

Alpha series - Front end cylinder with double eye



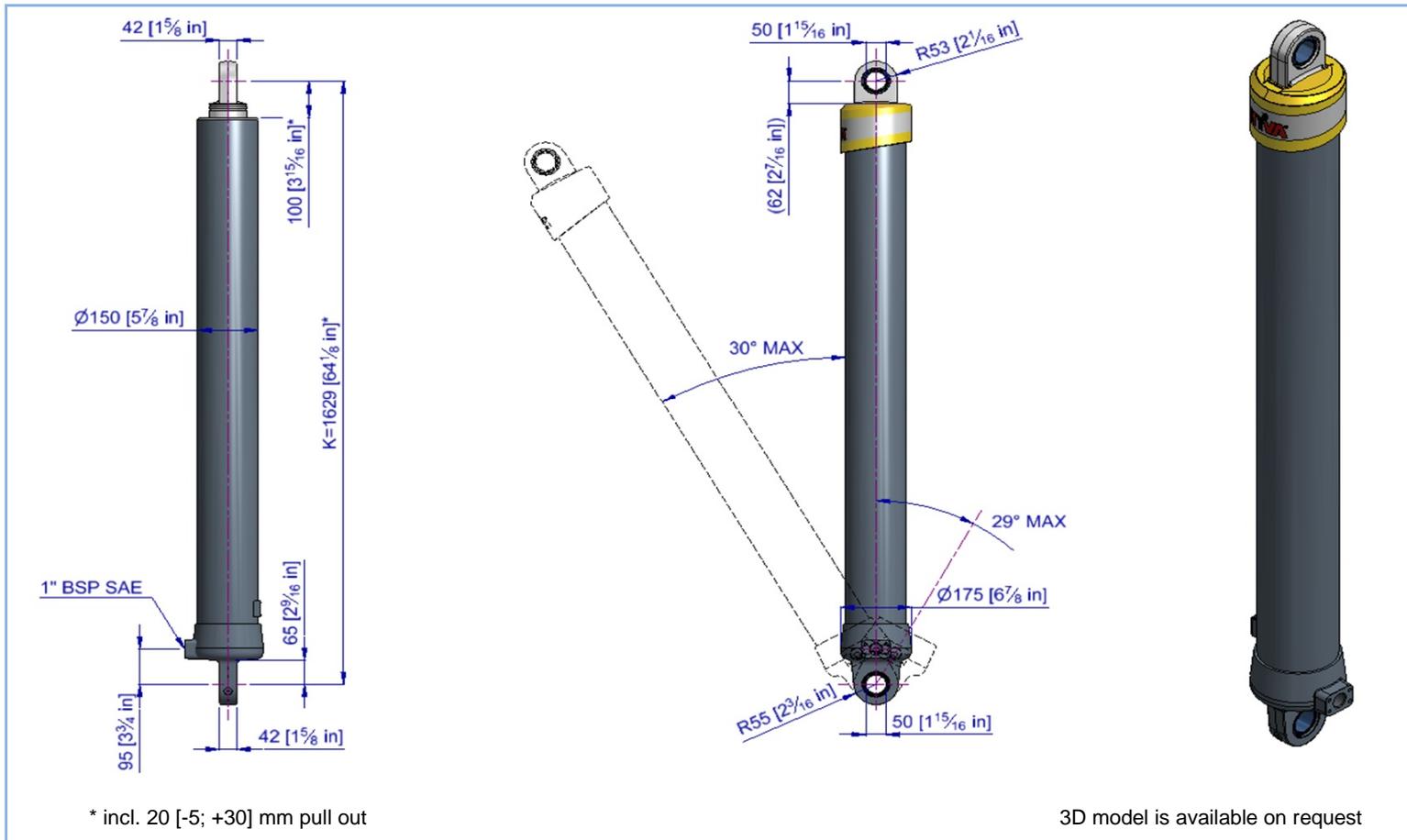
FSE A129-3-03730-471-K1629

Item no.

70574220

Tipping weight

43 - 58 ton



Specifications

Max. working pressure	250 bar
Weight	130 kg
Working volume	36 L
Total volume	39 L
Max. cyl. load (start tipping)	245 kN

Max. pump flow

With KO ¹	190 L/min
Without KO ¹	137 L/min
With KO ¹ below -20°C	133 L/min
Without KO ¹ below -20°C	96 L/min

Tipping time

With KO ¹	11 sec
Without KO ¹	16 sec
With KO ¹ below -20°C	16 sec
Without KO ¹ below -20°C	23 sec
Allowable lowering time	11 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	129	110	91					3730
Stroke* [mm]	1230	1250	1250					

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.
- Tipping valve must have a pressure relief at the cylinder port set not higher than max. working pressure.
- Verify max. cyl. load.
- 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 min. thickness conforming to the 480 hours neutral salt spray test as per ISO 9227.
- ¹ Hyva knock-off.

