

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

3D model is available on request or www.hyva.com

Specifications		Max. pump flow		Tipping time	
Max. working pressure	135 bar	With KO ¹	190 L/min	With KO ¹	42 sec
Weight	346 kg	Without KO ¹	170 L/min	Without KO ¹	47 sec
Working volume	133 L	With KO ¹ below -20°C	133 L/min	With KO ¹ below -20°C	60 sec
Total volume	144 L	Without KO ¹ below -20°C	119 L/min	Without KO ¹ below -20°C	67 sec
Max. cyl. load (start tipping)	440 kN			Allowable lowering time	42 sec
Max. cyl. load (end of stroke) ²	99 kN				
Max. cyl. load (end of stroke) ³	115 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.
- ¹ Hyva knock-off.
- ² Unsubstantial unloading (sticky load).
- ³ Substantial unloading.

Related documentation

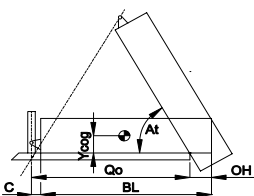
Bracket options:	015BRA10 & 015BRA13
Mounting instructions:	CYL-0031
Oil specifications:	OIL-0011
Spec sheet explanation:	CYL-0041

Configuration

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	179	157	137	118				7620
Stroke* [mm]	1890	1910	1910	1910				

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]	10000			9800			9600		
OH [mm]	200	500	800	200	500	800	200	500	800
At [°]	46	47	49	47	49	50	48	50	52
Ycog [mm]									
600	38	40	43	39	41	43	39	41	44
900	40	42	45	40	43	46	41	44	47
1200	42	45	48	43	46	49	43	47	51

Tipping weight [ton] at maximum pressure of 135 bar for a vertically mounted cylinder and C is 158 mm

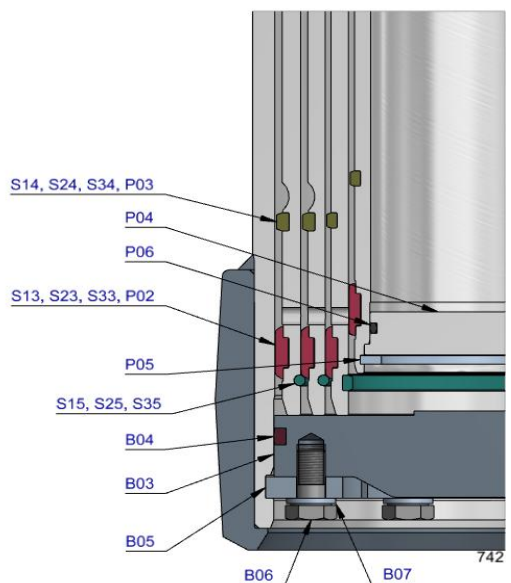
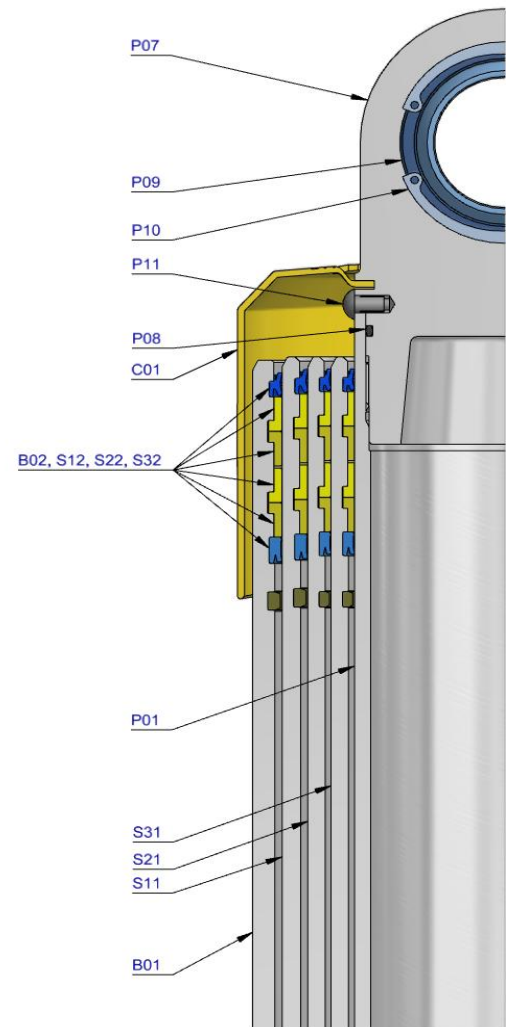
Pos.	Part no.	Description	Qty.
C01	71839133	DUST COVER FE 179-4/191-4	1
P01	70434921	PISTON MN3 S 118-2195-HC	1
P02	70209320K	SLIDER MN 118 (2 x 1/2) A22	1
P03	70216118K	OUTER STOPRING MN 118 A22	1
P04	70224118	BOTTOM PLATE PISTON MN 118	1
P05	01745051K	CIRCLIP 108 DIN 472 (115.0x4.0)	1
P06	70260220K	O-RING PISTON BOTTOM 118	1
P07	70235500	PISTON EYE SPH. MN3 118 L=075 B=60	1
P08	70260120K	O-RING 101.19 X 3.53 MM	1
P09	71875460K	SPHERICAL BEARING D.60.3 MAINT. FREE	1
P10	01770580K	CIRCLIP 90 DIN 472 (95.5x3.5)	1
P11	71875012	PIN ROUND HEAD GROOVED 8x15 mm DIN 14	2

S31	70665920	STAGE MN2 137-2190	1
S32	70203137K	PACKSET MN 137	1
S33	70207137K	SLIDER MN 137 A35	1
S34	70216137K	OUTER STOPRING MN 137 A22	1
S35	70217137K	LIFTRING MN 137 A22	1

S21	70666920	STAGE MN2 157-2190	1
S22	70203157K	PACKSET MN 157	1
S23	70207157K	SLIDER MN 157 A35	1
S24	70216157K	OUTER STOPRING MN 157 A22	1
S25	70213157K	LIFTRING MN 157x5 MK2	1

S11	70667920	STAGE MN2 179-2190	1
S12	70203179K	PACKSET MN 179	1
S13	70207179K	SLIDER MN 179 A35	1
S14	70216179K	OUTER STOPRING MN 179 A22	1
S15	70213179K	LIFTRING MN 179x5 MK2	1

B01	70368928	BASE MN2 202-2241-4/4BSAE-700	1
B02	70203202K	PACKSET MN 202	1
B03	70225365	BOTTOM PLATE MN2 202	1
B04	70270202K	SEAL BOTTOM PLATE MN 202	1
B05	70220205	LOCKING PLATE MN2 202	3
B06	01732020K	BOLT HEX M12X25X1.25 SET 6 PCS	1
B07	01732523K	WASHER SPRING M12 SET 6 PCS	1



Seal kit complete

71907740K	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.