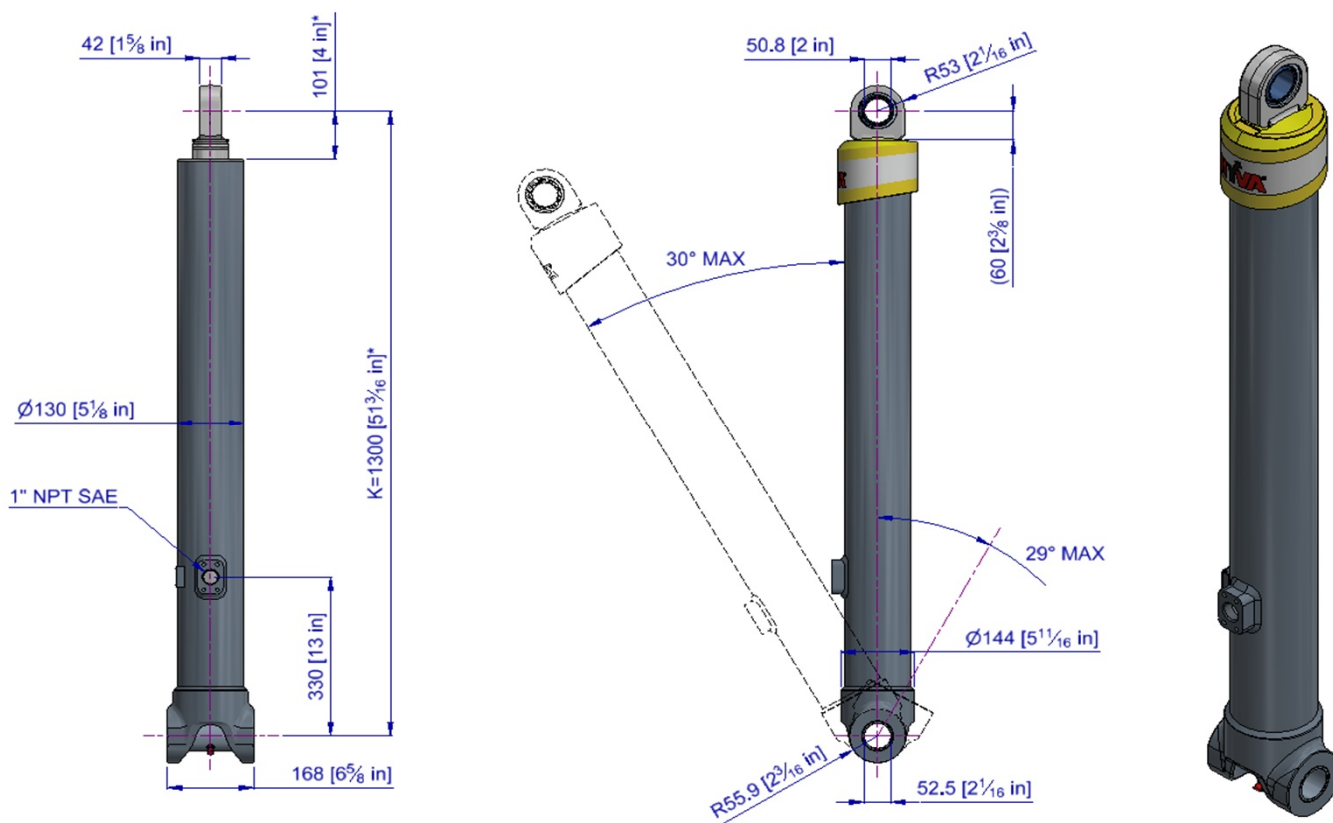


Alpha series - Front end cylinder with double eye



FEE A110-3-02785-223-K1300
Equivalent to FEE A5-3-110-K51

Item no. 70573120
Tipping weight 63 - 112 x 1000 lbs



* incl. 0.79 [-0.20; +1.18] inch pull out

3D model is available on request

Specifications

Max. working pressure	3626 psi	Max. pump flow (with KO ¹)	32.2 gallon/min	Resulting tipping time (with KO ¹)	9 sec
Weight	194 lbs	Max. pump flow (without KO ¹)	22.7 gallon/min	Resulting tipping time (without KO ¹)	13 sec
Working volume	5.0 gallon			Allowable lowering time	9 sec
Total volume	5.5 gallon				
Max. cyl. load (start tipping)	44 klbf				

KO¹: Hyva pneumatic knock off

Extension	1	2	3	4	5	6	7	Total
Effective diameter [inch]	4.33	3.58	2.83					
Stroke* [inch]	36	36.8	36.8					109.6

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°F and +176°F. • 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).

