

* 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	250 bar	With KO ¹	190 L/min	With KO ¹	19 sec
Weight	257 kg	Without KO ¹	137 L/min	Without KO ¹	26 sec
Working volume	60 L	With KO ¹ below -20°C	133 L/min	With KO ¹ below -20°C	27 sec
Total volume	72 L	Without KO ¹ below -20°C	96 L/min	Without KO ¹ below -20°C	37 sec
Max. cyl. load (start tipping)	245 kN	Max. retraction flow		Retraction time	
Max. cyl. load (end of stroke) ²	178 kN	Above -20°C	12.4 L/min	Above -20°C	19 sec
Max. cyl. load (end of stroke) ³	208 kN	Below -20°C	8.7 L/min	Below -20°C	27 sec
1DA retraction pressure	250 bar				

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

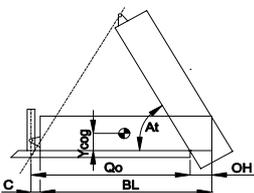
- Bracket options: 015BRA10 & 015BRA12
- Mounting instructions: CYL-0030
- Oil specifications: OIL-0011
- Spec sheet explanation: CYL-0041

Configuration

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	149	129	110	91				5180
Stroke* [mm]	1280	1300	1300	1300				

Tipping weight

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

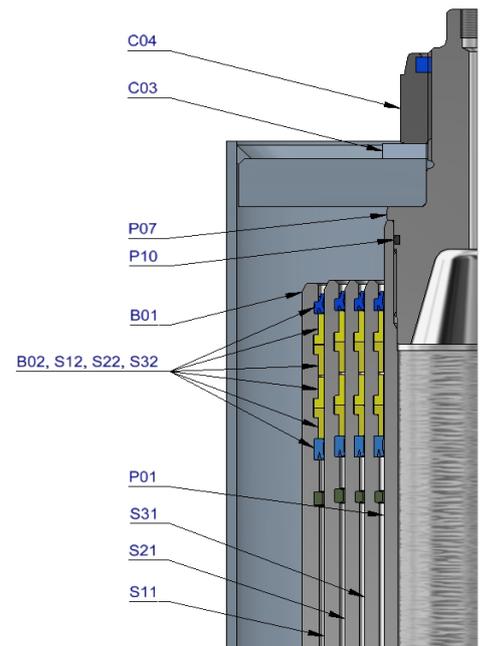


- BL body length
 - OH rear overhang
 - Ycog vert. pos. centre of gravity
 - Qo pivot length
 - C bracket length
 - At tipping angle
- $stroke \times 60 / Qo$

BL [mm]	6900	800	6550	800	6200	800
OH [mm]	200	500	200	500	200	500
At [°]	44	46	47	49	49	52
Ycog [mm]	45	50	47	52	49	55
C	600	50	55	52	59	49
At	900	49	54	51	59	49
	1200	52				

Tipping weight [ton] at maximum pressure of 250 bar for a vertically mounted cylinder and C is 229 mm

Pos.	Part no.	Description	Qty.
C02	71706541	COVER 242-1315 PIN60 A340 FIX	1
C03	01702956K	WASHER M48 DIN 125B ZP	1
C04	01702907K	TOPNUT NYLOC M48x3 DIN 985 ZP	1
P01	74462513	PISTON FL3 S 091-1515-DA-HC	1
P02	71853091K	SLIDER FL 091 (2 X 1/2) A22	1
P03	71851091K	OUTER STOPRING FL 091 A22	1
P04	71822093	BOTTOM PLATE PISTON FL 091 DA	1
P05	71822094K	BACKUP PLATE PISTON FL 091 DA	1
P06	71870215K	O-RING 69.44 X 3.53 MM NBR 70 SHORE	1
P07	71848210	PISTON HEAD FL3 091 1DA G3/8"	1
P08	71852091K	LIFTRING FL 091 A22	1
P09	15012794K	BOLT HSCH 90 M10X20X1.5 Q10.9 DIN7991ZP	5
P10	01226430K	O-RING 72.62 X 3.53 MM NBR 70 SHORE	1

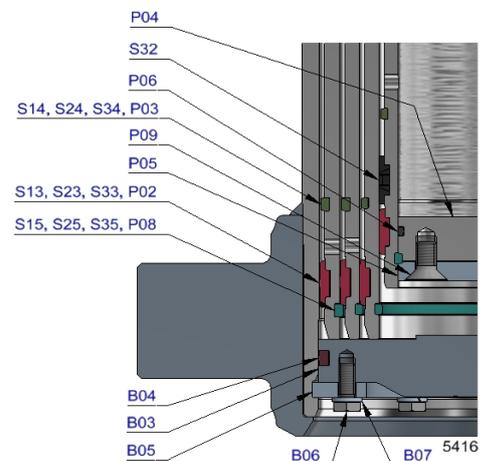
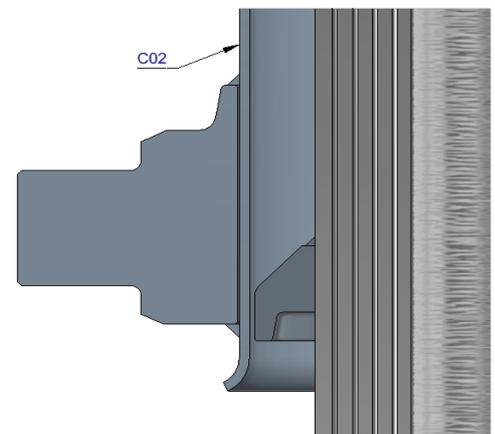


S31	74603512	STAGE FL2 110-1510-1DA	1
S32	71802112K	PACKSET FL 110 DA	1
S33	71853110K	SLIDER FL 110 (2 X 1/2) A22	1
S34	71851110K	OUTER STOPRING FL 110 A22	1
S35	71852110K	LIFTRING FL 110 A22	1

S21	74604510	STAGE FL2 129-1510	1
S22	71802129K	PACKSET FL 129/HP 129	1
S23	71853129K	SLIDER FL 129 (2 X 1/2) A22	1
S24	71851129K	OUTER STOPRING FL 129 A22	1
S25	71852129K	LIFTRING FL 129 A22	1

S11	74605510	STAGE FL2 149-1510	1
S12	71802149K	PACKSET FL 149/HP 150	1
S13	71807151K	SLIDER FL 149 A35	1
S14	71851149K	OUTER STOPRING FL 149 A22	1
S15	71852149K	LIFTRING FL 149 A22	1

B01	74506510R1215	BASE FL2 169-1549-4/4BSAE-190-C242	1
B02	71802169K	PACKSET FL 169	1
B03	71825425	BOTTOM PLATE FL2 169	1
B04	71870035K	SEAL BOTTOM PLATE FL 169	1
B05	71820169	LOCKING PLATE FL 169	3
B06	01732055K	BOLT HEX M8X20X1.25 SET 6 PCS	1
B07	01732559K	WASHER SPRING M8 SET 6 PCS	1



Seal kit complete

71908540K	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.