

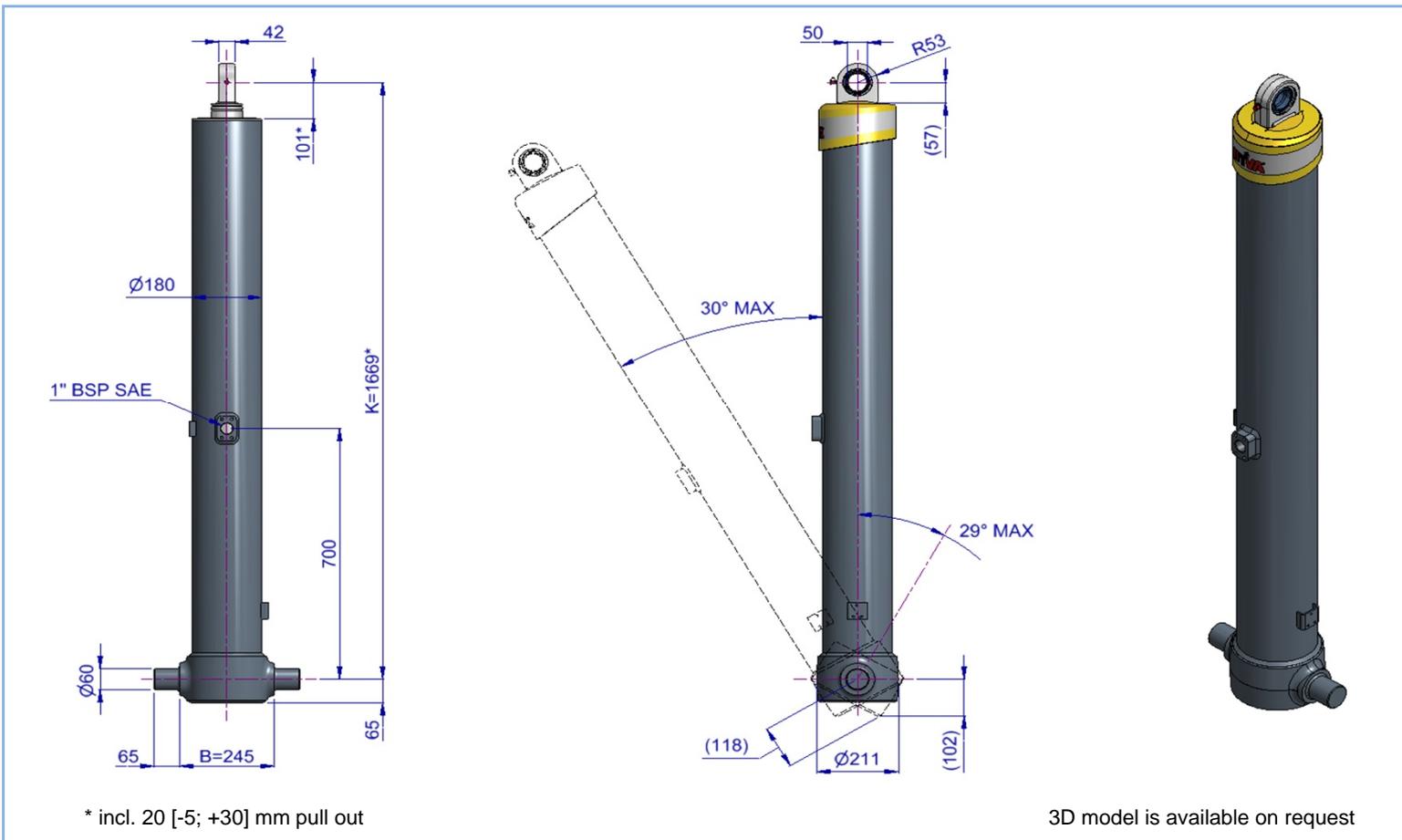
# Alpha series - Front end cylinder with single eye



FE A157-5-06750-011-K1669-HD

Item no.  
Tipping weight

70136550  
20 - 33 ton



## Specifications

Max. working pressure	150 bar	Max. pump flow (with KO)	151 L/min	Resulting tipping time (with KO)	31 sec
Weight	233 kg	Max. pump flow (without KO)	106 L/min	Resulting tipping time (without KO)	44 sec
Working volume	78 L			Allowable lowering time	25 sec
Total volume	85 L				
Max. cyl. load (start tipping)	205 kN				
Max. cyl. load (end of stroke)	103 kN				

KO: Hyva pneumatic knock off

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	157	137	118	99	80			
Stroke* [mm]	1325	1350	1355	1360	1360			6750

