

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

3D model is available on request or [www.hyva.com](http://www.hyva.com)

Specifications		Max. pump flow		Tipping time	
Max. working pressure	250 bar	With KO <sup>1</sup>	151 L/min	With KO <sup>1</sup>	27 sec
Weight	312 kg	Without KO <sup>1</sup>	106 L/min	Without KO <sup>1</sup>	39 sec
Working volume	69 L	With KO <sup>1</sup> below -20°C	106 L/min	With KO <sup>1</sup> below -20°C	39 sec
Total volume	76 L	Without KO <sup>1</sup> below -20°C	74 L/min	Without KO <sup>1</sup> below -20°C	56 sec
Max. cyl. load (start tipping)	205 kN			Allowable lowering time	22 sec
Max. cyl. load (end of stroke) <sup>2</sup>	123 kN				
Max. cyl. load (end of stroke) <sup>3</sup>	143 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.
- <sup>1</sup> Hyva knock-off.
- <sup>2</sup> Unsubstantial unloading (sticky load).
- <sup>3</sup> Substantial unloading.

Related documentation

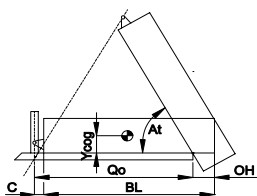
Bracket options:	015BRA10 & 015BRA12
Mounting instructions:	CYL-0030
Oil specifications:	OIL-0011
Spec sheet explanation:	CYL-0041

Configuration

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	157	137	118	99	80			6050
Stroke* [mm]	1185	1210	1215	1220	1220			

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 x 60 / Qo

BL [mm]	8100	800	7650	800	7200	800
OH [mm]	200	500	200	500	200	500
At [°]	44	46	47	49	50	52
Ycog [mm]	600	38	41	36	40	44
	35	41	39	43	42	48
	40	44	42			

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

Pos.	Part no.	Description	Qty.
C01	71839050	DUST COVER FC LOW 15-273	1
C02	71737484	COVER 273-1245 PIN60 A360 SPH LOCK	1
C03	01702956K	WASHER M48 DIN 125B ZP	1
C04	01702907K	TOPNUT NYLOC M48x3 DIN 985 ZP	1
C05	01791953	O-RING COVER D.273	1
C06	15014550K	BOLT HSHC M12X30X1.75 Q8.8 DIN 912 ZP	1
P01	70442441	PISTON MN3 S 080-1445-HD-HC	1
P02	70207080K	SLIDER MN 080 (2 x 1/2) A35	1
P03	70216080K	OUTER STOPRING MN 080 A22	2
P04	70230080	BOTTOM PLATE PISTON MN 080 MK2 HD	1
P05	01745030K	CIRCLIP 67 DIN 472 (71.5x2.5)	1
P06	70260210K	O-RING PISTON BOTTOM 080	1
P07	70232305	PISTON HEAD MN3 080	1
P08	70260110K	O-RING 63.09 X 3.53 MM	1

S41	70673441	STAGE MN2 099-1440-HD-HC	1
S42	70202099K	PACKSET MN 099 TANDEM SEAL	1
S43	70207099K	SLIDER MN 099 (2 x 1/2) A35	1
S44	70216099K	OUTER STOPRING MN 099 A22	2
S45	70217099K	LIFTRING MN 099 A22	1

S31	70674441	STAGE MN2 118-1440-HD-HC	1
S32	70202118K	PACKSET MN 118 TANDEM SEAL	1
S33	70207118K	SLIDER MN 118 (2 x 1/2) A35	1
S34	70216118K	OUTER STOPRING MN 118 A22	2
S35	70217118K	LIFTRING MN 118 A22	1

