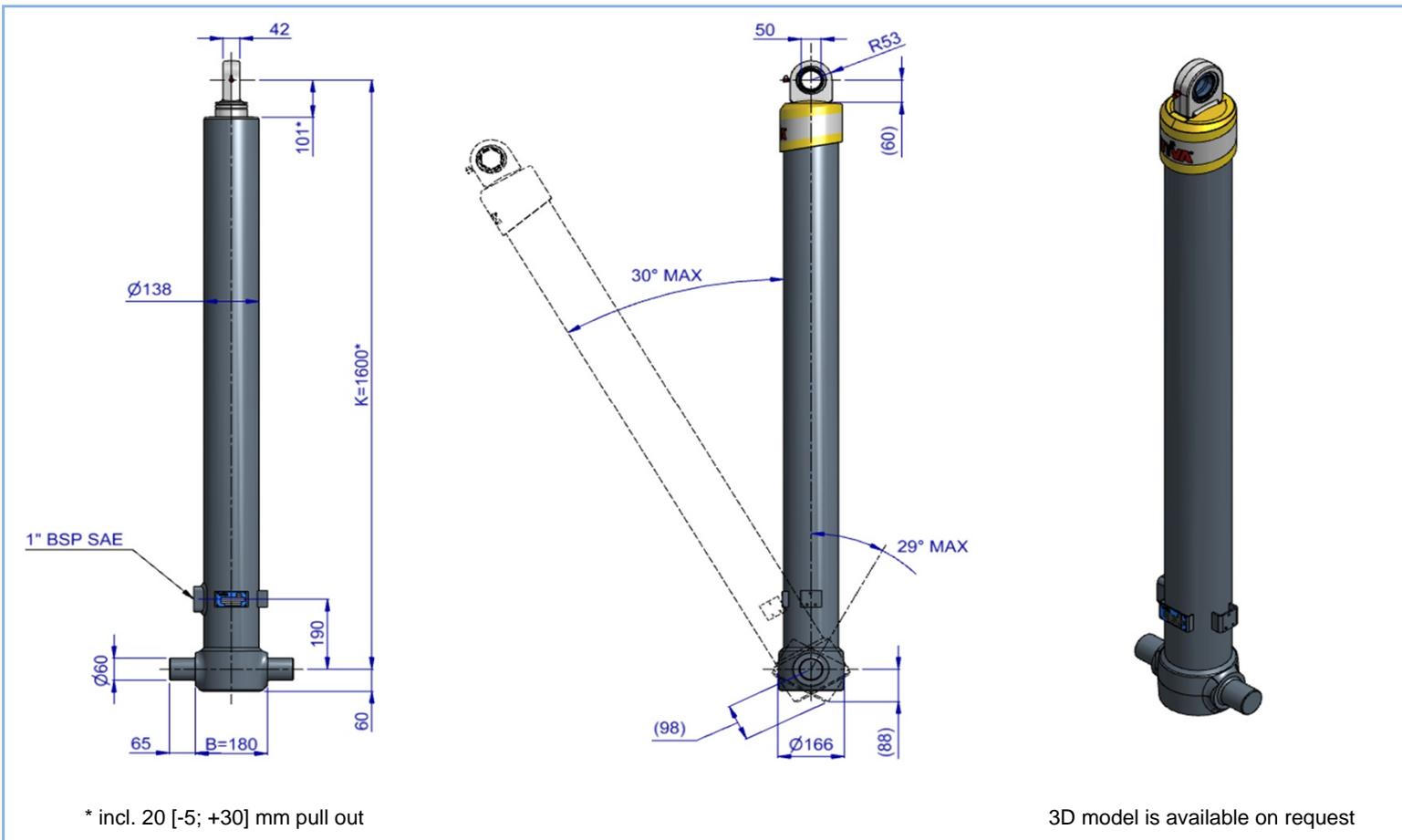
FE A118-3-03845-071-K1600-HD

Item no.

70134224

Tipping weight

33 - 59 ton



Specifications

Max. working pressure	250 bar	Max. pump flow (with KO)	151 L/min	Resulting tipping time (with KO)	12 sec
Weight	125 kg	Max. pump flow (without KO)	106 L/min	Resulting tipping time (without KO)	17 sec
Working volume	30 L			Allowable lowering time	10 sec
Total volume	33 L				
Max. cyl. load (start tipping)	245 kN				

KO: Hyva pneumatic knock off

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	118	99	80					
Stroke* [mm]	1265	1290	1290					3845

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.
- Maximum duration of extension is 0.5 hours (excluding hard chromed stages).
- Cylinder is painted black (RAL9005) with a thickness conforming to the 480 hours neutral salt spray test as per ISO 9227 (ISO 10289, rating 9).

