

Alpha series - Front end cylinder with single eye



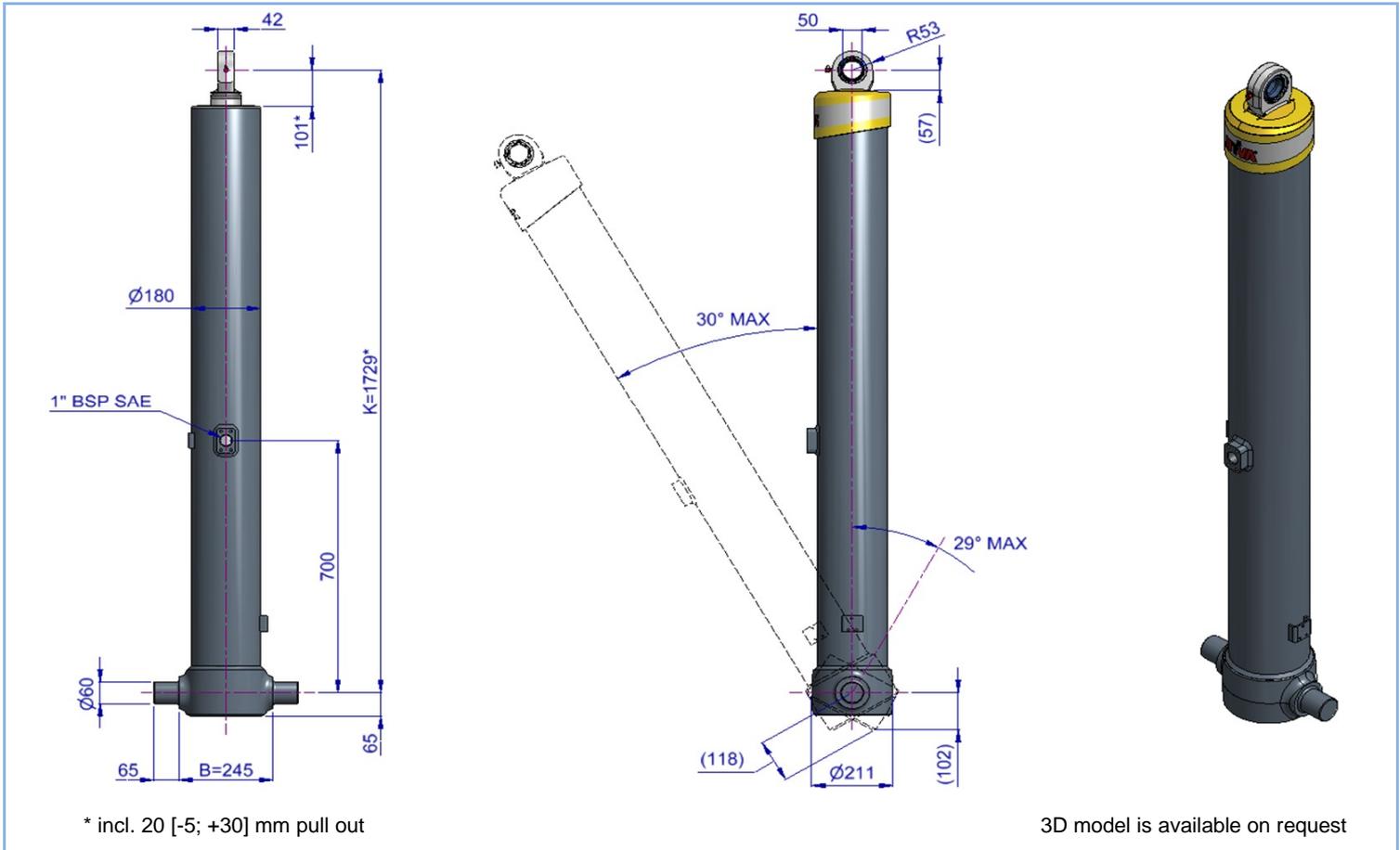
FE A157-5-07050-011-K1729-HD

Item no.

70136590

Tipping weight

20 - 29 ton



Specifications

Max. working pressure	150 bar	Max. pump flow (with KO ¹)	151 L/min	Resulting tipping time (with KO ¹)	32 sec
Weight	240 kg	Max. pump flow (without KO ¹)	106 L/min	Resulting tipping time (without KO ¹)	46 sec
Working volume	81 L			Allowable lowering time	26 sec
Total volume	88 L				
Max. cyl. load (start tipping)	205 kN				
Max. cyl. load (end of stroke)	94 kN				

KO¹: Hyva pneumatic knock off

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	157	137	118	99	80			7050
Stroke* [mm]	1385	1410	1415	1420	1420			

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).