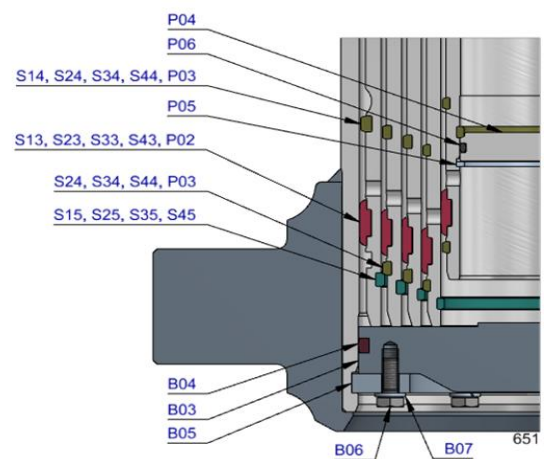
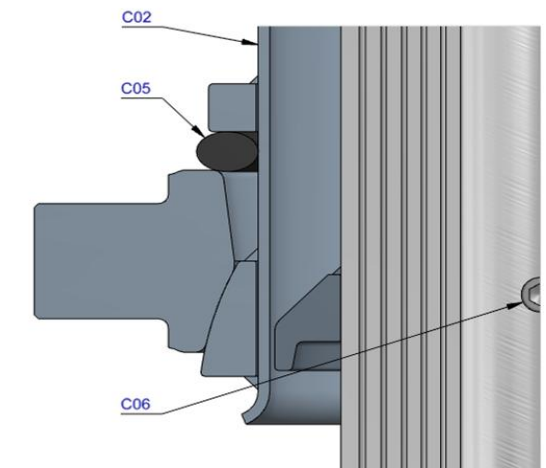
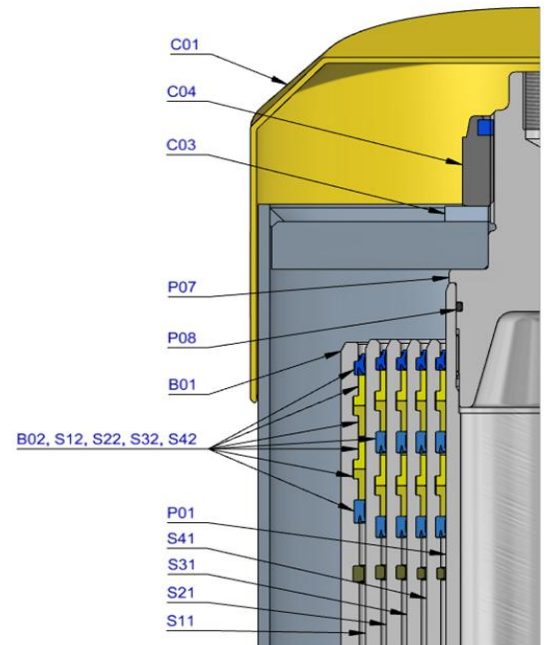
S21	70675441	STAGE MN2 137-1440-HD-HC	1
S22	70202137K	PACKSET MN 137 TANDEM SEAL	1
S23	70207137K	SLIDER MN 137 A35	1
S24	70216137K	OUTER STOPRING MN 137 A22	2
S25	70217137K	LIFTRING MN 137 A22	1

S11	70676441	STAGE MN2 157-1440-HD-HC	1
S12	70202157K	PACKSET MN 157 TANDEM SEAL	1
S13	70207157K	SLIDER MN 157 A35	1
S14	70216157K	OUTER STOPRING MN 157 A22	1
S15	70217157K	LIFTRING MN 157 A22	1

B01	70377441R1145	BASE MN2 179-1483-4/4BSAE-190-C273-HD	1
B02	70203179K	PACKSET MN 179	1
B03	70225360	BOTTOM PLATE MN2 179	1
B04	70270179K	SEAL BOTTOM PLATE MN 179	1
B05	70220185	LOCKING PLATE MN2 179	3
B06	01732055K	BOLT HEX M8X20X1.25 SET 6 PCS	1
B07	01732559K	WASHER SPRING M8 SET 6 PCS	1

Seal kit complete

71907651K	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.