

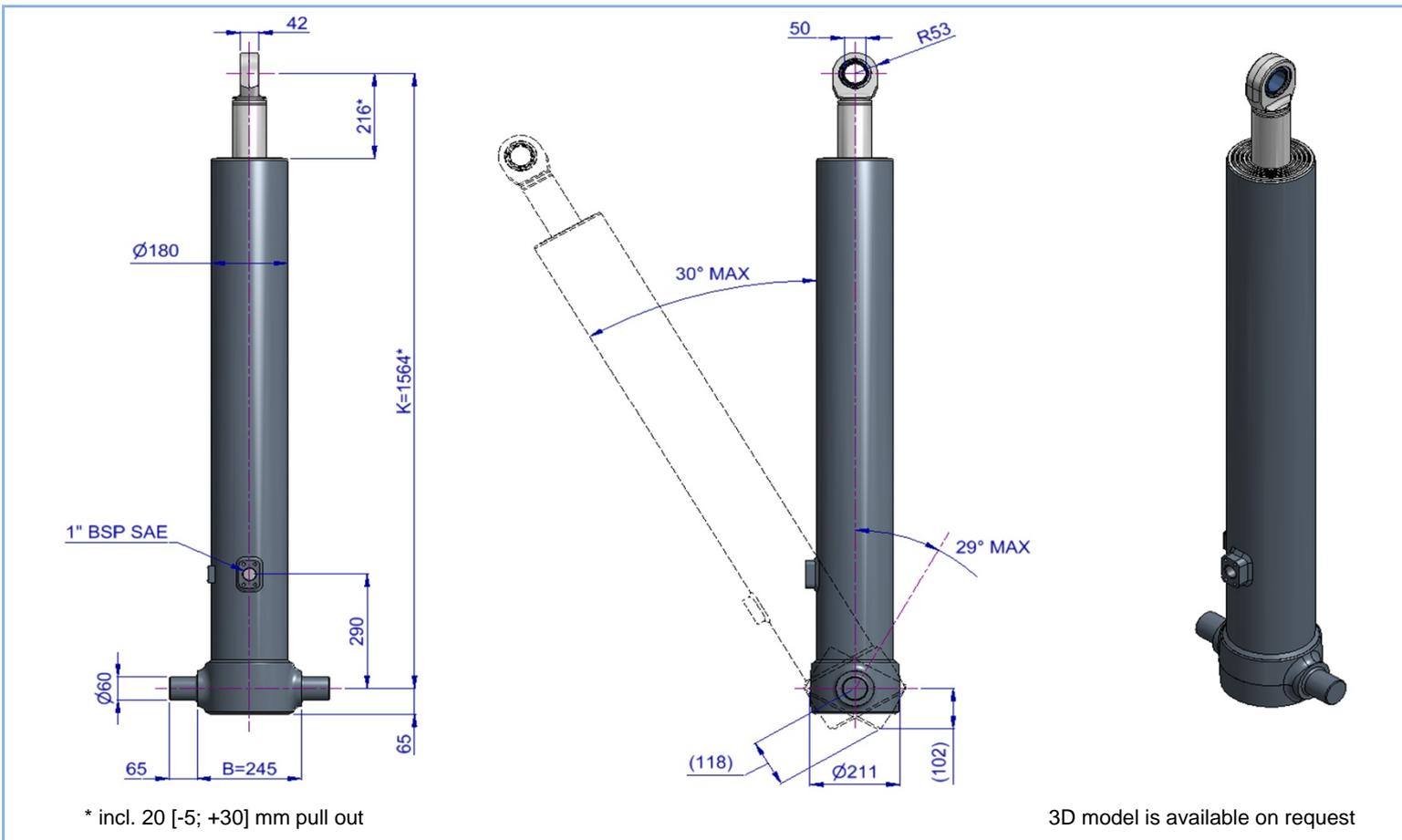
Alpha series - Front end cylinder with single eye



FE A157-5-05830-019-K1564*290

Item no.
Tipping weight

70146512
26 - 47 ton



Specifications

Max. working pressure	190 bar	Max. pump flow (with KO)	151 L/min	Resulting tipping time (with KO)	27 sec
Weight	205 kg	Max. pump flow (without KO)	106 L/min	Resulting tipping time (without KO)	38 sec
Working volume	67 L			Allowable lowering time	27 sec
Total volume	73 L				
Max. cyl. load (start tipping)	205 kN				
Max. cyl. load (end of stroke)	126 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]	1150	1170	1170	1170	1170			5830

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).

