

* 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	170 L/min	With KO ¹	28 sec
Weight	268 kg	Without KO ¹	119 L/min	Without KO ¹	39 sec
Working volume	78 L	With KO ¹ below -20°C	119 L/min	With KO ¹ below -20°C	40 sec
Total volume	82 L	Without KO ¹ below -20°C	83 L/min	Without KO ¹ below -20°C	56 sec
Max. cyl. load (start tipping)	245 kN			Allowable lowering time	27 sec
Max. cyl. load (end of stroke) ²	132 kN				
Max. cyl. load (end of stroke) ³	154 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 grey (DB7350) 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. • 50 mm clearance required between the headboard and the stages at end of stroke (deviation from CYL-0031).

Related documentation

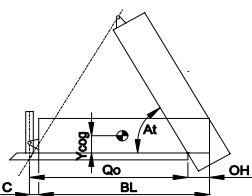
Bracket options:	015BRA10 & 015BRA13
Mounting instructions:	CYL-0031
Oil specifications:	OIL-0011
Spec sheet explanation:	CYL-0041

Configuration

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	169	149	129	110	85			
Stroke* [mm]	1150	1170	1170	1170	970			5630

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]	7500			7200			6900		
OH [mm]	200	500	800	200	500	800	200	500	800
At [°]	45	47	49	47	49	52	49	52	55
Ycog [mm]									
600	39	43	47	41	44	50	42	47	53
900	42	47	52	44	49	56	46	52	
1200	46	51		48	55		51		

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	75100763	LIFTING KIT SCHMITZ FE	1
P01	74482375	PISTON FL3 S 085-1375-HC (SR=200)	1
P02	71853085K	SLIDER FL 085 (2 X 1/2) A22	1
P03	71851085K	OUTER STOPRING FL 085 A22	1
P04	75322085	BOTTOM PLATE PISTON 085	1
P05	01770560K	CIRCLIP 75 DIN 472 (79.5x2.5)	1
P06	75372085K	O-RING 63.50 X 3.53 MM NBR 70 SHORE	1
P07	71848151	PISTON PLATE FL3 085	1
P08	01225807K	O-RING 66.27 X 3.53 MM NBR 70 SHORE	1

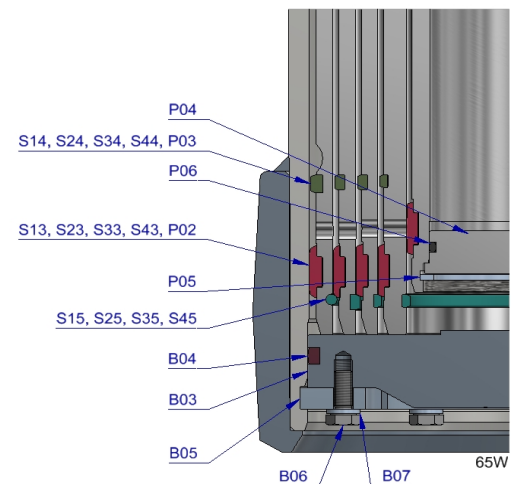
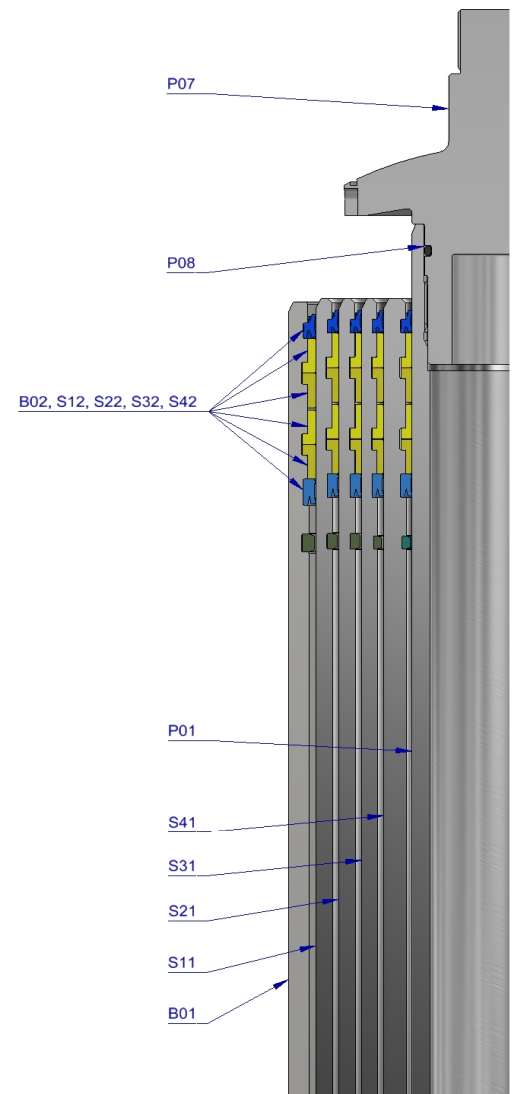
S41	74633370	STAGE FL2 110-1360 ID90	1
S42	75302110K	PACKSET HP 110	1
S43	71853110K	SLIDER FL 110 (2 X 1/2) A22	1
S44	71851110K	OUTER STOPRING FL 110 A22	1
S45	71850111K	INNER STOPRING/LIFTRING FL 110 ID 90 A22	1

S31	74604370	STAGE FL2 129-1360	1
S32	71802129K	PACKSET FL 129/HP 129	1
S33	71853129K	SLIDER FL 129 (2 X 1/2) A22	1
S34	71851129K	OUTER STOPRING FL 129 A22	1
S35	71852129K	LIFTRING FL 129 A22	1

S21	74605370	STAGE FL2 149-1360	1
S22	71802149K	PACKSET FL 149/HP 150	1
S23	71807151K	SLIDER FL 149 A35	1
S24	71851149K	OUTER STOPRING FL 149 A22	1
S25	71852149K	LIFTRING FL 149 A22	1

S11	74606370	STAGE FL2 169-1360	1
S12	71802169K	PACKSET FL 169	1
S13	71807171K	SLIDER FL 169 A35	1
S14	71851169K	OUTER STOPRING FL 169 A22	1
S15	71813169K	LIFTRING FL 169x5	1

B01	74507384	BASE FL2 191-1403-4/4BSAE-190-P290	1
B02	71802191K	PACKSET FL 191	1
B03	71825430	BOTTOM PLATE FL2 191	1
B04	71870040K	SEAL BOTTOM PLATE FL 191	1
B05	71820195	LOCKING PLATE FL2 191	3
B06	01732055K	BOLT HEX M8X20X1.25 SET 6 PCS	1
B07	01732559K	WASHER SPRING M8 SET 6 PCS	1



Seal kit complete

71908652K	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-0040. Serial no. is located on type plate and near type plate support.