

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

3D model is available on request or www.hyva.com

Specifications		Max. pump flow		Tipping time	
Max. working pressure	150 bar	With KO ¹	190 L/min	With KO ¹	60 sec
Weight	428 kg	Without KO ¹	170 L/min	Without KO ¹	67 sec
Working volume	191 L	With KO ¹ below -20°C	133 L/min	With KO ¹ below -20°C	86 sec
Total volume	204 L	Without KO ¹ below -20°C	119 L/min	Without KO ¹ below -20°C	96 sec
Max. cyl. load (start tipping)	440 kN			Allowable lowering time	60 sec
Max. cyl. load (end of stroke) ²	147 kN				
Max. cyl. load (end of stroke) ³	171 kN				

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

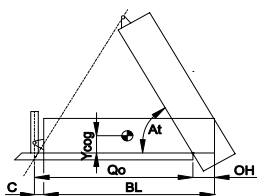
- Bracket options: 015BRA10 & 015BRA13
- Mounting instructions: CYL-0031
- Oil specifications: OIL-0011
- Spec sheet explanation: CYL-0041

Configuration

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	214	191	169	149	129			8130
Stroke* [mm]	1610	1630	1630	1630	1630			

Tipping weight

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



- BL body length
 - OH rear overhang
 - Ycog vert. pos. centre of gravity
 - Qo pivot length
 - C bracket length
 - At tipping angle
- $stroke \times 60 / Qo$

BL [mm]	10700			10450			10200		
OH [mm]	200	500	800	200	500	800	200	500	800
At [°]	46	47	49	47	48	50	48	50	51
Ycog [mm]									
600	52	54	58	52	55	59	53	56	60
900	54	57	61	55	59	63	56	60	64
1200	57	61	65	58	62	67	60	64	69

Tipping weight [ton] at maximum pressure of 150 bar for a vertically mounted cylinder and C is 158 mm

Pos.	Part no.	Description	Qty.
C01	71839150	DUST COVER FE 202-5/214-5	1
P01	74464771	PISTON FL3 S 129-1885-HC	1
P02	71853129K	SLIDER FL 129 (2 X 1/2) A22	1
P03	71851129K	OUTER STOPRING FL 129 A22	1
P04	71822129	BOTTOM PLATE PISTON FL 129	1
P05	01745052K	CIRCLIP 120 DIN 472 (127.0x4.0)	1
P06	71870225K	O-RING PISTON BOTTOM 129	1
P07	71847400	PISTON EYE SPH. FL3 129 L=075 B=60	1
P08	71870125K	O-RING 110.72 X 3.53 MM	1
P09	71875460K	SPHERICAL BEARING D.60.3 MAINT. FREE	1
P10	01770580K	CIRCLIP 90 DIN 472 (95.5x3.5)	1
P11	71875012	PIN ROUND HEAD GROOVED 8x15 mm	2

S41	74605771	STAGE FL2 149-1880-HC	1
S42	71802149K	PACKSET FL 149/HP 150	1
S43	71807151K	SLIDER FL 149 A35	1
S44	71851149K	OUTER STOPRING FL 149 A22	1
S45	71852149K	LIFTRING FL 149 A22	1

S31	74606771	STAGE FL2 169-1880-HC	1
S32	71802169K	PACKSET FL 169	1
S33	71807171K	SLIDER FL 169 A35	1
S34	71851169K	OUTER STOPRING FL 169 A22	1
S35	71813169K	LIFTRING FL 169x5	1

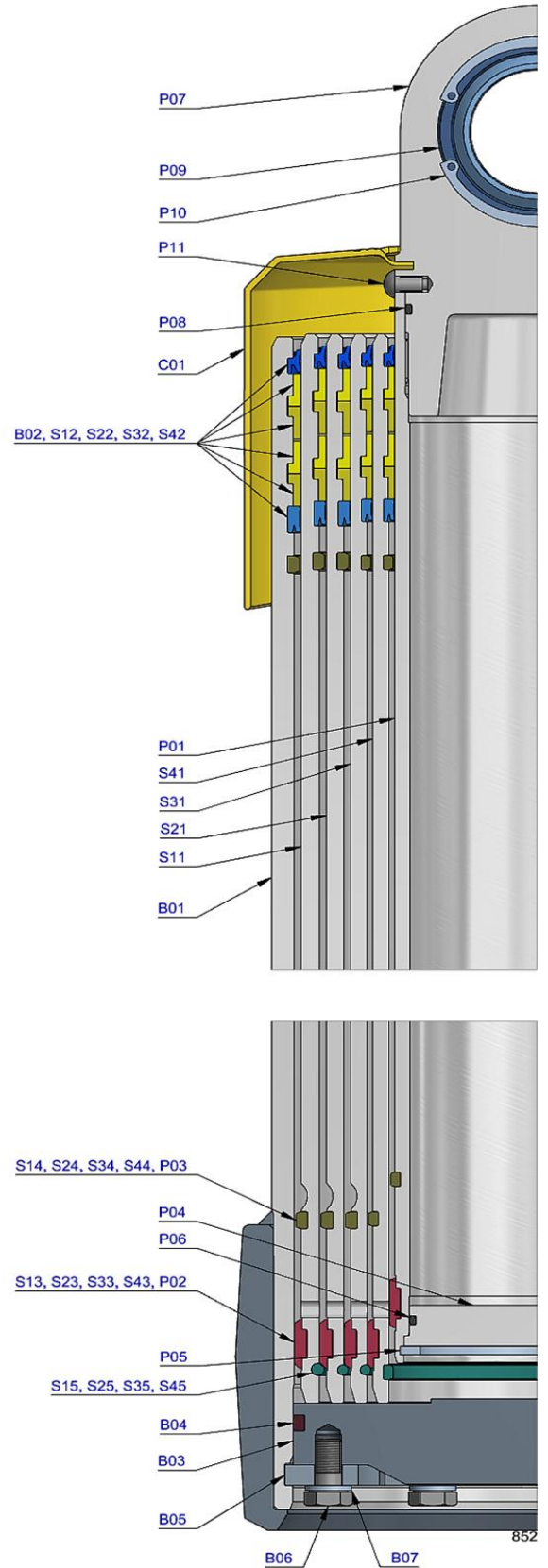
S21	74607771	STAGE FL2 191-1880-HC	1
S22	71802191K	PACKSET FL 191	1
S23	71807193K	SLIDER FL 191 A35	1
S24	71851191K	OUTER STOPRING FL 191 A22	1
S25	71813191K	LIFTRING FL 191x5	1

S11	74608771	STAGE FL2 214-1880-HC	1
S12	71802214K	PACKSET FL 214	1
S13	71807216K	SLIDER FL 214 A35	1
S14	71851214K	OUTER STOPRING FL 214 A22	1
S15	71813214K	LIFTRING FL 214x6	1

B01	74509774	BASE FL2 238-1931-4/4BSAE-290	1
B02	71802238K	PACKSET FL 238	1
B03	71825440	BOTTOM PLATE FL2 238	1
B04	71870050K	SEAL BOTTOM PLATE FL 238	1
B05	71820238	LOCKING PLATE FL 238	3
B06	01732020K	BOLT HEX M12X25X1.25 SET 6 PCS	1
B07	01732523K	WASHER SPRING M12 SET 6 PCS	1

Seal kit complete

71908850K	Consists of all packsets with packset grease and O-rings
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Notes

The inner stopring and piston bottom are pre-mounted on spare bases, stage and pistons. Therefore, when ordering new tubes, it is not required to order these parts separately.

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