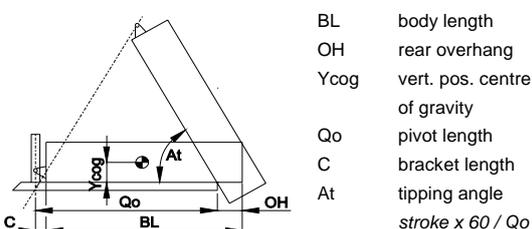
Related documentation

Bracket options: 015BRA10 & 015BRA13

Mounting instructions: CYL-0031

Oil specifications: OIL-0011

Tipping weight

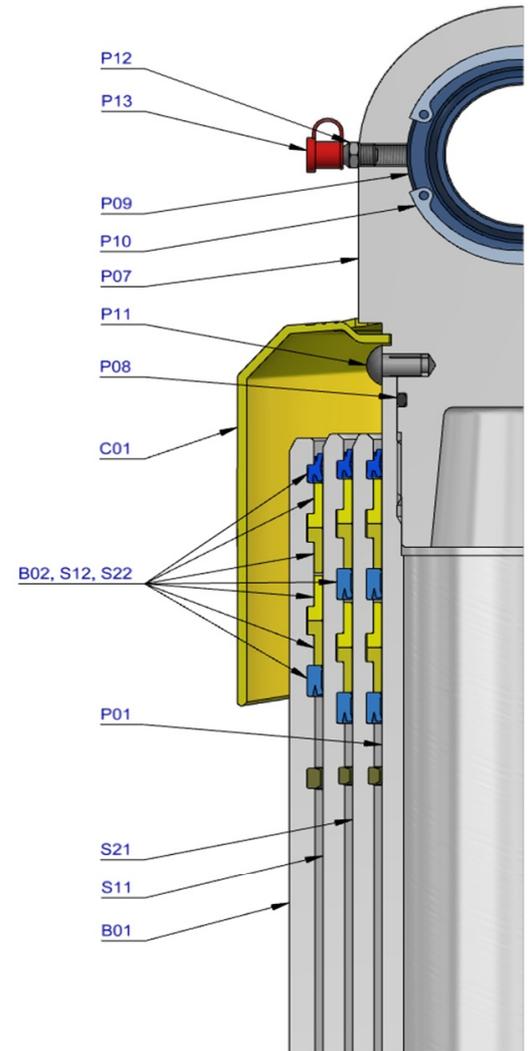


	BL	5100			4900			4700		
OH	200	400	600	200	400	600	200	400	600	
At	46	48	50	48	50	53	50	53	56	
Ycog										
Qo	400	33	35	39	34	36	40	34	38	42
C	700	36	39	43	37	41	46	38	43	49
At	1000	39	44	50	41	46	54	43	50	59

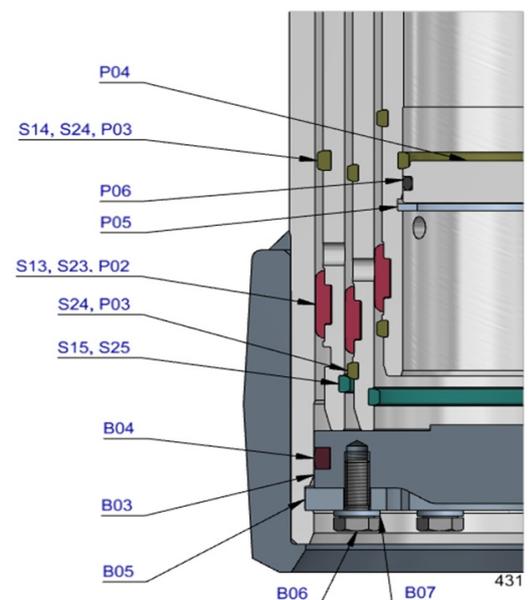
Tipping weight at maximum pressure of 250 bar for a vertically mounted cylinder and C is 158 mm

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

Pos.	Part no.	Description	Qty.
C01	71839100	DUST COVER FE 110-3/118-3	1
P01	70472511	PISTON MN2 S 080-1515-HD-HC	1
P02	70207080 K	SLIDER MN 080 (2 x 1/2) A35	1
P03	70216080 K	OUTER STOPRING MN 080 A22	2
P04	70230080	BOTTOM PLATE PISTON MN 080 MK2 HD	1
P05	01745030 K	CIRCLIP 67 DIN 472 (71.5x2.5)	1
P06	70260210 K	O-RING PISTON BOTTOM 080	1
P07	70235301	PISTON EYE SPH. MN 080 MK2 L=075 GR	1
P08	70260110 K	O-RING 63.09 X 3.53 MM	1
P09	01770085 K	SPHERICAL BEARING D.50 DO GREASED	1
P10	01770560 K	CIRCLIP 75 GE 50 DO DIN 472	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	70673510	STAGE MN2 099-1510-HD	1
S22	70202099 K	PACKSET MN 099 TANDEM SEAL	1
S23	70207099 K	SLIDER MN 099 (2 x 1/2) A35	1
S24	70216099 K	OUTER STOPRING MN 099 A22	2
S25	70217099 K	LIFTRING MN 099 A22	1
S11	70674510	STAGE MN2 118-1510-HD	1
S12	70202118 K	PACKSET MN 118 TANDEM SEAL	1
S13	70207118 K	SLIDER MN 118 (2 x 1/2) A35	1
S14	70216118 K	OUTER STOPRING MN 118 A22	1
S15	70217118 K	LIFTRING MN 118 A22	1
B01	70375512	BASE MN2 137-1549-4/4BSAE-190-90-HD	1
B02	70203137 K	PACKSET MN 137	1
B03	70225350	BOTTOM PLATE MN2 137	1
B04	70270137 K	SEAL BOTTOM PLATE MN 137	1
B05	70220137	LOCKING PLATE MN 137	3
B06	01732055 K	BOLT HEX M8X20X1.25 SET 6PCS	1
B07	01732559 K	WASHER SPRING M8 SET 6PCS	1



Seal kit complete

	71907431 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-0041. Serial no. is located on type plate and below type plate support.