

3D model is available on request

Specifications

Max. working pressure	220 bar
Weight	312 kg
Working volume	127 L
Total volume	137 L
Max. cyl. load (start tipping)	390 kN
Max. cyl. load (end of stroke) ²	190 kN
Max. cyl. load (end of stroke) ³	221 kN

Max. pump flow

With KO ¹	190 L/min
Without KO ¹	170 L/min
With KO ¹ below -20°C	133 L/min
Without KO ¹ below -20°C	119 L/min

Tipping time

With KO ¹	40 sec
Without KO ¹	45 sec
With KO ¹ below -20°C	57 sec
Without KO ¹ below -20°C	64 sec
Allowable lowering time	40 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	202	179	157	137	118			6230
Stroke* [mm]	1230	1250	1250	1250	1250			

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.

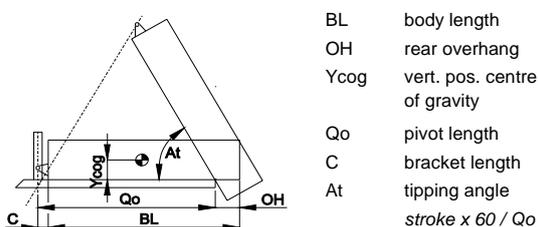
Related documentation

Bracket options: 015BRA10 & 015BRA13

Mounting instructions: CYL-0031

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

Tipping weight



BL [mm]	8200			7850			7500		
OH [mm]	200	500	800	200	500	800	200	500	800
At [°]	46	48	50	48	50	52	50	53	55
Ycog [mm]									
600	66	71	77	68	74	82	71	78	87
900	71	77	85	73	81	91	77	86	
1200	76	83		80					

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	71839150	DUST COVER FE 202-5/214-5	1
P01	70464441	PISTON MN2 S 118-1445-HC	1
P02	70209320 K	SLIDER MN 118 (2 x 1/2) A22	1
P03	70216118 K	OUTER STOPRING MN 118 A22	1
P04	70224118	BOTTOM PLATE PISTON MN 118	1
P05	01745051 K	CIRCLIP 108 DIN 472 (115.0x4.0)	1
P06	70260220 K	O-RING PISTON BOTTOM 118	1
P07	70235500	PISTON EYE SPH. MN 118 MK2 L=075	1
P08	70260120 K	O-RING 101.19 X 3.53 MM	1
P09	71875460 K	SPHERICAL BEARING D.60.3 MAINT. FREE	1
P10	01770580 K	CIRCLIP 90 DIN 472 (95.5x3.5)	1
P11	71875012	PIN ROUND HEAD GROOVED 8x15 mm	2

S41	70665440	STAGE MN2 137-1440	1
S42	70203137 K	PACKSET MN 137	1
S43	70207137 K	SLIDER MN 137 A35	1
S44	70216137 K	OUTER STOPRING MN 137 A22	1
S45	70217137 K	LIFTRING MN 137 A22	1

S31	70666440	STAGE MN2 157-1440	1
S32	70203157 K	PACKSET MN 157	1
S33	70207157 K	SLIDER MN 157 A35	1
S34	70216157 K	OUTER STOPRING MN 157 A22	1
S35	70213157 K	LIFTRING MN 157x5 MK2	1

