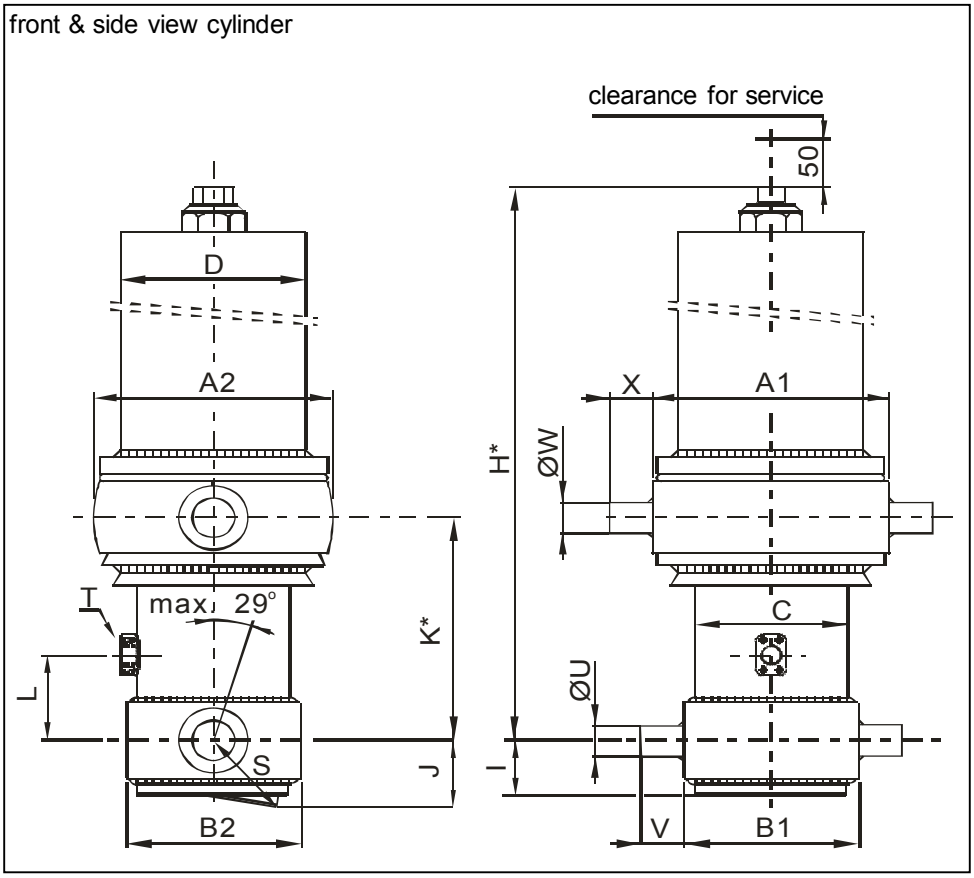
HYVA CYLINDER

715 02 160

Front end cylinder with outer cover | **type** | **FC 091-3-03205-000A-K0298**
tipping weight | **11-20 ton**
 | **closed length (K)** | **293-328 mm**

front & side view cylinder



	1	2	
A	201	201	mm
B	136	139	mm
C	110		mm
D	168		mm
E			mm
F			mm
G*			mm
H*	1464		mm
I	60		mm
J	81		mm
K*	298		mm
L	160		mm
M*			mm
N			mm
O			mm
P			mm
Q			mm
R			mm
S	89		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	123	kg
total volume	16	L
working volume	14	L
maximum pressure	190	bar
maximum pump flow	46	L/min
maximum cylinder angle to front	10	°
maximum thrust first stage**	15	ton

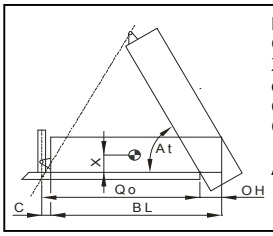
**when cyl. mounted at a large angle, thrust first stage may become too high: see Hyva Tipper Program

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 015BRA01 for bracket specifications.

extension	1	2	3	4	5	6	7	8	9	
effective diameter [mm]	91	72	53							total
stroke [mm]	1055	1075	1075							3205

tipping weight



BL (body length);
OH (rear overhang);
X=Ycog (vert. pos. centre of gravity);
Qo (pivot length);
C (bracket length);

At = stroke x 60 / Qo

tipping weight at maximum pressure of 190 bar and C is 140 mm

BL	4400			4050			3700		
OH	200	300	400	200	300	400	200	300	400
At	44	45	46	48	49	50	53	54	56
Ycog									
400	11	12	12	12	13	13	13	14	15
600	12	13	13	13	14	15	14	16	17
800	13	14	15	14	15	17	16	18	20

