

HYVA CYLINDER



715 05 404

Front end cylinder with outer cover

type

FC 149-4-05180-070A-K0343

tipping weight

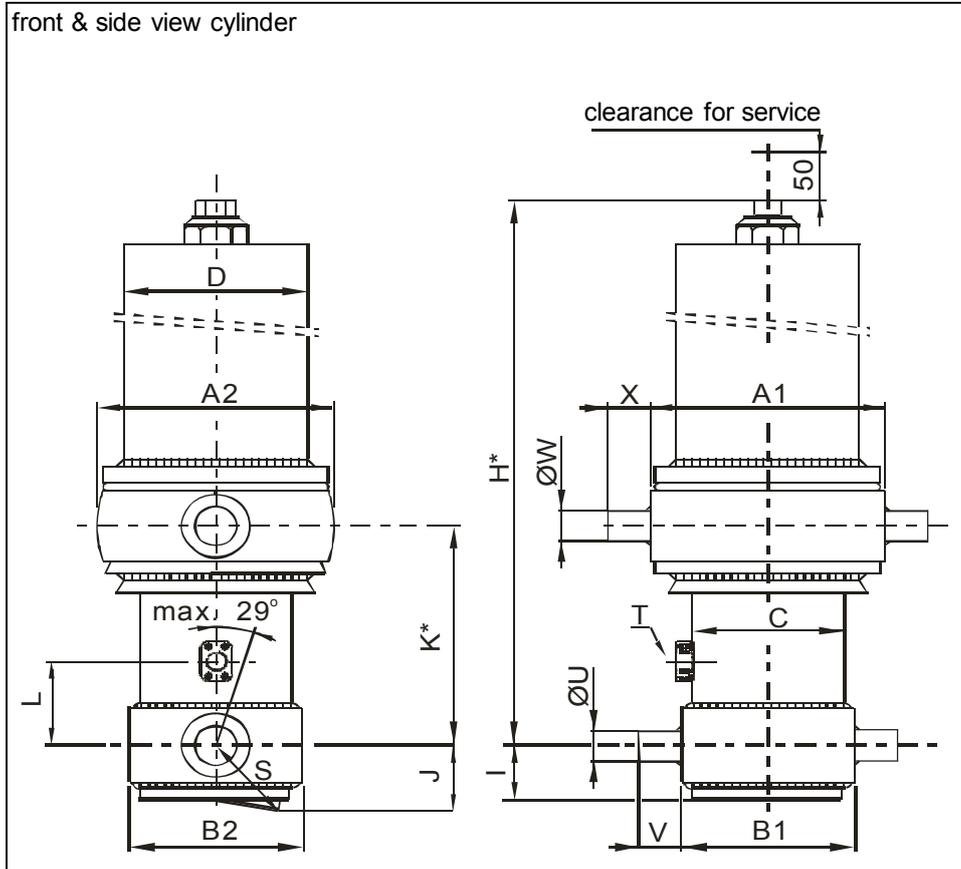
34-68 ton

page # 1 / 2

closed length (K)

338-373 mm

front & side view cylinder



	1	2	
A	340	329	mm
B	201	201	mm
C	169		mm
D	242		mm
E			mm
F			mm
G*			mm
H*	1644		mm
I	60		mm
J	96		mm
K*	343		mm
L	190		mm
M*			mm
N			mm
O			mm
P			mm
Q			mm
R			mm
S	114		mm
T	1" SAE		
U	60		mm
V	65		mm
W	60		mm
X	65		mm
Y			mm
Z			mm

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

specifications

weight cylinder only	270 kg
total volume	66 L
working volume	61 L
maximum pressure	190 bar
maximum pump flow	137 L/min
maximum cylinder angle to front	10 °
maximum thrust first stage**	30 ton

**when cyl. mounted at a large angle, thrust first stage may become too high: see Hyva Tipper Program

technical notes

This cylinder is a lifting device only and may not be used as structural member or be subject to side load. Working pressure depends on application; never exceed maximum pressure stated. Cylinder is painted black (RAL9005).

Max duration of extension 0.5 hours (excluded HC). See specification sheet CYL-0019 for mounting instructions, OIL-0011 for oil specifications and 015-BRA01 for bracket specifications.

extension	1	2	3	4	5	6	7	8	9	
effective diameter [mm]	149	129	110	91						total
stroke [mm]	1280	1300	1300	1300						5180

tipping weight

tipping weight at maximum pressure of 190 bar and C is 229 mm

BL (body length); OH (rear overhang); X=Ycog (vert. pos. centre of gravity); Qo (pivot length); C (bracket length); At = stroke x 60 / Qo	BL	6900			6550			6200		
	OH	200	500	800	200	500	800	200	500	800
At	44	46	49	47	49	52	49	52	55	
Ycog	600	34	38	42	36	40	45	37	42	49
	900	37	41	46	39	44	51	41	47	57
	1200	40	45	52	42	49	58	46	54	68

