

* incl. 20 [-5; +30] mm pull out

3D model is available on request

Specifications

Max. working pressure	250 bar
Weight	88 kg
Working volume	19 L
Total volume	21 L
Max. cyl. load (start tipping)	195 kN

Max. pump flow

With KO ¹	122 L/min
Without KO ¹	86 L/min
With KO ¹ below -20°C	85 L/min
Without KO ¹ below -20°C	60 L/min

Tipping time

With KO ¹	9 sec
Without KO ¹	13 sec
With KO ¹ below -20°C	13 sec
Without KO ¹ below -20°C	19 sec
Allowable lowering time	9 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	110	91	72					
Stroke* [mm]	915	935	935					2785

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.

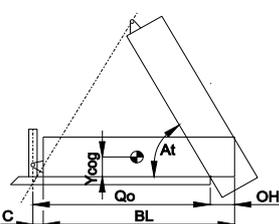
Related documentation

Bracket options: 015BRA13 & 015BRA17

Mounting instructions: CYL-0032

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]	3700			3650			3600		
OH [mm]	200	400	600	200	400	600	200	400	600
At [°]	46	49	52	47	50	53	47	51	54
Ycog [mm]									
C	29	32	38	29	33	39	29	33	39
At	33	38	48	33	39	49	34	40	51
	38	47		39			40		

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>

Alpha series - Front end cylinder with double eye

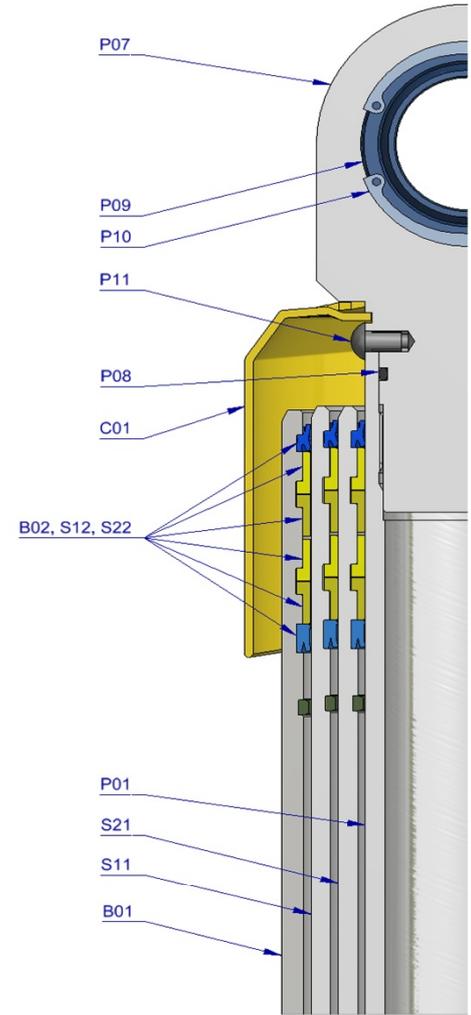


FEE A110-3-02785-221-K1300

Item no.

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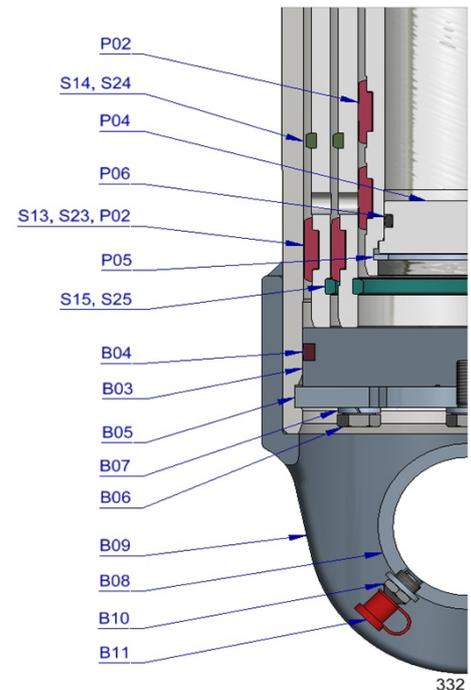
Pos.	Part no.	Description	Qty.
C01	71839100	DUST COVER FE 110-3/118-3	1
P01	74401201	PISTON FL2 S 072-1130-HC	1
P02	71853072 K	SLIDER FL 072 (2 X 1/2) A22	2
P04	71822072	BOTTOM PLATE PISTON FL 072	1
P05	01745026 K	CIRCLIP 63 DIN 472 (67.2x2.0)	1
P06	71870210 K	O-RING PISTON BOTTOM 072	1
P07	71847100	PISTON EYE SPH. FL 072 MK2 L=075	1
P08	01226420 K	O-RING 53.57 X 3.53 MM	1
P09	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	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



Seal kit complete

	71908330 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.

For repair instructions see: CYL-0040. Serial no. is located on type plate and near type plate support.