

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

3D model is available on request

Specifications

Max. working pressure	220 bar
Weight	494 kg
Working volume	174 L
Total volume	186 L
Max. cyl. load (start tipping)	440 kN
Max. cyl. load (end of stroke) ²	265 kN
Max. cyl. load (end of stroke) ³	309 kN

Max. pump flow

With KO ¹	190 L/min
Without KO ¹	170 L/min
With KO ¹ below -20°C	133 L/min
Without KO ¹ below -20°C	119 L/min

Tipping time

With KO ¹	55 sec
Without KO ¹	61 sec
With KO ¹ below -20°C	79 sec
Without KO ¹ below -20°C	87 sec
Allowable lowering time	55 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	214	191	169	149	129			7430
Stroke* [mm]	1470	1490	1490	1490	1490			

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. • ² Unsubstantial unloading (sticky load).
- ³ Substantial unloading.

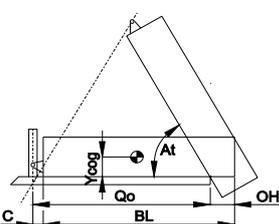
Related documentation

Bracket options: 015BRA10 & 015BRA12

Mounting instructions: CYL-0030

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]	9900			9500			9100		
OH [mm]	200	500	800	200	500	800	200	500	800
At [°]	44	46	47	46	48	49	48	50	52
Ycog [mm]									
600	78	82	87	80	85	91	82	88	95
900	82	87	93	84	90	98	88	95	
1200	86	92	100	89	97		94		

Tipping weight [ton] at maximum pressure of 220 bar for a vertically mounted cylinder and C is 229 mm

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

Alpha series - Front end cylinder with outer cover

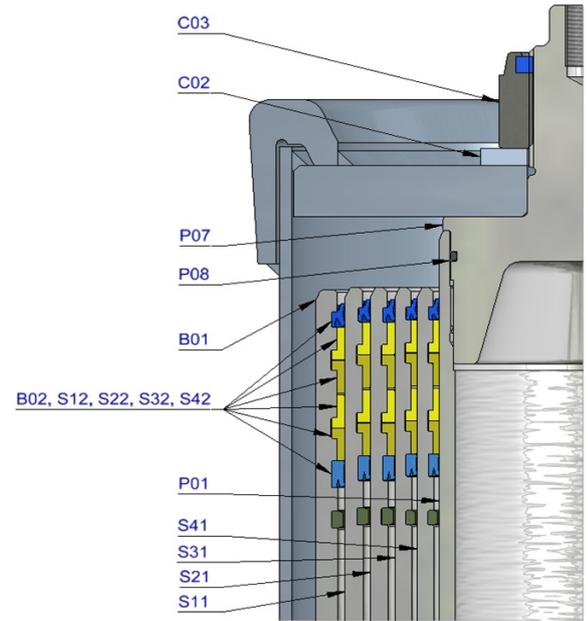


FC A214-5-07430-000-K0486

Item no.

70528632

Pos.	Part no.	Description	Qty.
C01	71737557	COVER 273-1345 PIN60 A360 SPH REINF GR	1
C02	01702956 K	WASHER M48 DIN 125B ZP	1
C03	01702907 K	TOPNUT NYLOC M48x3 DIN 985 ZP	1
C04	01791953	O-RING COVER D.273	1
C05	56288044 K	GREASE NIPPLE M8x1 DIN 71412	1
C06	01317670 K	GREASER PROTECTION CAP	1
P01	74404683	PISTON FL2 S 129-1705-HC	1
P02	71853129 K	SLIDER FL 129 (2 X 1/2) A22	1
P03	71851129 K	OUTER STOPRING FL 129 A22	1
P04	71822129	BOTTOM PLATE PISTON FL 129	1
P05	01745052 K	CIRCLIP 120 DIN 472 (127.0x4.0)	1
P06	71870225 K	O-RING PISTON BOTTOM 129	1
P07	71848400	PISTON HEAD FL 129 MK2	1
P08	71870125 K	O-RING 110.72 X 3.53 MM	1