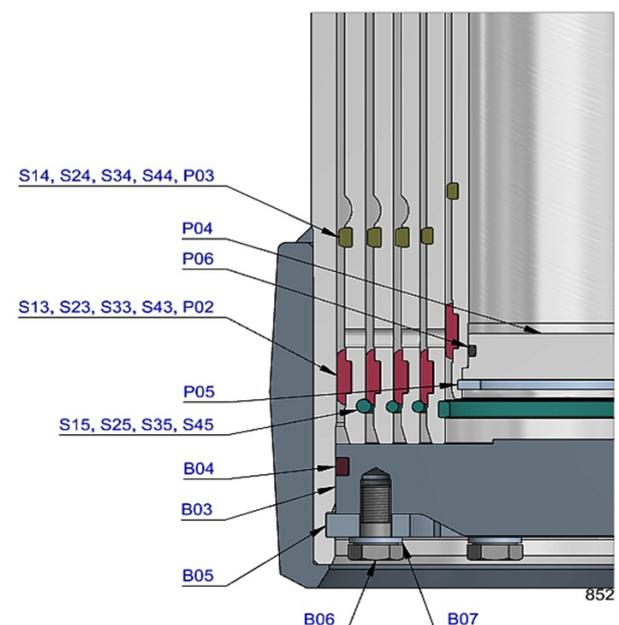
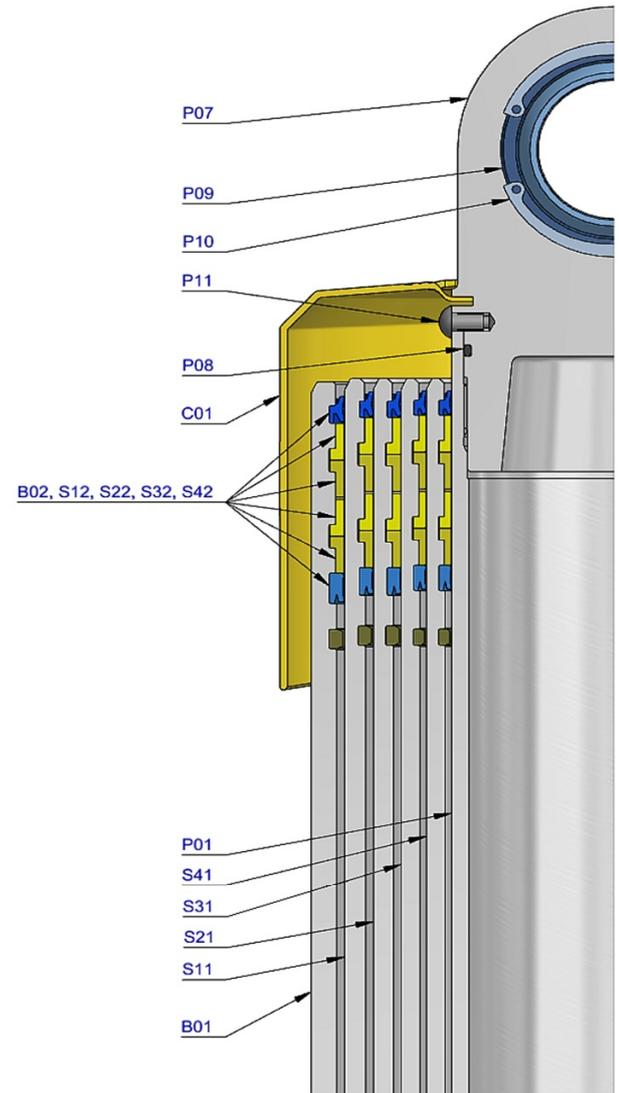
S21	70667440	STAGE MN2 179-1440	1
S22	70203179 K	PACKSET MN 179	1
S23	70207179 K	SLIDER MN 179 A35	1
S24	70216179 K	OUTER STOPRING MN 179 A22	1
S25	70213179 K	LIFTRING MN 179x5 MK2	1

S11	70668440	STAGE MN2 202-1440	1
S12	70203202 K	PACKSET MN 202	1
S13	70207202 K	SLIDER MN 202 A35	1
S14	70216202 K	OUTER STOPRING MN 202 A22	1
S15	70213202 K	LIFTRING MN 202x6 MK2	1

B01	70369440	BASE MN2 226-1491-4/4BSAE-190	1
B02	70203226 K	PACKSET MN 226	1
B03	70225370	BOTTOM PLATE MN2 226	1
B04	70270226 K	SEAL BOTTOM PLATE MN 226	1
B05	70220226	LOCKING PLATE MN2 226	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

	71907850 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.