

Specifications

Max. working pressure	220 bar
Weight	214 kg
Working volume	71 L
Total volume	77 L
Max. cyl. load (start tipping)	345 kN
Max. cyl. load (end of stroke) ²	121 kN
Max. cyl. load (end of stroke) ³	141 kN

Max. pump flow

With KO ¹	220 L/min
Without KO ¹	162 L/min
With KO ¹ below -20°C	154 L/min
Without KO ¹ below -20°C	113 L/min

Tipping time

With KO ¹	19 sec
Without KO ¹	26 sec
With KO ¹ below -20°C	27 sec
Without KO ¹ below -20°C	37 sec
Allowable lowering time	15 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	157	137	118	99				5385
Stroke* [mm]	1325	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.

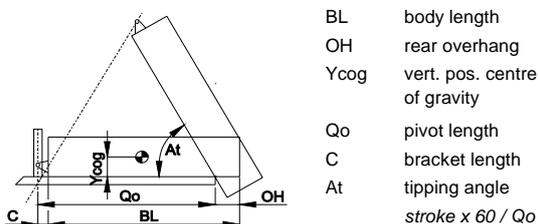
Related documentation

Bracket options: 015BRA10 & 015BRA13

Mounting instructions: CYL-0031

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

Tipping weight

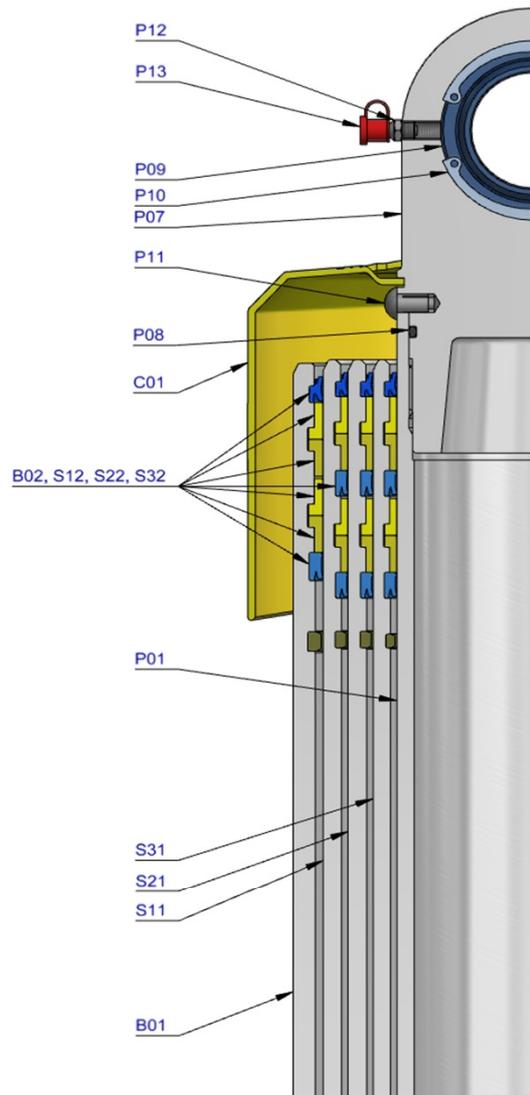


BL [mm]	7100			6850			6600		
OH [mm]	200	500	800	200	500	800	200	500	800
At [°]	46	48	50	48	50	53	50	52	55
Ycog [mm]									
600	46	50	56	47	52	58	49	54	61
900	49	55	62	51	57	65	53	60	70
1200	53	60	69	56	63	75	58	68	82

Tipping weight [ton] at maximum pressure of 220 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	71839121	DUST COVER FE 149-4/157-4	1
P01	70473581	PISTON MN2 S 099-1585-HD-HC	1
P02	70207099 K	SLIDER MN 099 (2 x 1/2) A35	1
P03	70216099 K	OUTER STOPRING MN 099 A22	2
P04	70230099	BOTTOM PLATE PISTON MN 099 MK2 HD	1
P05	01745042 K	CIRCLIP 85 DIN 472 (90.5x3.0)	1
P06	70260215 K	O-RING PISTON BOTTOM 099	1
P07	70235401	PISTON EYE SPH. MN 099 MK2 L=075 GR	1
P08	70260115 K	O-RING 82.14 X 3.53 MM	1
P09	01770085 K	SPHERICAL BEARING D.50 DO GREASED	1
P10	01770560 K	CIRCLIP 75 DIN 472 (79.5x3.0)	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

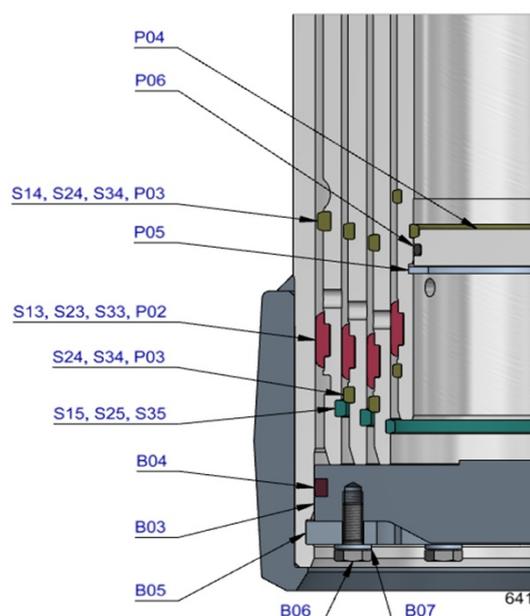


S31	70674580	STAGE MN2 118-1580-HD	1
S32	70202118 K	PACKSET MN 118 TANDEM SEAL	1
S33	70207118 K	SLIDER MN 118 (2 x 1/2) A35	1
S34	70216118 K	OUTER STOPRING MN 118 A22	2
S35	70217118 K	LIFTRING MN 118 A22	1

S21	70675580	STAGE MN2 137-1580-HD	1
S22	70202137 K	PACKSET MN 137 TANDEM SEAL	1
S23	70207137 K	SLIDER MN 137 A35	1
S24	70216137 K	OUTER STOPRING MN 137 A22	2
S25	70217137 K	LIFTRING MN 137 A22	1

S11	70676580	STAGE MN2 157-1580-HD	1
S12	70202157 K	PACKSET MN 157 TANDEM SEAL	1
S13	70207157 K	SLIDER MN 157 A35	1
S14	70216157 K	OUTER STOPRING MN 157 A22	1
S15	70217157 K	LIFTRING MN 157 A22	1

B01	70377588	BASE MN2 179-1623-4/4BSAE-700-HD	1
B02	70203179 K	PACKSET MN 179	1
B03	70225360	BOTTOM PLATE MN2 179	1
B04	70270179 K	SEAL BOTTOM PLATE MN 179	1
B05	70220185	LOCKING PLATE MN2 179	3
B06	01732055 K	BOLT HEX M8X20X1.25 SET 6 PCS	1
B07	01732559 K	WASHER SPRING M8 SET 6 PCS	1



Seal kit complete

	71907641 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.