

Specifications

Max. working pressure	250 bar
Weight	281 kg
Working volume	109 L
Total volume	118 L
Max. cyl. load (start tipping)	440 kN
Max. cyl. load (end of stroke) ²	263 kN
Max. cyl. load (end of stroke) ³	307 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	30 sec
Without KO ¹	34 sec
With KO ¹ below -20°C	43 sec
Without KO ¹ below -20°C	49 sec
Allowable lowering time	24 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	191	169	149	129				5365
Stroke* [mm]	1320	1345	1350	1350				

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.

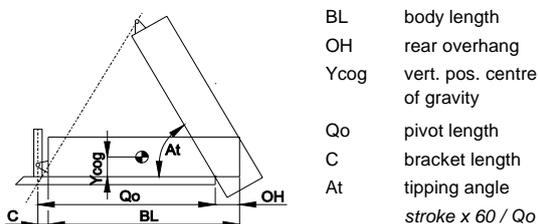
Related documentation

Bracket options: 015BRA10 & 015BRA13

Mounting instructions: CYL-0031

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

Tipping weight

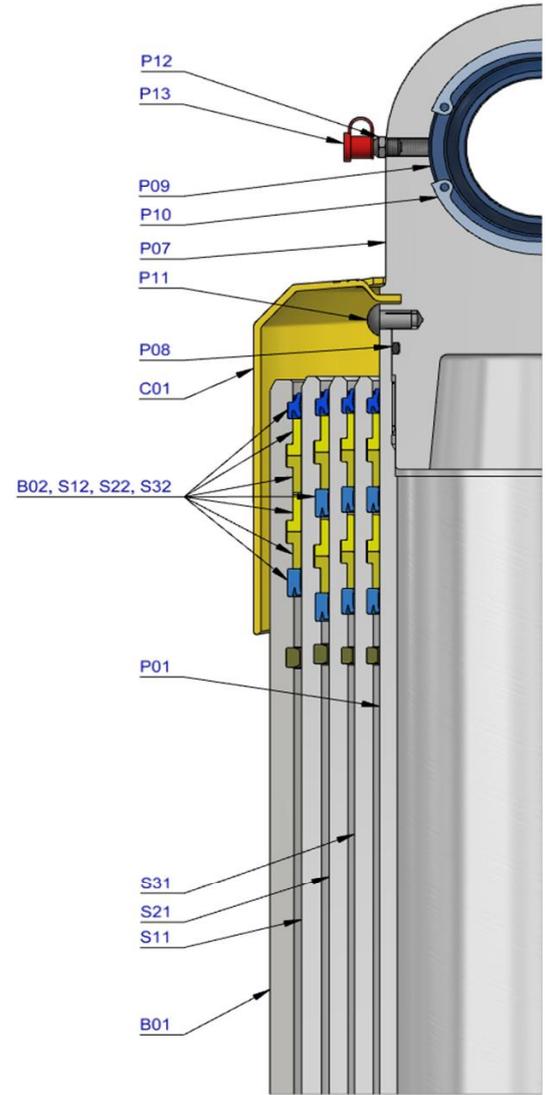


BL [mm]	7100			6850			6600		
OH [mm]	200	500	800	200	500	800	200	500	800
At [°]	46	48	50	47	50	53	49	52	55
Ycog [mm]									
C	89	97		91			94		
At	900			900			900		
	1200			1200			1200		

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>

Pos.	Part no.	Description	Qty.
C01	71839133	DUST COVER FE 179-4/191-4	1
P01	74414581	PISTON FL2 S 129-1585-HD-HC	1
P02	71807131 K	SLIDER FL 129 (2 X 1/2) A35	1
P03	71851129 K	OUTER STOPRING FL 129 A22	2
P04	71822715	BOTTOM PLATE PISTON FL 129 MK2 HD	1
P05	01745022 K	CIRCLIP 115 DIN 472 (122.0x4.0)	1
P06	71870225 K	O-RING PISTON BOTTOM 129	1
P07	71847401	PISTON EYE SPH. FL 129 MK2 L=075 GR	1
P08	71870125 K	O-RING 110.72 X 3.53 MM	1
P09	01770090 K	SPHERICAL BEARING D.60.3 DO GREASED	1
P10	01770580 K	CIRCLIP 90 DIN 472 (95.5x3.5)	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

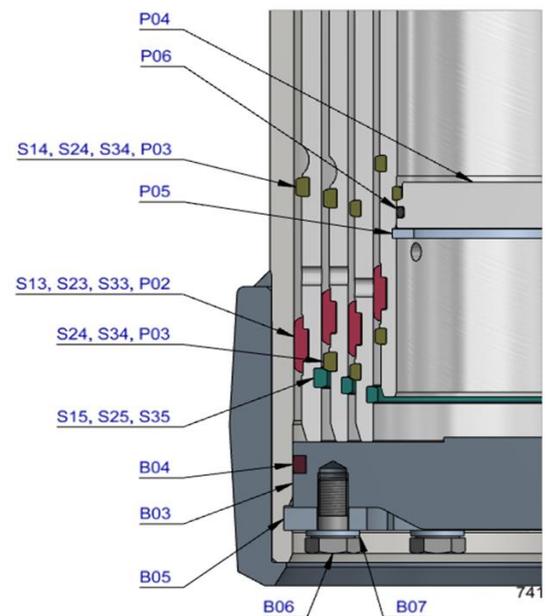


S31	74615580	STAGE FL2 149-1580-HD	1
S32	71808149 K	PACKSET FL 149/HP 150 TANDEM SEAL	1
S33	71807151 K	SLIDER FL 149 A35	1
S34	71851149 K	OUTER STOPRING FL 149 A22	2
S35	71852149 K	LIFTRING FL 149 A22	1

S21	74616580	STAGE FL2 169-1580-HD	1
S22	71808169 K	PACKSET FL 169 TANDEM SEAL	1
S23	71807171 K	SLIDER FL 169 A35	1
S24	71851169 K	OUTER STOPRING FL 169 A22	2
S25	71852169 K	LIFTRING FL 169 A22	1

S11	74617580	STAGE FL2 191-1580-HD	1
S12	71808191 K	PACKSET FL 191 TANDEM SEAL	1
S13	71807193 K	SLIDER FL 191 A35	1
S14	71851191 K	OUTER STOPRING FL 191 A22	1
S15	71852191 K	LIFTRING FL 191 A22	1

B01	74518588	BASE FL2 214-1631-4/4BSAE-700-HD	1
B02	71802214 K	PACKSET FL 214	1
B03	71825435	BOTTOM PLATE FL2 214	1
B04	71870045 K	SEAL BOTTOM PLATE FL 214	1
B05	71820214	LOCKING PLATE FL 214	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

	71908741 K	Consists of all packsets with packset grease and O-rings	
--	------------	--	--

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.