

Specifications

Max. working pressure	220 bar
Weight	483 kg
Working volume	170 L
Total volume	182 L
Max. cyl. load (start tipping)	345 kN
Max. cyl. load (end of stroke) ²	182 kN
Max. cyl. load (end of stroke) ³	213 kN

Max. pump flow

With KO ¹	220 L/min
Without KO ¹	190 L/min
With KO ¹ below -20°C	154 L/min
Without KO ¹ below -20°C	133 L/min

Tipping time

With KO ¹	46 sec
Without KO ¹	54 sec
With KO ¹ below -20°C	66 sec
Without KO ¹ below -20°C	77 sec
Allowable lowering time	37 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	214	191	169	149	129	110		8055
Stroke* [mm]	1310	1340	1345	1350	1355	1355		

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.

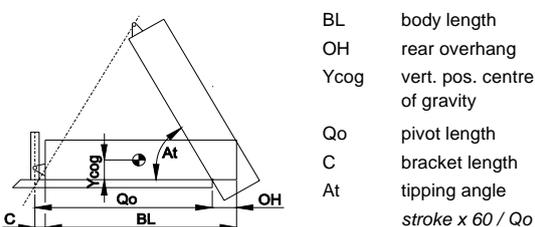
Related documentation

Bracket options: 015BRA10 & 015BRA12

Mounting instructions: CYL-0030

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

Tipping weight



BL [mm] OH [mm] At [°]	10700			10300			9900		
	200	500	800	200	500	800	200	500	800
Ycog [mm]	44	46	47	46	48	49	48	50	51
600	57	60	64	59	62	66	60	64	69
900	60	63	68	62	66	71	64	69	75
1200	63	67	72	65	70	76	68	74	

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

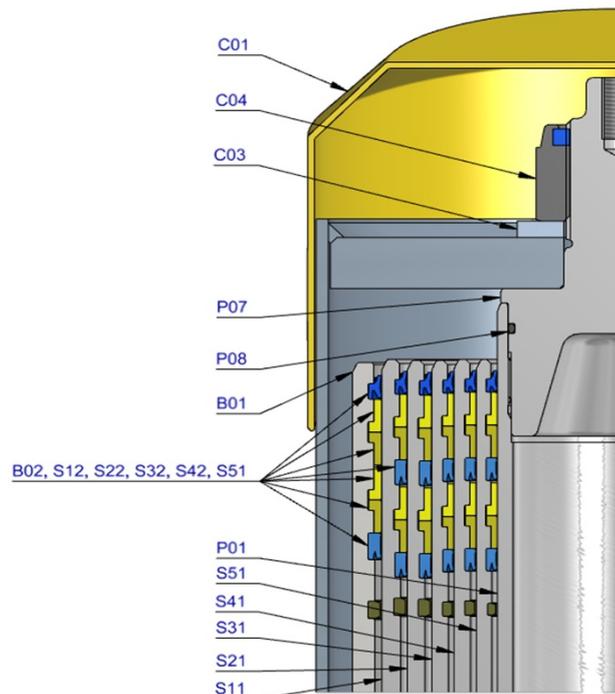


FC A214-6-08055-004-K0486-HD

Item no.

70518780

Pos.	Part no.	Description	Qty.
C01	71839050	DUST COVER FC LOW 15-273	1
C02	71737468	COVER 273-1225 PIN60 A360 SPH LOCK	1
C03	01702956 K	WASHER M48 DIN 125B ZP	1
C04	01702907 K	TOPNUT NYLOC M48x3 DIN 985 ZP	1
C05	01791953	O-RING COVER D.273	1
C06	15014550 K	BOLT HSHC M12X30X1.75 Q8.8 DIN 912 ZP	1
P01	74413581	PISTON FL2 S 110-1585-HD-HC	1
P02	71807112 K	SLIDER FL 110 (2 X 1/2) A35	1
P03	71851110 K	OUTER STOPRING FL 110 A22	2
P04	71822710	BOTTOM PLATE PISTON FL 110 MK2 HD	1
P05	01745021 K	CIRCLIP 97 DIN 472 (102.5x3.0)	1
P06	71870220 K	O-RING PISTON BOTTOM 110	1
P07	71848300	PISTON HEAD FL 110 MK2	1
P08	01226538 K	O-RING 91.67 X 3.53 MM NBR	1