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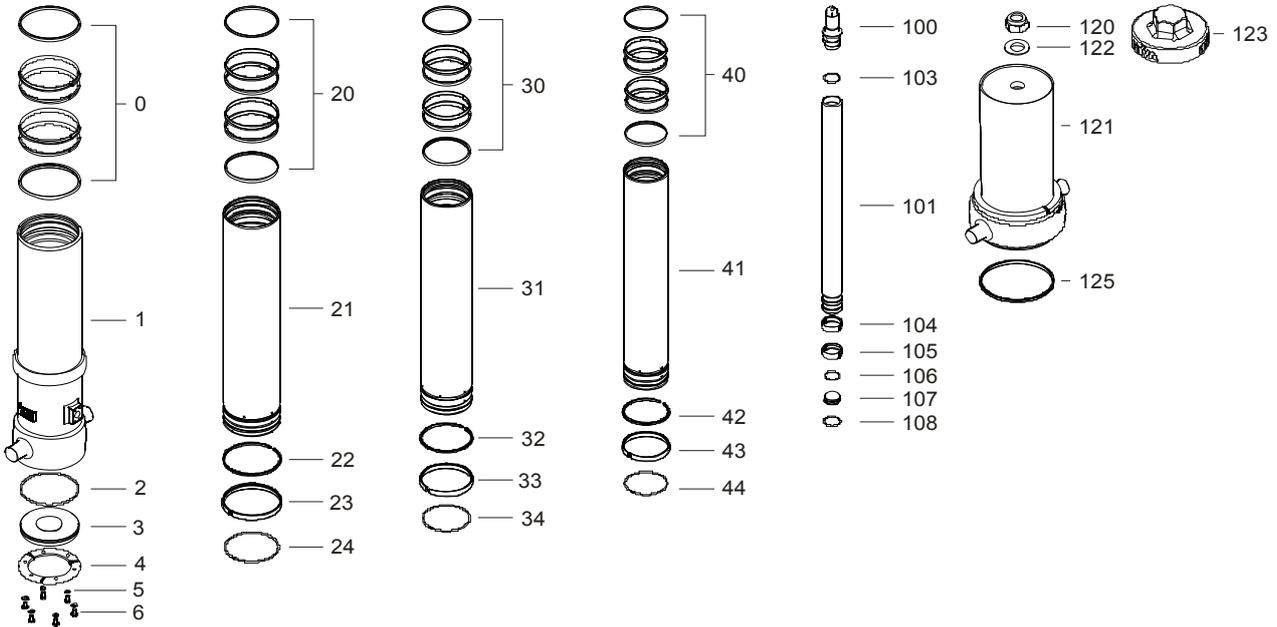
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page # 2 / 2



Spare part list

Pos	Part no.	Description	Qty.
0	71802169 K	PACKSET FL 169	01
1	72506511R1225	BASE 169-1559-4/4SAE-190-90-C242	01
2	71870035 K	SEAL BOTTOM PLATE 169	01
3	71821169	BOTTOM PLATE 169	01
4	71820169	LOCKING PLATE 169	03
5	01732559 K	SPRING WASHER M8 SET	01
6	01732055 K	BOLT M8 X 1.25 X 20 SET	01

20	71802149 K	PACKSET FL 149/HP 150	01
21	72605510	STAGE 149-1520	01
22	71811149 K	OUTER STOPRING FL 149	01
23	71807149 K	SLIDER FL 149	01
24	71812149 K	LIFTRING FL 149/HP 150	01

30	71802129 K	PACKSET FL 129/HP 129	01
31	72604510	STAGE 129-1520	01
32	71811129 K	OUTER STOPRING FL 129/HP 129 HD	01
33	71807129 K	SLIDER FL 129/GF 129 (2 X 1/2)	01
34	71812129 K	LIFTRING FL 129/HP 129	01

Spare part list

Pos	Part no.	Description	Qty.
40	71802110 K	PACKSET FL 110	01
41	72603510	STAGE 110-1520	01
42	71811110 K	OUTER STOPRING FL 110/HP 110 HD	01
43	71807110 K	SLIDER FL 110/GF 110 (2 X 1/2)	01
44	71812110 K	LIFTRING FL 110	01

100	71831091	PISTON HEAD 091 MACHINED	01
101	72402511	PISTON S 091-1525-HC	01
103	71870115 K	O-RING PISTON TOP 091	01
104	71811091 K	OUTER STOPRING FL 091/HP 091 HD	01
105	71807091 K	SLIDER FL 091 (2 X 1/2)	01
106	71870215	O-RING PISTON BOTTOM 091	01
107	71822091	BOTTOM PLATE PISTON 091	01
108	01745012	CIRCLIP 82 DIN 472 (87.5x2.5)	01

120	01702907	TOPNUT NYLOC M48x3 DIN 985 ZP	01
121	71706544	COVER 242-1325 PIN60	01
122	01702956	WASHER M48 DIN 125B ZP	01
123	01702972	DUST COVER FOR COVER 242 YELLOW	01
125	01791941	O-RING COVER D242	01

Seal kit complete:

Part no.	Description
71901540 K	Seal kit complete: consists of all packsets with packset grease and O-rings

Notes:

The inner and outer stoprings are pre-mounted in the grooves on spare stages and pistons. Therefore, when ordering new tubes, it is not required to order stopring separately.