

Specifications

Max. working pressure	250 bar
Weight	249 kg
Working volume	89 L
Total volume	96 L
Max. cyl. load (start tipping)	440 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	24 sec
Without KO ¹	28 sec
With KO ¹ below -20°C	34 sec
Without KO ¹ below -20°C	40 sec
Allowable lowering time	19 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	179	157	137	118				5085
Stroke* [mm]	1250	1275	1280	1280				

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.

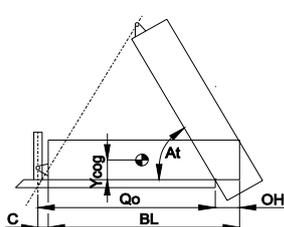
Related documentation

Bracket options: 015BRA10 & 015BRA13

Mounting instructions: CYL-0031

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

Tipping weight



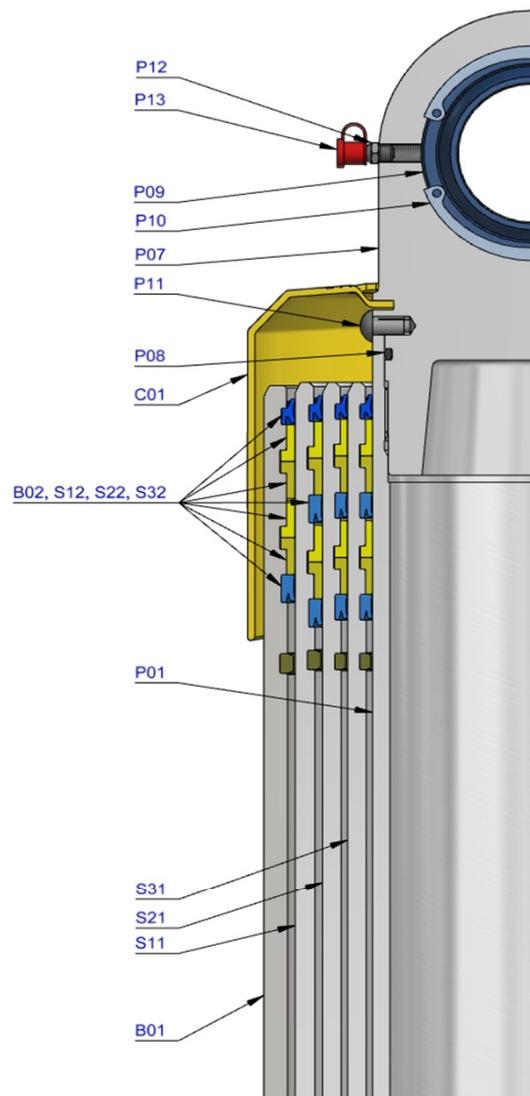
BL	body length
OH	rear overhang
Ycog	vert. pos. centre of gravity
Qo	pivot length
C	bracket length
At	tipping angle
	stroke x 60 / Qo

BL [mm]	6700			6500			6300		
OH [mm]	200	500	800	200	500	800	200	500	800
At [°]	46	48	51	47	50	53	49	52	55
Ycog [mm]									
600	75	83	93	77	85	96	79	88	
900	81	91		84	94		86	98	
1200	88			91					

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	70474511	PISTON MN2 S 118-1515-HD-HC	1
P02	70207118 K	SLIDER MN 118 (2 x 1/2) A35	1
P03	70216118 K	OUTER STOPRING MN 118 A22	2
P04	70230118	BOTTOM PLATE PISTON MN 118 MK2 HD	1
P05	01745024 K	CIRCLIP 105 DIN 472 (112x4.0)	1
P06	70260220 K	O-RING PISTON BOTTOM 118	1
P07	70235501	PISTON EYE SPH. MN 118 MK2 L=075 GR	1
P08	70260120 K	O-RING 101.19 X 3.53 MM	1
P09	01770090 K	SPHERICAL BEARING D.60 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

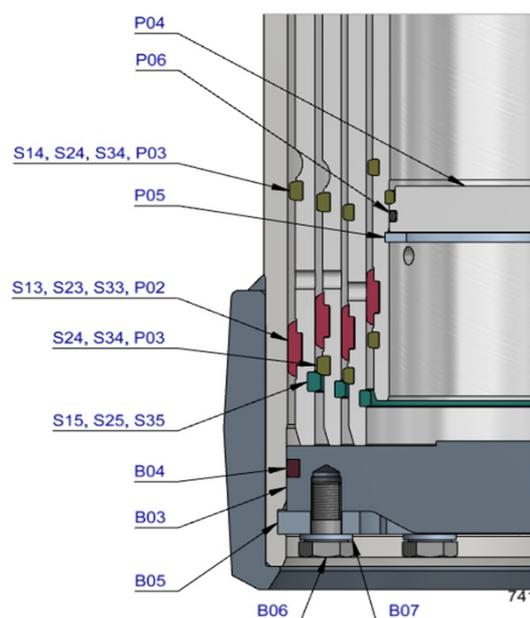


S31	70675510	STAGE MN2 137-1510-HD	1
S32	70202137 K	PACKSET MN 137 TANDEM SEAL	1
S33	70207137 K	SLIDER MN 137 A35	1
S34	70216137 K	OUTER STOPRING MN 137 A22	2
S35	70217137 K	LIFTRING MN 137 A22	1

S21	70676510	STAGE MN2 157-1510-HD	1
S22	70202157 K	PACKSET MN 157 TANDEM SEAL	1
S23	70207157 K	SLIDER MN 157 A35	1
S24	70216157 K	OUTER STOPRING MN 157 A22	2
S25	70217157 K	LIFTRING MN 157 A22	1

S11	70677510	STAGE MN2 179-1510-HD	1
S12	70202179 K	PACKSET MN 179 TANDEM SEAL	1
S13	70207179 K	SLIDER MN 179 A35	1
S14	70216179 K	OUTER STOPRING MN 179 A22	1
S15	70217179 K	LIFTRING MN 179 A22	1

B01	70378514	BASE MN2 202-1561-4/4BSAE-290-HD	1
B02	70203202 K	PACKSET MN 202	1
B03	70225365	BOTTOM PLATE MN2 202	1
B04	70270202 K	SEAL BOTTOM PLATE MN 202	1
B05	70220205	LOCKING PLATE MN2 202	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

	71907741 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.