S51	74614580	STAGE FL2 129-1580-HD	1
S52	71808129 K	PACKSET FL 129/HP 129 TANDEM SEAL	1
S53	71807131 K	SLIDER FL 129 (2 X 1/2) A35	1
S54	71851129 K	OUTER STOPRING FL 129 A22	2
S55	71852129 K	LIFTRING FL 129 A22	1

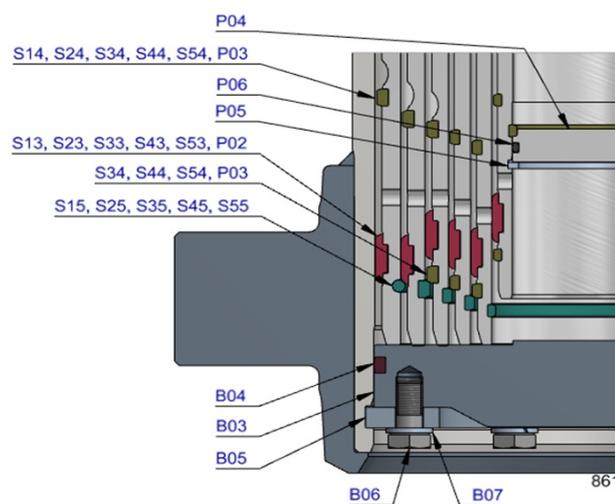
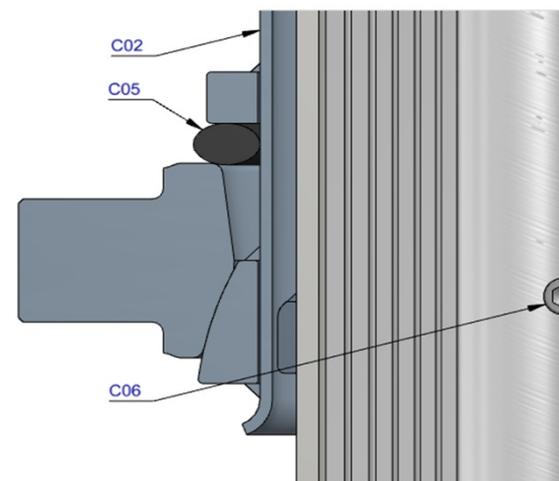
S41	74615580	STAGE FL2 149-1580-HD	1
S42	71808149 K	PACKSET FL 149/HP 150 TANDEM SEAL	1
S43	71807151 K	SLIDER FL 149 A35	1
S44	71851149 K	OUTER STOPRING FL 149 A22	2
S45	71852149 K	LIFTRING FL 149 A22	1

S31	74616580	STAGE FL2 169-1580-HD	1
S32	71808169 K	PACKSET FL 169 TANDEM SEAL	1
S33	71807171 K	SLIDER FL 169 A35	1
S34	71851169 K	OUTER STOPRING FL 169 A22	2
S35	71852169 K	LIFTRING FL 169 A22	1

S21	74617580	STAGE FL2 191-1580-HD	1
S22	71808191 K	PACKSET FL 191 TANDEM SEAL	1
S23	71807193 K	SLIDER FL 191 A35	1
S24	71851191 K	OUTER STOPRING FL 191 A22	1
S25	71852191 K	LIFTRING FL 191 A22	1

S11	74618580	STAGE FL2 214-1580-HD	1
S12	71808214 K	PACKSET FL 214 TANDEM SEAL	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	74519580R1125	BASE FL2 238-1631-4/4BSAE-190-C273-HD	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

	71908861 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.