

* 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	280 bar	With KO ¹	70 L/min	With KO ¹	17 sec
Weight	75 kg	With KO ¹ below -20°C	49 L/min	With KO ¹ below -20°C	24 sec
Working volume	20 L			Allowable lowering time	17 sec
Total volume	21 L				
Max. cyl. load (start tipping)	250 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. • ¹ (Hyva) knock-off is required.

Related documentation

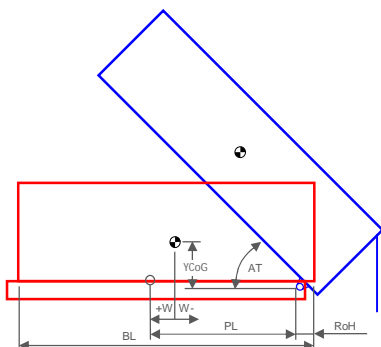
Cradle and bracket options:	015BRA19
Inlet adapters:	HPADAP02
Mounting instructions:	CYL-0043
Oil specifications:	OIL-0011
Spec sheet explanation:	CYL-0041

Configuration

Extension	1	2	3	4	5	6	7	8	9	10	11	Total
Effective diameter [mm]	169	149	129	110	93	77						1618
Stroke* [mm]	245	273	273	274	276	277						

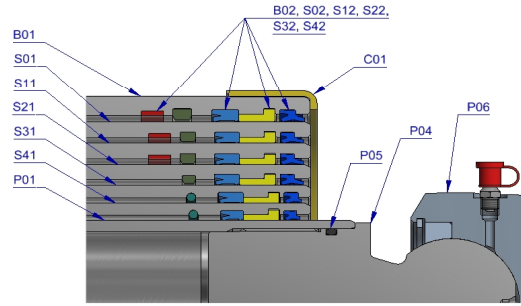
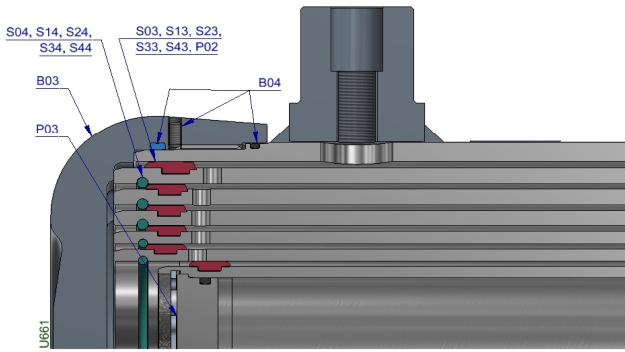
Tipping weight

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



BL	body length [mm]		5000		4750		4500					
W	cyl. w.r.t. CoG [mm]	0	100	200	0	100	200	0	100	200		
PL	pivot length [mm]	2000	2100	2200	1875	1975	2075	1750	1850	1950		
ROH	rear overhang [mm]		200			200			200			
YCOG	vert. pos. CoG [mm]		500			500			500			
At	tip. angle full stroke	49	46	44	52	49	47	55	52	50		
At	tip. angle at stage 93	41	38	37	43	41	39	46	43	42		
	tipping weight	25	25	25	25	25	25	25	25	25		

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



Pos.	Part no.	Description	Qty.
P01	73426281	PISTON UH 077-0362-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	73202035	SPHERE UH 60 FOR PISTON 077	1
P05	70260110K	O-RING 63.09 X 3.53 MM NBR 70 SHORE	1
P06	73202311K	RETAINER KIT UH SPH60	1

Pos.	Part no.	Description	Qty.
S41	73623281	STAGE UH 093-0362-HC	1
S42	73207093	PACKSET UH 093	1
S43	73203093	SLIDER UL 093 (2 X 1/2) A35 L=18	1
S44	73110093	INNER STOPRING/LIFTRING UL 093	1

S31	73624281	STAGE UH 110-0362-HC	1
S32	73207110	PACKSET UH 110	1
S33	73203110	SLIDER UL 110 (2 X 1/2) A22-A35 L=18	1
S34	73110110	INNER STOPRING/LIFTRING UL 110	1

S21	73625281	STAGE UH 129-0362-HC	1
S22	73207129	PACKSET UH 129	1
S23	73203129	SLIDER FL 129 (2 X 1/2) A22-A35 L=18	1
S24	73110129	INNER STOPRING/LIFTRING UL 129	1

S11	73626281	STAGE UH 149-0362-HC	1
S12	73207149	PACKSET UH 149	1
S13	73203149	SLIDER FL 149 A22-A35 L=18.3	1
S14	73110149	INNER STOPRING/LIFTRING UL 149	1

S01	73627281	STAGE UH 169-0362-HC	1
S02	73207169	PACKSET UH 169	1
S03	73203169	SLIDER FL 169 A22-A35 L=22.5	1
S04	71813169	LIFTRING FL 169x5	1

B01	73526440	BASE UH 191-0353-N0243	1
B02	73207191	PACKSET UH 191	1
B03	73201191	THREADED BOTTOM UH 191	1
B04	73201691K	REPAIR KIT THREADED BOTTOM UH 191	1

C01	71838996	DUST COVER UM 169	1
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Seal kit complete

73208056K	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-0044. Serial no. is located on type plate and above or below trunnion at inlet side.