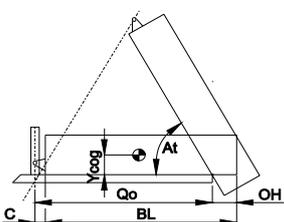
Related documentation

Bracket options: 015BRA10 & 015BRA13

Mounting instructions: CYL-0031

Oil specifications: OIL-0011

Tipping weight



BL [mm]	9300			9100			8900		
OH [mm]	200	500	800	200	500	800	200	500	800
At [°]	45	47	49	47	48	50	48	50	52
Ycog [mm]									
600	20	22	23	21	22	24	21	22	24
900	21	23	25	22	23	26	22	24	26
1200	23	25	27	23	25	28	24	26	29

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 149-5/157-5	1
P01	70472641	PISTON MN2 S 080-1645-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	70673640	STAGE MN2 099-1640-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	70674640	STAGE MN2 118-1640-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

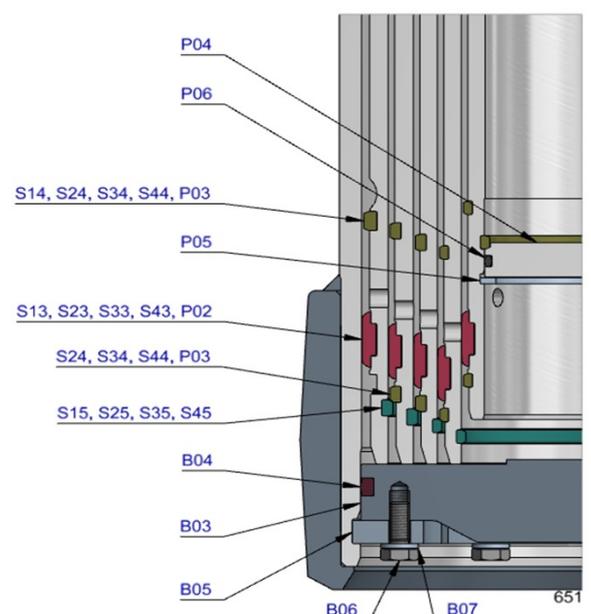
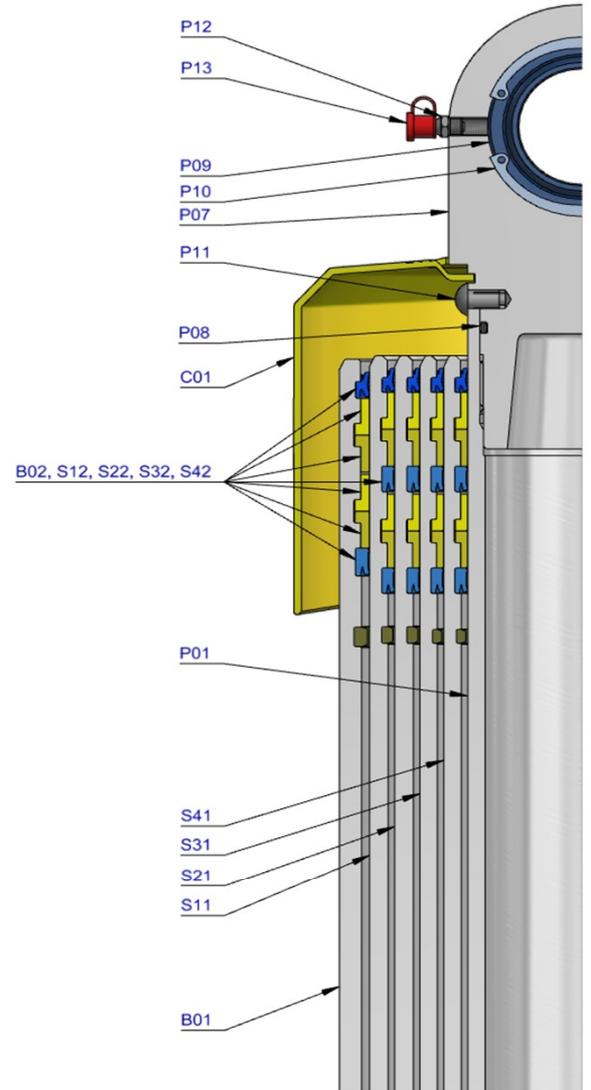
S21	70675640	STAGE MN2 137-1640-HD	1
S22	70202137 K	PACKSET MN 137 TANDEM SEAL	1
S23	70207137 K	SLIDER MN 137 A35	1
S24	70216137 K	OUTER STOPRING MN 137 A22	2
S25	70217137 K	LIFTRING MN 137 A22	1

S11	70676640	STAGE MN2 157-1640-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	70377658	BASE MN2 179-1683-4/4BSAE-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.