

Specifications

Max. working pressure	220 bar
Weight	214 kg
Working volume	72 L
Total volume	78 L
Max. cyl. load (start tipping)	345 kN
Max. cyl. load (end of stroke) ²	118 kN
Max. cyl. load (end of stroke) ³	138 kN

Max. pump flow

With KO ¹	190 L/min
Without KO ¹	162 L/min
With KO ¹ below -20°C	133 L/min
Without KO ¹ below -20°C	113 L/min

Tipping time

With KO ¹	23 sec
Without KO ¹	27 sec
With KO ¹ below -20°C	33 sec
Without KO ¹ below -20°C	39 sec
Allowable lowering time	23 sec

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	157	137	118	99				5460
Stroke* [mm]	1350	1370	1370	1370				

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.

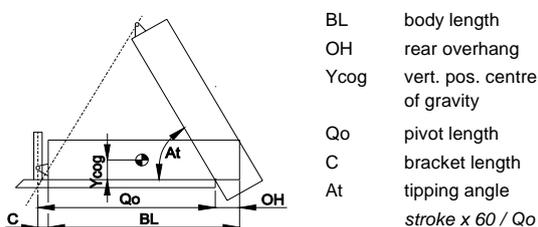
Related documentation

Bracket options: 015BRA10 & 015BRA13

Mounting instructions: CYL-0031

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

Tipping weight



BL [mm]	7200			6950			6700		
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	55	47	52	58	48	53	60
900	49	54	61	51	57	65	53	59	69
1200	53	59	68	55	63	74	58	67	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>

Alpha series - Front end cylinder with single eye

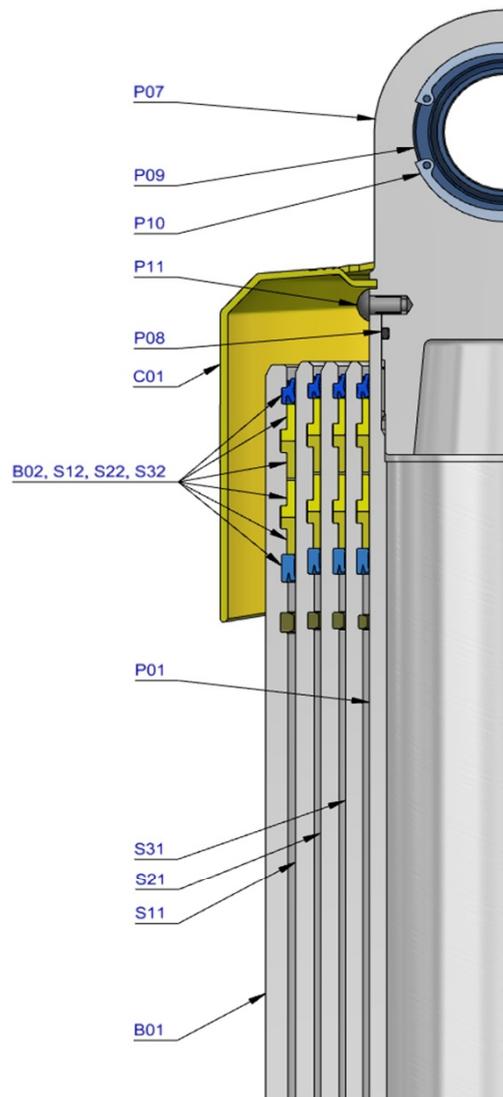


FE A157-4-05460-011-K1669

Item no.

70146420

Pos.	Part no.	Description	Qty.
C01	71839121	DUST COVER FE 149-4/157-4	1
P01	70463581	PISTON MN2 S 099-1585-HC	1
P02	70209310 K	SLIDER MN 099 (2 x 1/2) A22	1
P03	70216099 K	OUTER STOPRING MN 099 A22	1
P04	70224099	BOTTOM PLATE PISTON MN 099	1
P05	01770580 K	CIRCLIP 90 DIN 472 (95.5x3.5)	1
P06	70260215 K	O-RING PISTON BOTTOM 099	1
P07	70235400	PISTON EYE SPH. MN 099 MK2 L=075	1
P08	70260115 K	O-RING 82.14 X 3.53 MM	1
P09	71875450 K	SPHERICAL BEARING D.50 MAINT. FREE	1
P10	01770560 K	CIRCLIP 75 DIN 472 (79.5x3.0)	1
P11	71875012	PIN ROUND HEAD GROOVED 8x15 mm	2

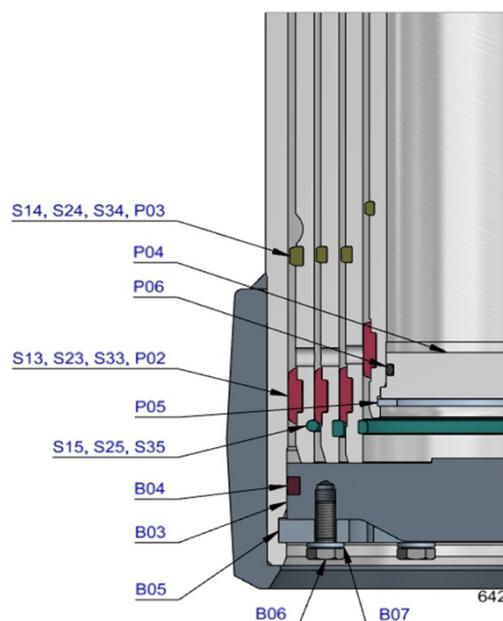


S31	70664580	STAGE MN2 118-1580	1
S32	70203118 K	PACKSET MN 118	1
S33	70209320 K	SLIDER MN 118 (2 x 1/2) A22	1
S34	70216118 K	OUTER STOPRING MN 118 A22	1
S35	70217118 K	LIFTRING MN 118 A22	1

S21	70665580	STAGE MN2 137-1580	1
S22	70203137 K	PACKSET MN 137	1
S23	70207137 K	SLIDER MN 137 A35	1
S24	70216137 K	OUTER STOPRING MN 137 A22	1
S25	70217137 K	LIFTRING MN 137 A22	1

S11	70666580	STAGE MN2 157-1580	1
S12	70203157 K	PACKSET MN 157	1
S13	70207157 K	SLIDER MN 157 A35	1
S14	70216157 K	OUTER STOPRING MN 157 A22	1
S15	70213157 K	LIFTRING MN 157x5 MK2	1

B01	70367584	BASE MN2 179-1623-4/4BSAE-290	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

	71907640 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.

For repair instructions see: CYL-0040. Serial no. is located on type plate and near type plate support.