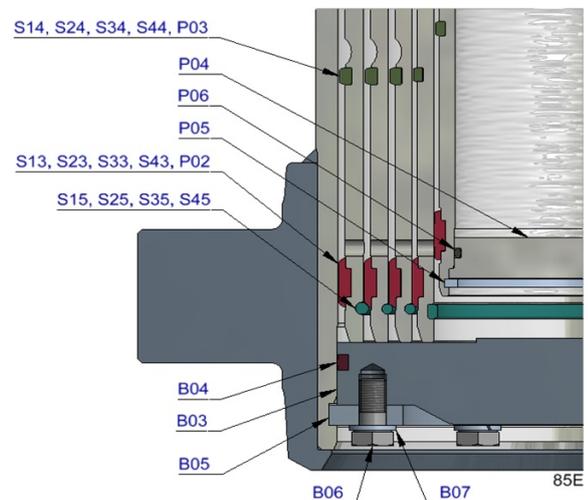
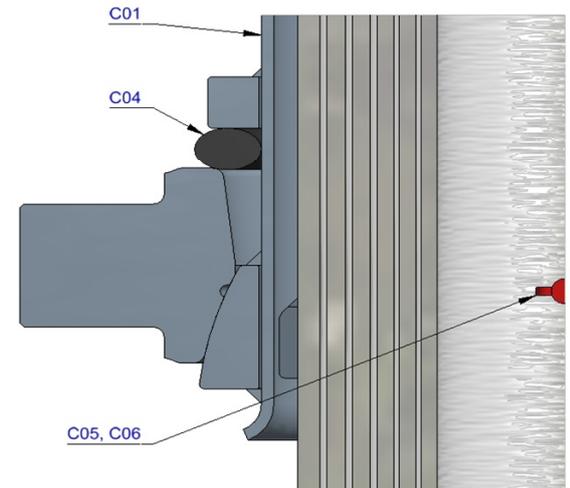
S41	74605700	STAGE FL2 149-1700	1
S42	71802149 K	PACKSET FL 149/HP 150	1
S43	71807151 K	SLIDER FL 149 A35	1
S44	71851149 K	OUTER STOPRING FL 149 A22	1
S45	71852149 K	LIFTRING FL 149 A22	1

S31	74606700	STAGE FL2 169-1700	1
S32	71802169 K	PACKSET FL 169	1
S33	71807171 K	SLIDER FL 169 A35	1
S34	71851169 K	OUTER STOPRING FL 169 A22	1
S35	71813169 K	LIFTRING FL 169x5	1

S21	74607690	STAGE FL2 191-1700	1
S22	71802191 K	PACKSET FL 191	1
S23	71807193 K	SLIDER FL 191 A35	1
S24	71851191 K	OUTER STOPRING FL 191 A22	1
S25	71813191 K	LIFTRING FL 191x5	1

S11	74608690	STAGE FL2 214-1700	1
S12	71802214 K	PACKSET FL 214	1
S13	71807216 K	SLIDER FL 214 A35	1
S14	71851214 K	OUTER STOPRING FL 214 A22	1
S15	71813214 K	LIFTRING FL 214x6	1

B01	74509690R1245	BASE FL2 238-1751-4/4BSAE-190-C273	1
B02	71802238 K	PACKSET FL 238	1
B03	71825440	BOTTOM PLATE FL2 238	1
B04	71870050 K	SEAL BOTTOM PLATE FL 238	1
B05	71820238	LOCKING PLATE FL 238	3
B06	01732020 K	BOLT HEX M12X25X1.25 SET 6 PCS	1
B07	01732523 K	WASHER SPRING M12 SET 6 PCS	1



Seal kit complete

	71908850 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.