

* 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	220 bar	With KO ¹	190 L/min	With KO ¹	23 sec
Weight	215 kg	Without KO ¹	162 L/min	Without KO ¹	27 sec
Working volume	73 L	With KO ¹ below -20°C	133 L/min	With KO ¹ below -20°C	33 sec
Total volume	79 L	Without KO ¹ below -20°C	113 L/min	Without KO ¹ below -20°C	39 sec
Max. cyl. load (start tipping)	345 kN			Allowable lowering time	23 sec
Max. cyl. load (end of stroke) ²	119 kN				
Max. cyl. load (end of stroke) ³	139 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

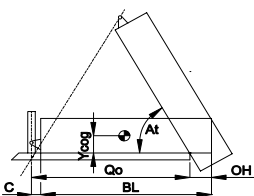
Bracket options:	O15BRA10
Mounting instructions:	CYL-0031
Oil specifications:	OIL-0011
Spec sheet explanation:	CYL-0041

Configuration

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	157	137	118	99				5540
Stroke* [mm]	1370	1390	1390	1390				

Tipping weight

For detailed tipping calculations please refer to: <https://tipper.hyva.com>

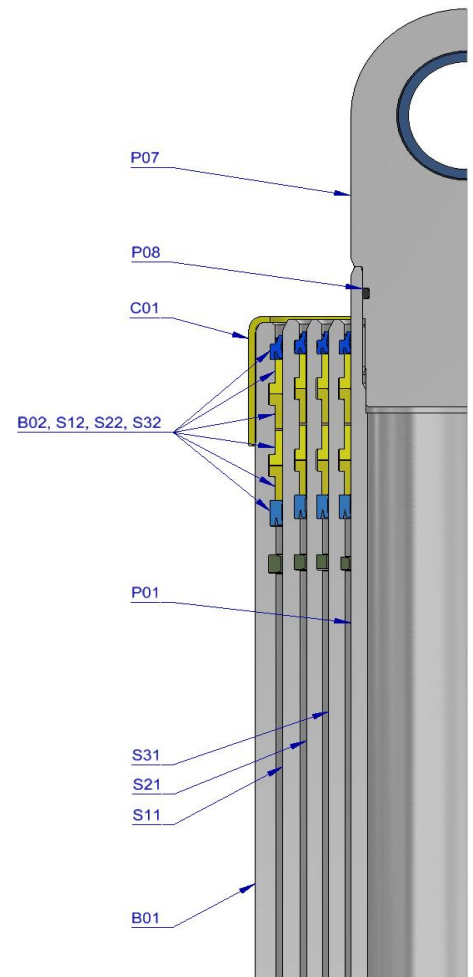


BL body length
OH rear overhang
Ycog vert. pos. centre of gravity
Qo pivot length
C bracket length
At tipping angle
stroke x 60 / Qo

BL [mm]	7300			7050			6800		
OH [mm]	200	500	800	200	500	800	200	500	800
At [°]	46	48	50	48	50	53	49	52	55
Ycog [mm]	600			500			400		
	46	50	55	47	51	57	48	53	60
	49	54	61	51	56	64	52	59	68
	53	59	68	55	62	73	57	66	79

Tipping weight [ton] at maximum pressure of 220 bar for a vertically mounted cylinder and C is 158 mm

Pos.	Part no.	Description	Qty.
C01	70233040	DUST RING MN2 157	1
P01	70493583	PISTON MN3 S 099-1585-HC (V+SR=74)	1
P02	70209310K	SLIDER MN 099 (2 x 1/2) A22	1
P03	70216099K	OUTER STOPRING MN 099 A22	1
P04	70224099	BOTTOM PLATE PISTON MN 099	1
P05	01770580K	CIRCLIP 90 DIN 472 (95.5x3.5)	1
P06	70260215K	O-RING PISTON BOTTOM 099	1
P07	70235420	PISTON EYE SOLID MN3 099 L=70 H=50 WD=5	1
P08	70260115K	O-RING 82.14 X 3.53 MM	1

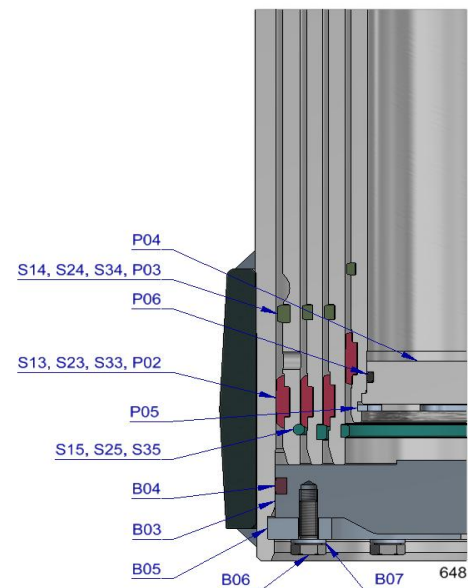


S31	70694580	STAGE MN2 118-1580 (V+SR=74)	1
S32	70203118K	PACKSET MN 118	1
S33	70209320K	SLIDER MN 118 (2 x 1/2) A22	1
S34	70216118K	OUTER STOPRING MN 118 A22	1
S35	70217118K	LIFTRING MN 118 A22	1

S21	70695580	STAGE MN2 137-1580 (V+SR=74)	1
S22	70203137K	PACKSET MN 137	1
S23	70207137K	SLIDER MN 137 A35	1
S24	70216137K	OUTER STOPRING MN 137 A22	1
S25	70217137K	LIFTRING MN 137 A22	1

S11	70696580	STAGE MN2 157-1580 (V+SR=74)	1
S12	70203157K	PACKSET MN 157	1
S13	70207157K	SLIDER MN 157 A35	1
S14	70216157K	OUTER STOPRING MN 157 A22	1
S15	70213157K	LIFTRING MN 157x5 MK2	1

B01	70367592	BASE MN2 179-1623-4/4BSAE-N1553-V0700	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

71907640K	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.