

## Specifications

Max. working pressure	250 bar
Weight	120 kg
Working volume	30 L
Total volume	33 L
Max. cyl. load (start tipping)	245 kN

## Max. pump flow

With KO <sup>1</sup>	195 L/min
Without KO <sup>1</sup>	137 L/min
With KO <sup>1</sup> below -20°C	137 L/min
Without KO <sup>1</sup> below -20°C	96 L/min

## Tipping time

With KO <sup>1</sup>	9 sec
Without KO <sup>1</sup>	13 sec
With KO <sup>1</sup> below -20°C	13 sec
Without KO <sup>1</sup> below -20°C	19 sec
Allowable lowering time	7 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	129	110	91					3140
Stroke* [mm]	1030	1055	1055					

## 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.
- <sup>1</sup> 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]	4100			4050			4000		
OH [mm]	200	400	600	200	400	600	200	400	600
At [°]	47	50	53	47	50	54	48	51	54
Ycog [mm]	45	50	57	45	50	57	46	51	58
	50	57		51	58		52		
	1000								

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

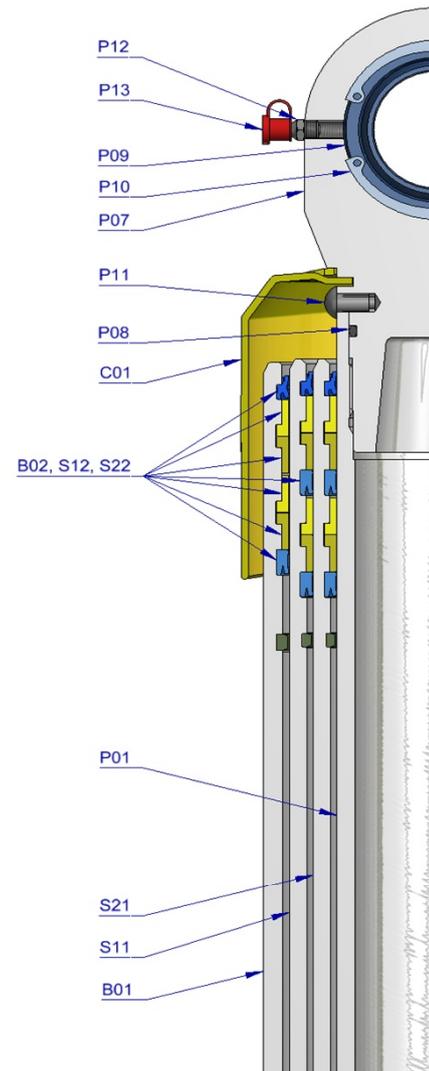


FEE A129-3-03140-223-K1450-HD

Item no.

70564170

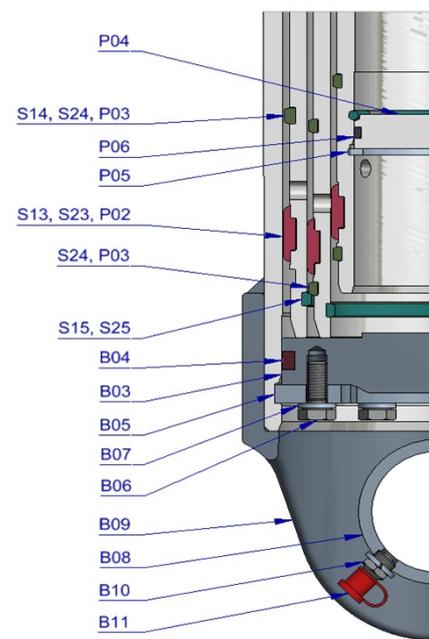
Pos.	Part no.	Description	Qty.
C01	71839110	DUST COVER FE 129-3/137-3	1
P01	74412301	PISTON FL2 S 091-1280-HD-HC	1
P02	71807093 K	SLIDER FL 091 (2 X 1/2) A35	1
P03	71851091 K	OUTER STOPRING FL 091 A22	2
P04	71822705	BOTTOM PLATE PISTON FL 091 MK2 HD	1
P05	01745020 K	CIRCLIP 78 DIN 472 (82.5x2.5)	1
P06	71870215 K	O-RING PISTON BOTTOM 091	1
P07	71847201	PISTON EYE SPH. FL 091 MK2 L=075 GR	1
P08	01226430 K	O-RING 72.62 X 3.53 MM	1
P09	01770020 K	SPHERICAL BEARING D.50.8 DO OD75 GR.	1
P10	01770560 K	CIRCLIP 75 DIN 472 (79.5x3.0)	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



S21	74613300	STAGE FL2 110-1275-HD	1
S22	71808110 K	PACKSET FL 110/HP 110 TANDEM SEAL	1
S23	71807112 K	SLIDER FL 110 (2 X 1/2) A35	1
S24	71851110 K	OUTER STOPRING FL 110 A22	2
S25	71852110 K	LIFTRING FL 110 A22	1

S11	74614300	STAGE FL2 129-1275-HD	1
S12	71808129 K	PACKSET FL 129/HP 129 TANDEM SEAL	1
S13	71807131 K	SLIDER FL 129 (2 X 1/2) A35	1
S14	71851129 K	OUTER STOPRING FL 129 A22	1
S15	71852129 K	LIFTRING FL 129 A22	1

B01	74515310	BASE FL2 E 149-1314-4/4NSAE-330-O194-HD	1
B02	71802149 K	PACKSET FL 149/HP 150	1
B03	71825420	BOTTOM PLATE FL2 149	1
B04	71870030 K	SEAL BOTTOM PLATE FL 149	1
B05	71820149	LOCKING PLATE FL 149	3
B06	01732055 K	BOLT HEX M8X20X1.25 SET 6 PCS	1
B07	01732559 K	WASHER SPRING M8 SET 6 PCS	1
B08	01793041	EYE TRUNNION TUBE (63-52.5) L=194	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



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## Seal kit complete

	71908431 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.