## 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).

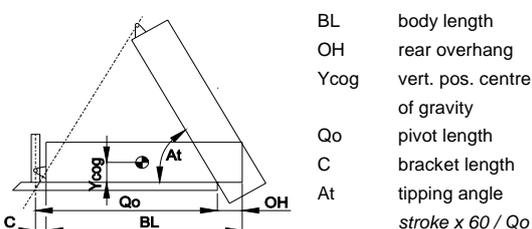
## Related documentation

Bracket options: 015BRA10 & 015BRA13

Mounting instructions: CYL-0031

Oil specifications: OIL-0011

## Tipping weight



	BL	8900			8500			8100		
		200	500	800	200	500	800	200	500	800
At	46	47	49	48	50	52	51	53	55	
Ycog										
Qo	600	20	22	23	21	23	25	22	24	26
C	900	22	23	25	23	24	27	24	26	29
At	1200	23	25	28	24	27	30	26	29	33

Tipping weight [ton] at maximum pressure of 150 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	71839122	DUST COVER FE 157-5	1
P01	70472581	PISTON MN2 S 080-1585-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

S41	70673580	STAGE MN2 099-1580-HD	1
S42	70202099 K	PACKSET MN 099 TANDEM SEAL	1
S43	70207099 K	SLIDER MN 099 (2 x 1/2) A35	1
S44	70216099 K	OUTER STOPRING MN 099 A22	2
S45	70217099 K	LIFTRING MN 099 A22	1

S31	70674580	STAGE MN2 118-1580-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

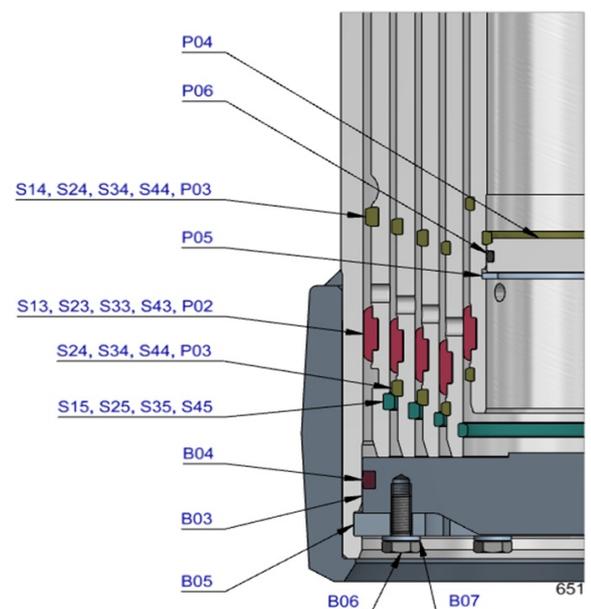
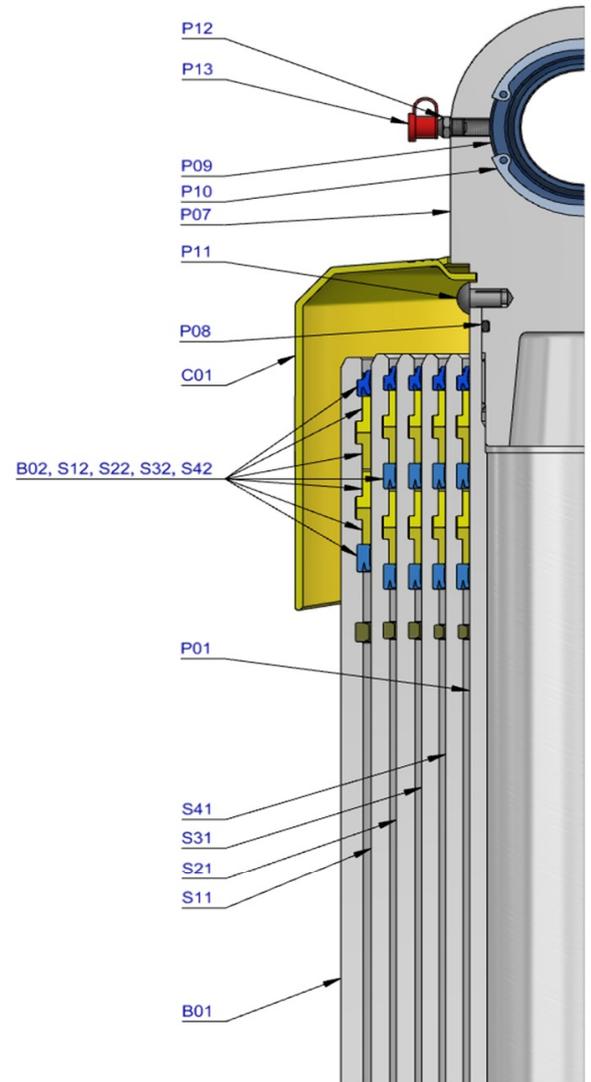
S21	70675580	STAGE MN2 137-1580-HD	1
S22	70202137 K	PACKSET MN 137 TANDEM SEAL	1
S23	70207137 K	SLIDER MN 137 A35	1
S24	70216137 K	OUTER STOPRING MN 137 A22	2
S25	70217137 K	LIFTRING MN 137 A22	1

S11	70676580	STAGE MN2 157-1580-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	70377588	BASE MN2 179-1623-4/4BSAE-700-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

	71907651 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.