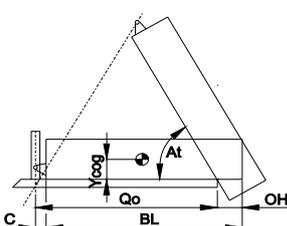
Related documentation

Bracket options: 015BRA10 & 015BRA13

Mounting instructions: CYL-0031

Oil specifications: OIL-0011

Tipping weight



BL	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] OH [mm] At [°]	7700			7400			7100		
	200	500	800	200	500	800	200	500	800
Ycog [mm]	46	48	50	48	50	52	50	52	55
Ycog [mm]	26	29	32	27	30	33	28	31	35
Ycog [mm]	28	31	35	29	33	37	31	35	40
Ycog [mm]	31	34	39	32	36	42	34	39	47

Tipping weight [ton] at maximum pressure of 190 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.
P01	70462477	PISTON MN2 S 080-1480-HC	1
P02	70209300 K	SLIDER MN 080 (2 x 1/2) A22	1
P03	70216080 K	OUTER STOPRING MN 080 A22	1
P04	70224080	BOTTOM PLATE PISTON MN 080	1
P05	01745035 K	CIRCLIP 70 DIN 472 (74.5x2.5)	1
P06	70260210 K	O-RING PISTON BOTTOM 080	1
P07	70235300	PISTON EYE SPH. MN 080 MK2 L=075	1
P08	70260110 K	O-RING 63.09 X 3.53 MM	1
P09	71875450 K	SPHERICAL BEARING D.50 MAINT. FREE	1
P10	01770560 K	CIRCLIP 75 GE 50 DO DIN 472	1
P11	71875012	PIN ROUND HEAD GROOVED 8x15 mm	2

S41	70663370	STAGE MN2 099-1360	1
S42	70203099 K	PACKSET MN 099	1
S43	70209310 K	SLIDER MN 099 (2 x 1/2) A22	1
S44	70216099 K	OUTER STOPRING MN 099 A22	1
S45	70217099 K	LIFTRING MN 099 A22	1

S31	70664370	STAGE MN2 118-1360	1
S32	70203118 K	PACKSET MN 118	1
S33	70209320 K	SLIDER MN 118 (2 x 1/2) A22	1
S34	70216118 K	OUTER STOPRING MN 118 A22	1
S35	70217118 K	LIFTRING MN 118 A22	1

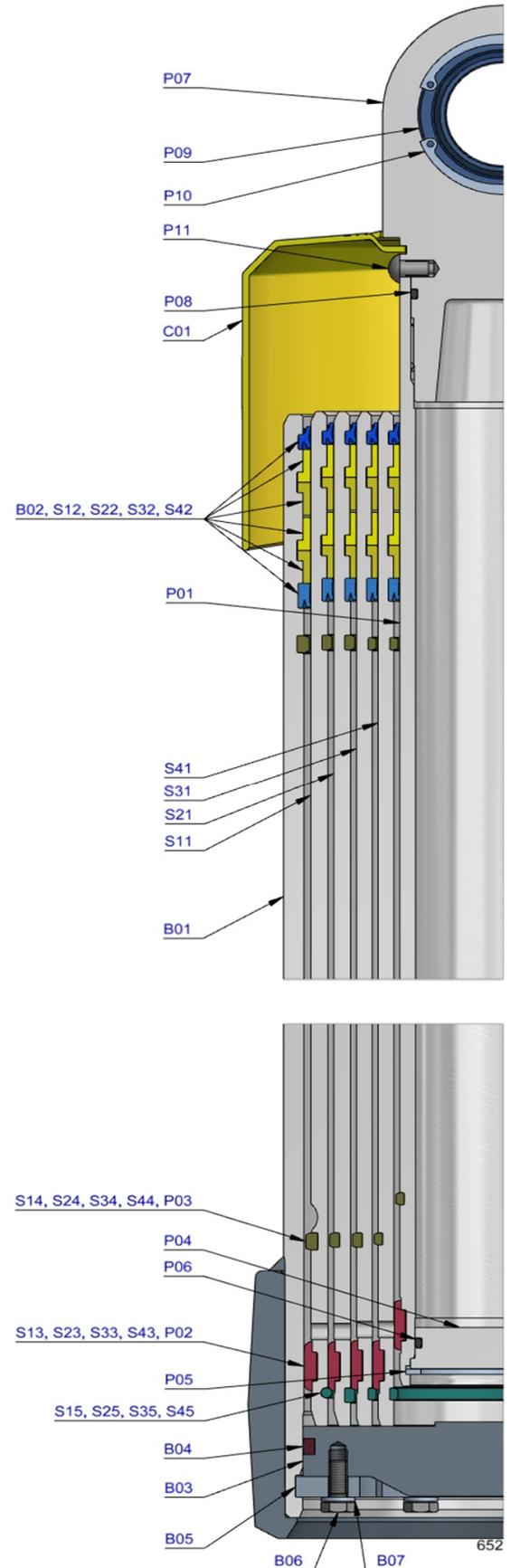
S21	70665370	STAGE MN2 137-1360	1
S22	70203137 K	PACKSET MN 137	1
S23	70207137 K	SLIDER MN 137 A35	1
S24	70216137 K	OUTER STOPRING MN 137 A22	1
S25	70217137 K	LIFTRING MN 137 A22	1

S11	70666370	STAGE MN2 157-1360	1
S12	70203157 K	PACKSET MN 157	1
S13	70207157 K	SLIDER MN 157 A35	1
S14	70216157 K	OUTER STOPRING MN 157 A22	1
S15	70213157 K	LIFTRING MN 157x5 MK2	1

B01	70367374	BASE MN2 179-1403-4/4BSAE-290	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

	71907650 K	Consists of all packsets with packset grease and O-rings	
--	------------	--	--



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.