

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

3D model is available on request or [www.hyva.com](http://www.hyva.com)

Specifications		Max. pump flow		Tipping time	
Max. working pressure	280 bar	With KO <sup>1</sup>	70 L/min	With KO <sup>1</sup>	27 sec
Weight	106 kg	With KO <sup>1</sup> below -20°C	49 L/min	With KO <sup>1</sup> below -20°C	39 sec
Working volume	31 L			Allowable lowering time	27 sec
Total volume	33 L				
Max. cyl. load (start tipping)	330 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. • Cylinder is painted black (RAL9005) with a min. thickness conforming to the 480 hours neutral salt spray test as per ISO 9227. • <sup>1</sup> (Hyva) knock-off is required.

Related documentation

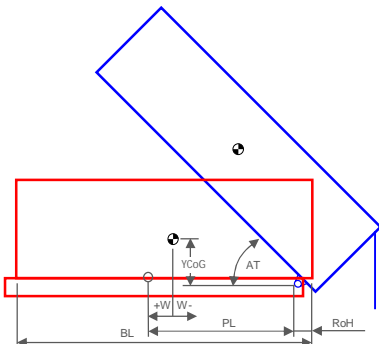
Cradle and bracket options:	015BRA19
Inlet adapters:	HPADAPO2
Mounting instructions:	CYL-0043
Oil specifications:	OIL-0011
Spec sheet explanation:	CYL-0041

Configuration

Extension	1	2	3	4	5	6	7	8	9	10	11	Total
Effective diameter [mm]	191	169	149	129	110	93	77					2131
Stroke* [mm]	280	301	309	309	310	312	310					

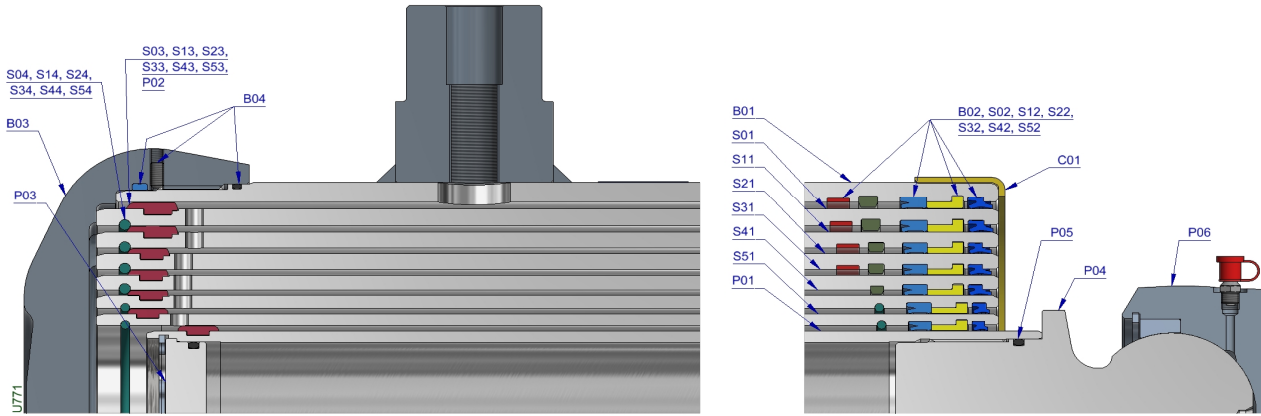
Tipping weight

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



BL	body length [mm]		6800		6450		6100					
W	cyl. w.r.t. CoG [mm]	0	100	200	0	100	200	0	100	200		
PL	pivot length [mm]	2700	2800	2900	2525	2625	2725	2350	2450	2550		
ROH	rear overhang [mm]		200			200			200			
YCOG	vert. pos. CoG [mm]		700			700			700			
At	tip. angle full stroke	47	46	44	51	49	47	54	52	50		
At	tip. angle at stage 93	40	39	38	44	42	40	46	45	43		
	tipping weight	27	27	28	29	29	29	30	31	31		

Tipping weight [ton] at maximum pressure of 280 bar for a vertically mounted cylinder.



Pos.	Part no.	Description	Qty.
P01	73426441	PISTON UH 077-0395-HC	1
P02	73203077K	SLIDER UL 077 (2 X 1/2) A35 L=18	1
P03	73202230	BOTTOM PLATE SET PISTON UL / UH 077	1
P04	73202030	SPHERE UH 75 FOR PISTON 077 FLANGED	1
P05	70260110K	O-RING 63.09 X 3.53 MM NBR 70 SHORE	1
P06	73202317K	RETAINER KIT UH SPH75	1

Pos.	Part no.	Description	Qty.
S41	73624441	STAGE UH 110-0398-HC	1
S42	73207110	PACKSET UH 110	1
S43	73203110	SLIDER UL 110 (2 X 1/2) A22-A35 L=18	1
S44	73110110	INNER STOPRING/LIFTRING UL 110	1

S31	73625441	STAGE UH 129-0398-HC	1
S32	73207129	PACKSET UH 129	1
S33	73203129	SLIDER FL 129 (2 X 1/2) A22-A35 L=18	1
S34	73110129	INNER STOPRING/LIFTRING UL 129	1

S21	73626441	STAGE UH 149-0398-HC	1
S22	73207149	PACKSET UH 149	1
S23	73203149	SLIDER FL 149 A22-A35 L=18.3	1
S24	73110149	INNER STOPRING/LIFTRING UL 149	1

S11	73627441	STAGE UH 169-0398-HC	1
S12	73207169	PACKSET UH 169	1
S13	73203169	SLIDER FL 169 A22-A35 L=22.5	1
S14	71813169	LIFTRING FL 169x5	1

S01	73628441	STAGE UH 191-0398-HC	1
S02	73207191	PACKSET UH 191	1
S03	73203191	SLIDER FL 191 A22-A35 L=22.5	1
S04	71813191	LIFTRING FL 191x5	1

B01	73527430	BASE UH 214-0389-N0230	1
B02	73207214	PACKSET UH 214	1
B03	73201214	THREADED BOTTOM UH 214	1
B04	73201714K	REPAIR KIT THREADED BOTTOM UH 214	1

S51	73623441	STAGE UH 093-0398-HC	1
S52	73207093	PACKSET UH 093	1
S53	73203093	SLIDER UL 093 (2 X 1/2) A35 L=18	1
S54	73110093	INNER STOPRING/LIFTRING UL 093	1

C01	71838997	DUST COVER UM 191	1
-----	----------	-------------------	---

**Seal kit complete**

73208067K	Consists of all packsets with packset grease and O-rings
-----------	--

**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-0044. Serial no. is located on type plate and above or below trunnion at inlet side.