

* 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	250 bar	With KO ¹	122 L/min	With KO ¹	10 sec
Weight	100 kg	Without KO ¹	86 L/min	Without KO ¹	15 sec
Working volume	21 L	With KO ¹ below -20°C	85 L/min	With KO ¹ below -20°C	14 sec
Total volume	24 L	Without KO ¹ below -20°C	60 L/min	Without KO ¹ below -20°C	21 sec
Max. cyl. load (start tipping)	195 kN			Allowable lowering time	8 sec
Max. cyl. load (end of stroke) ²	100 kN				
Max. cyl. load (end of stroke) ³	117 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

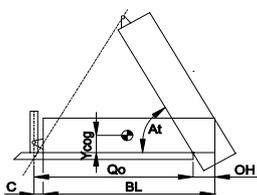
- Bracket options: 015BRA10 & 015BRA13
- Mounting instructions: CYL-0031
- Oil specifications: OIL-0011
- Spec sheet explanation: CYL-0041

Configuration

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	110	91	72					3150
Stroke* [mm]	1035	1060	1055					

Tipping weight

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

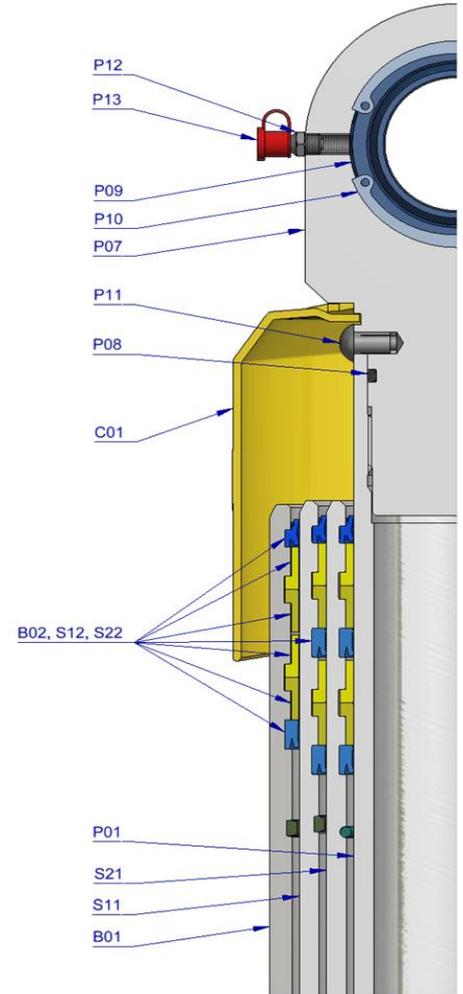


- BL body length
 - OH rear overhang
 - Ycog vert. pos. centre of gravity
 - Qo pivot length
 - C bracket length
 - At tipping angle
- $stroke \times 60 / Qo$

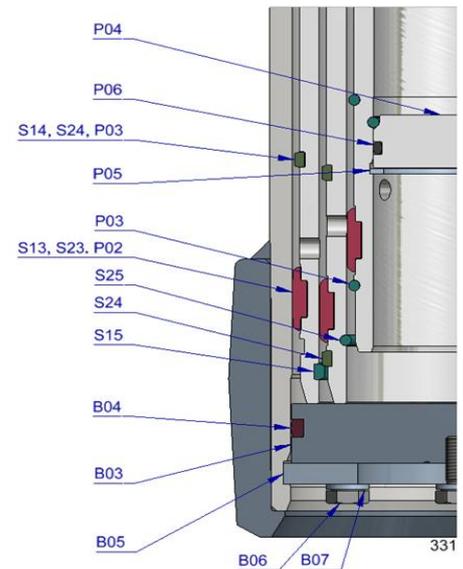
BL [mm]	200	4200	600	200	4100	600	200	4000	600
OH [mm]	46	48	51	47	50	53	48	51	55
Ycog [mm]	28	31	35	28	31	35	29	32	37
C	28	31	35	28	31	35	29	32	37
At [°]	31	35	41	32	36	43	32	37	45
	35	41		36	43		37	45	

Tipping weight [ton] at maximum pressure of 250 bar for a vertically mounted cylinder and C is 158 mm

Pos.	Part no.	Description	Qty.
C01	71839100	DUST COVER FE 110-3/118-3	1
P01	74471321	PISTON FL3 S 072-1315-HD-HC	1
P02	71807074K	SLIDER FL 072 (2 X 1/2) A35	1
P03	71811076K	OUTER STOPRING FL 072x4	2
P04	71822700	BOTTOM PLATE PISTON FL 072 MK2 HD	1
P05	01745010K	CIRCLIP 58 DIN 472 (62.2x2.0)	1
P06	71870210K	O-RING PISTON BOTTOM 072	1
P07	71847101	PISTON EYE SPH. FL3 072 L=075 GR	1
P08	01226420K	O-RING 53.57 X 3.53 MM	1
P09	01770085K	SPHERICAL BEARING D.50.3 DO GREASED	1
P10	01770560K	CIRCLIP 75 DIN 472 (79.5x2.5)	1
P11	71875012	PIN ROUND HEAD GROOVED 8x15 mm	2
P12	56288044K	GREASE NIPPLE M8x1 DIN 71412	1
P13	01317670K	GREASER PROTECTION CAP	1



S21	74612301	STAGE FL2 091-1275-HD-HC	1
S22	71808091K	PACKSET FL 091 TANDEM SEAL	1
S23	71807093K	SLIDER FL 091 (2 X 1/2) A35	1
S24	71851091K	OUTER STOPRING FL 091 A22	2
S25	71810095K	INNER STOPRING/LIFTRING FL 091x4	2
S11	74613301	STAGE FL2 110-1275-HD-HC	1
S12	71808110K	PACKSET FL 110/HP 110 TANDEM SEAL	1
S13	71807112K	SLIDER FL 110 (2 X 1/2) A35	1
S14	71851110K	OUTER STOPRING FL 110 A22	1
S15	71852110K	LIFTRING FL 110 A22	1
B01	74514300	BASE FL2 129-1314-4/4BSAE-190-HD	1
B02	71802129K	PACKSET FL 129/HP 129	1
B03	71825415	BOTTOM PLATE FL2 129	1
B04	71870025K	O-RING BOTTOM PLATE FL 129	1
B05	71820129	LOCKING PLATE FL 129	3
B06	01732055K	BOLT HEX M8X20X1.25 SET 3 PCS	1
B07	01732559K	WASHER SPRING M8 SET 3 PCS	1



Seal kit complete

71908331K	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.