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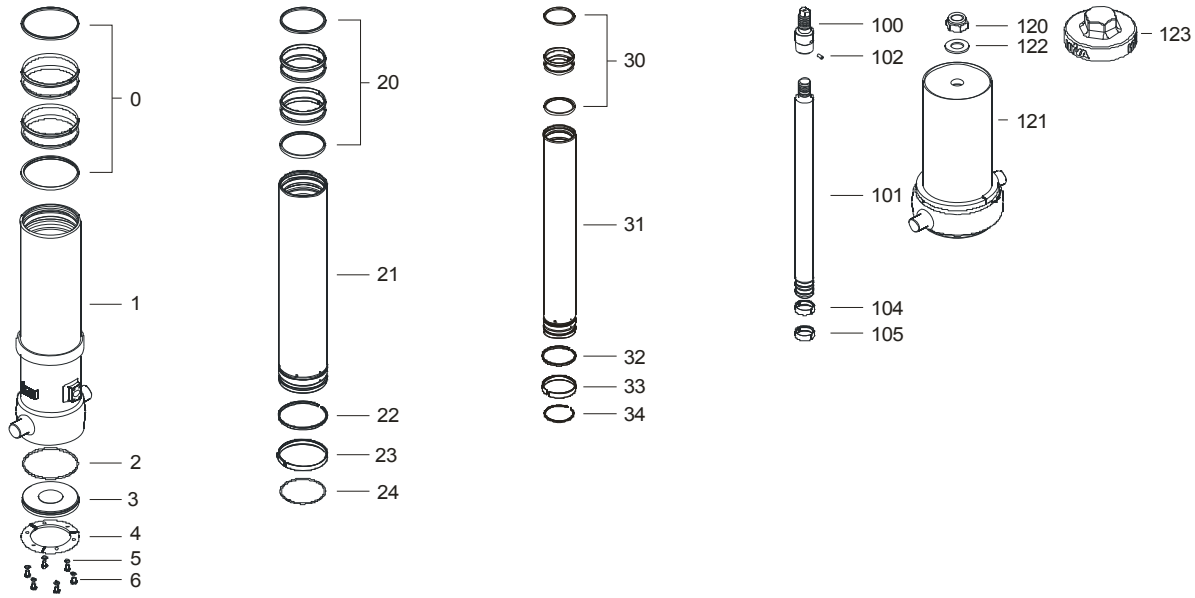

Spare part list

Pos	Part no.	Description	Qty.
0	71802110 K	PACKSET FL 110	01
1	72503300R0975	BASE 110-1314-4/4SAE-160-C168	01
2	71870020 K	O-RING BOTTOM PLATE 110	01
3	71821110	BOTTOM PLATE 110	01
4	71820110	LOCKING PLATE 110	03
5	01732559 K	SPRING WASHER M8 SET	01
6	01732055 K	BOLT M8 X 1.25 X 20 SET	01

20	71802091 K	PACKSET FL 091	01
21	72602300	STAGE 091-1275	01
22	71811091 K	OUTER STOPRING FL 091/HP 091 HD	01
23	71807091 K	SLIDER FL 091 (2 X 1/2)	01
24	71812091 K	LIFTRING FL 091	01

30	71802072 K	PACKSET FL 072	01
31	72601300	STAGE 072-1275	01
32		NOT APPLICABLE	
33	71807072 K	SLIDER FL 072 (2 X 1/2)	02
34	71810072 K	INNER STOPRING/LIFTRING FL 072	01

Spare part list

Pos	Part no.	Description	Qty.
100	71831053	PISTON HEAD 053 MACHINED	01
101	72400301	PISTON S 053-1335-HC	01
102	71875011	PIN ROUND HEAD GROOVED 6x25 mm	01
104	71807053 K	SLIDER FL 053 (2 X 1/2)	01
105	71807053 K	SLIDER FL 053 (2 X 1/2)	01

120	01702907	TOPNUT NYLOC M48x3 DIN 985 ZP	01
121	71703409	COVER 168-1145 PIN60 FIXED	01
122	01702956	WASHER M48 DIN 125B ZP	01
123		NOT APPLICABLE	

Seal kit complete:

Part no.	Description
71901230 K	Seal kit complete: consists of all packsets with packset grease, O-rings and Pin (pos.102)

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.

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