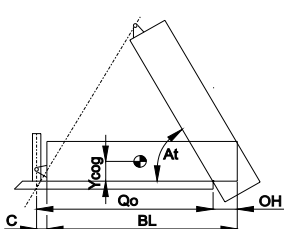
Related documentation

Bracket options: 015BRA13

Mounting instructions: CYL-0032

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 [inch]	146		144		142	
OH [inch]	8	16	24	8	16	24
At [°]	46	49	52	47	50	53
Ycog [inch]						
16	63	71	83	64	72	85
28	72	84	105	73	86	108
39	84	103		85		

Tipping weight [x 1000 lbs] at maximum pressure of 3626 psi for a vertically mounted cylinder and C is 6.22 inch

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

Alpha series - Front end cylinder with double eye



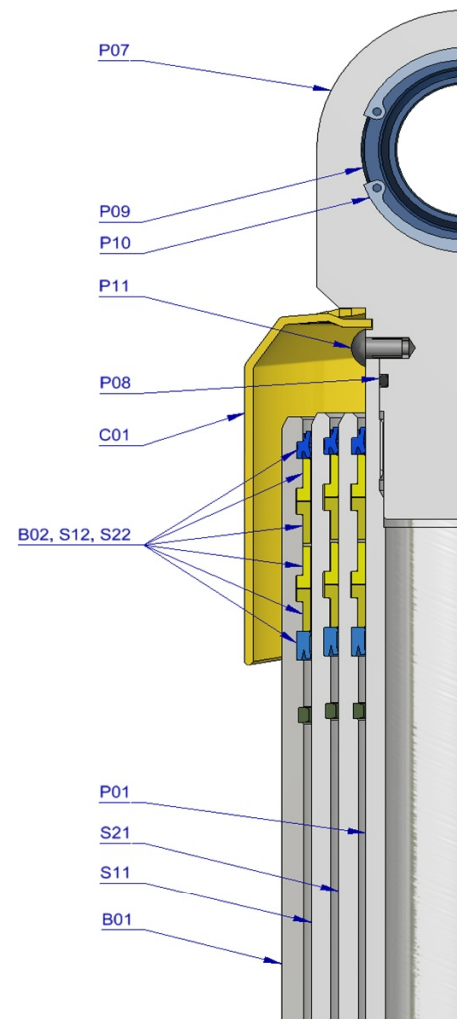
FEE A110-3-02785-223-K1300

Item no.

70573120

Equivalent to FEE A5-3-110-K51

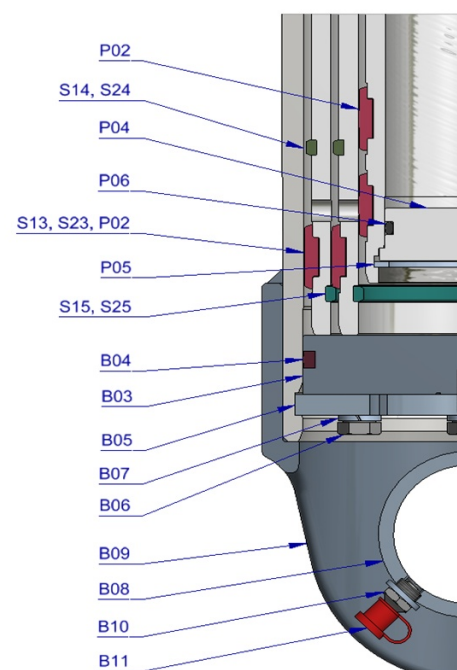
Pos.	Part no.	Description	Qty.
C01	71839100	DUST COVER FE 110-3/118-3	1
P01	74401201	PISTON FL2 S 072-1130-HC	1
P02	71853072 K	SLIDER FL 072 (2 X 1/2) A22	2
P04	71822072	BOTTOM PLATE PISTON FL 072	1
P05	01745026 K	CIRCLIP 63 DIN 472 (67.2x2.0)	1
P06	71870210 K	O-RING PISTON BOTTOM 072	1
P07	71847100	PISTON EYE SPH. FL 072 MK2 L=075	1
P08	01226420 K	O-RING 53.57 X 3.53 MM	1
P09	71875455 K	SPHERICAL BEARING D.50.8 MAINT. FREE	1
P10	01770560 K	CIRCLIP 75 DIN 472 (79.5x3.0)	1
P11	71875012	PIN ROUND HEAD GROOVED 8x15 mm	2



S21	74602200	STAGE FL2 091-1125	1
S22	71802091 K	PACKSET FL 091	1
S23	71853091 K	SLIDER FL 091 (2 X 1/2) A22	1
S24	71851091 K	OUTER STOPRING FL 091 A22	1
S25	71852091 K	LIFTRING FL 091 A22	1

S11	74603200	STAGE FL2 110-1125	1
S12	71802110 K	PACKSET FL 110	1
S13	71853110 K	SLIDER FL 110 (2 X 1/2) A22	1
S14	71851110 K	OUTER STOPRING FL 110 A22	1
S15	71852110 K	LIFTRING FL 110 A22	1

B01	74504210	BASE FL2 E 129-1164-4/4NSAE-330-O168	1
B02	71802129 K	PACKSET FL 129/HP 129	1
B03	71825415	BOTTOM PLATE FL2 129	1
B04	71870025 K	O-RING BOTTOM PLATE FL 129	1
B05	71820129	LOCKING PLATE FL 129	3
B06	01732055 K	BOLT HEX M8X20X1.25 SET 3 PCS	1
B07	01732559 K	WASHER SPRING M8 SET 3 PCS	1
B08	01793021	EYE TRUNNION TUBE (63-52.5) L=168	1
B09	01746121 K	BOLT LOCKING M8x25 DIN 7991	1
B10	56288044 K	GREASE NIPPLE M8x1 DIN 71412	2
B11	01317670 K	GREASER PROTECTION CAP	2



332

Seal kit complete

	71908330 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-0040. Serial no. is located on type plate and near type plate support.