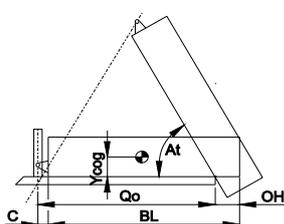
Related documentation

Bracket options: 015BRA11 & 015BRA13

Mounting instructions: CYL-0033

Oil specifications: OIL-0011
Spec sheet explanation: CYL-0041

Tipping weight



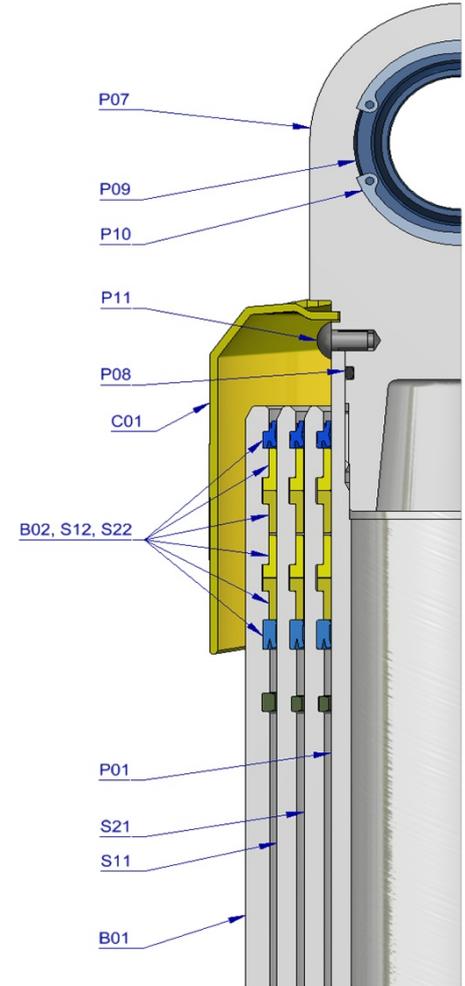
BL	body length
OH	rear overhang
Ycog	vert. pos. centre of gravity
Qo	pivot length
C	bracket length
At	tipping angle
	stroke x 60 / Qo

BL [mm]	4900			4750			4600		
OH [mm]	200	400	600	200	400	600	200	400	600
At [°]	46	49	51	48	50	53	50	52	55
Ycog [mm]	43	47	51	44	48	53	45	49	54
	47	52	58	48	54		50	56	
	52			54					

Tipping weight [ton] 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>

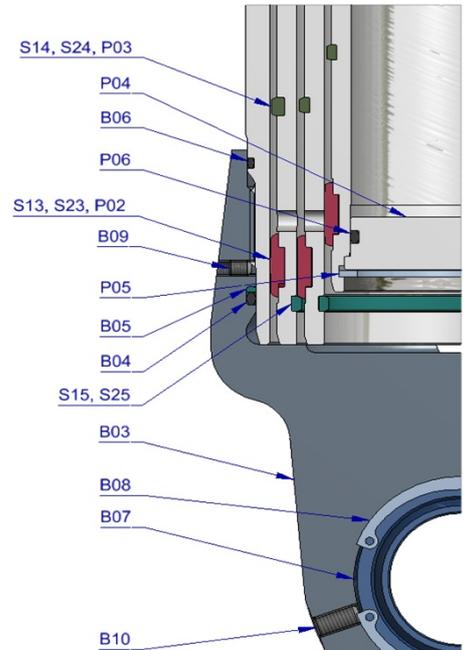
Pos.	Part no.	Description	Qty.
C01	71839110	DUST COVER FE 129-3/137-3	1
P01	74402441	PISTON FL2 S 091-1445-HC	1
P02	71853091 K	SLIDER FL 091 (2 X 1/2) A22	1
P03	71851091 K	OUTER STOPRING FL 091 A22	1
P04	71822091	BOTTOM PLATE PISTON FL 091	1
P05	01745012 K	CIRCLIP 82 DIN 472 (87.5x2.5)	1
P06	71870215 K	O-RING PISTON BOTTOM 091	1
P07	71847200	PISTON EYE SPH. FL 091 MK2 L=075	1
P08	01226430 K	O-RING 72.62 X 3.53 MM	1
P09	71875450 K	SPHERICAL BEARING D.50 MAINT. FREE	1
P10	01770560 K	CIRCLIP 75 DIN 472 (79.5x3.0)	1
P11	71875012	PIN ROUND HEAD GROOVED 8x15 mm	2



S21	74603440	STAGE FL2 110-1440	1
S22	71802110 K	PACKSET FL 110	1
S23	71853110 K	SLIDER FL 110 (2 X 1/2) A22	1
S24	71851110 K	OUTER STOPRING FL 110 A22	1
S25	71852110 K	LIFTRING FL 110 A22	1

S11	74604440	STAGE FL2 129-1440	1
S12	71802129 K	PACKSET FL 129/HP 129	1
S13	71853129 K	SLIDER FL 129 (2 X 1/2) A22	1
S14	71851129 K	OUTER STOPRING FL 129 A22	1
S15	71852129 K	LIFTRING FL 129 A22	1

B01	74505470	BASE FL2 S 149-1440	1
B02	71802149 K	PACKSET FL 149/HP 150	1
B03	71849020	THREADED BOTTOM FL2 149-4/4SAE-90	1
B04	01226680 K	O-RING 145 X 4 NBR 70 SHORE A	1
B05	71849220 K	BACK-UP RING PTFE STMS 150.1 X 143.5 X 2	1
B06	01225558 K	O-RING 143 X 3 NBR 70 SHORE A	1
B07	71875450 K	SPHERICAL BEARING D.50 MAINT. FREE	1
B08	01770560 K	CIRCLIP 75 DIN 472 (79.5x3.0)	1
B09	01792569 K	LOCKING SCREW M6X8 INT. HEX. DIN 916	1
B10	15013720 K	BOLT HSHC M8X16X1 Q8.8 DIN 916 ZP	2



Seal kit complete

	71908435 K	Consists of all packsets with packset grease and O-rings	
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Notes

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