



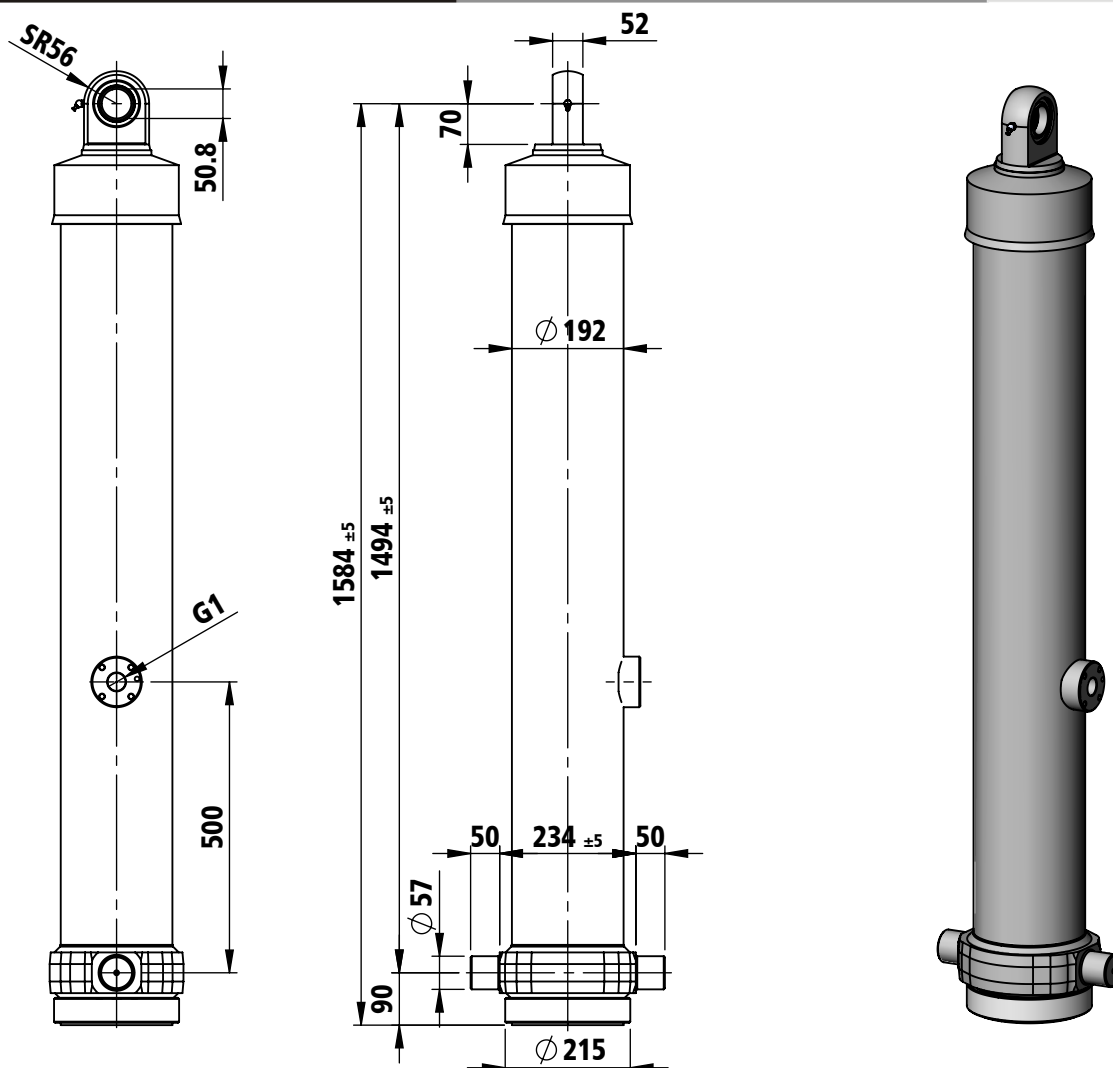
Front end cylinder, pins - eye (spherical bearing)

Part Number

4114301695003

Tipping weight

39-73 ton



mounting dimension

1494 mm + 20 mm min pull out

total stroke

6170 mm

max pressure

200 bar

model: HF6170 169 5

code: 4114301695003

weight: 235 kg

1222 000461

extension	1	2	3	4	5	-	-	-	-	--	--	number of stages: 5
diameter [mm]	169	149	129	111	95	--	--	--	--	--	--	
stroke [mm]	1224	1229	1234	1239	1244	--	--	--	--	--	--	total: 6170 mm
thrust [kN]	449	349	261	194	142	--	--	--	--	--	--	
oil [dm³]	27.5	21.4	16.1	12.0	8.8	--	--	--	--	--	--	total: 85.8 dm³

TECHNICAL NOTES AND SPECIFICATIONS

- The normal application of telescopic cylinder is to lift up tipping bodies, loaded with different materials, and consequently discharge this material whilst the cylinder is extended all along its stroke.
- The body weight plus the max payload are the max tipping weight that can be raised by the cylinder. This value, calculated at the max pressure, is a rough indication of the tipping power of the cylinder and must be used as a first criteria for the selection of the cylinder. The real tipping mass can only be calculated by the design engineer of the dump truck, and must take into account the geometry of the dump body and operating conditions. Never exceed the maximum thrust.
- Never exceed maximum pressure.
- The cylinder has been designed for loads along the longitudinal axis: the cylinder is a lifting device only and may not be used as structural member or be subject to side load.
- Chrome coating type CRN (40 h corrosion test ISO 9227-rating 9 ISO 10289 / minimum thickness: 15 µm) on rod stage Ø95.
- H.S.PENTA warranty does not apply to any kind of corrosion of coated or non-coated parts. See terms of warranty.
- Maximum extension speed less than 0.2 m/s.
- Hydraulic oil temperature admitted between -40°C and +100°C.
- In case the cylinders must be stored, do not remove the package. Store them in a dry place, not exposed to rain. Do not store the cylinders for more than 6 (six) months.
- Further specifications see mounting instructions, hydraulic oil specification sheet, user & maintenance manual.
- Critical buckling load 181 kN fully extended cylinder.

REMARKS

[2011.10.17] [2011.11.30]

Last stage Ø95 chromed (Elemento terminale Ø95 cromato)

REVISIONS

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	02
	03
	04

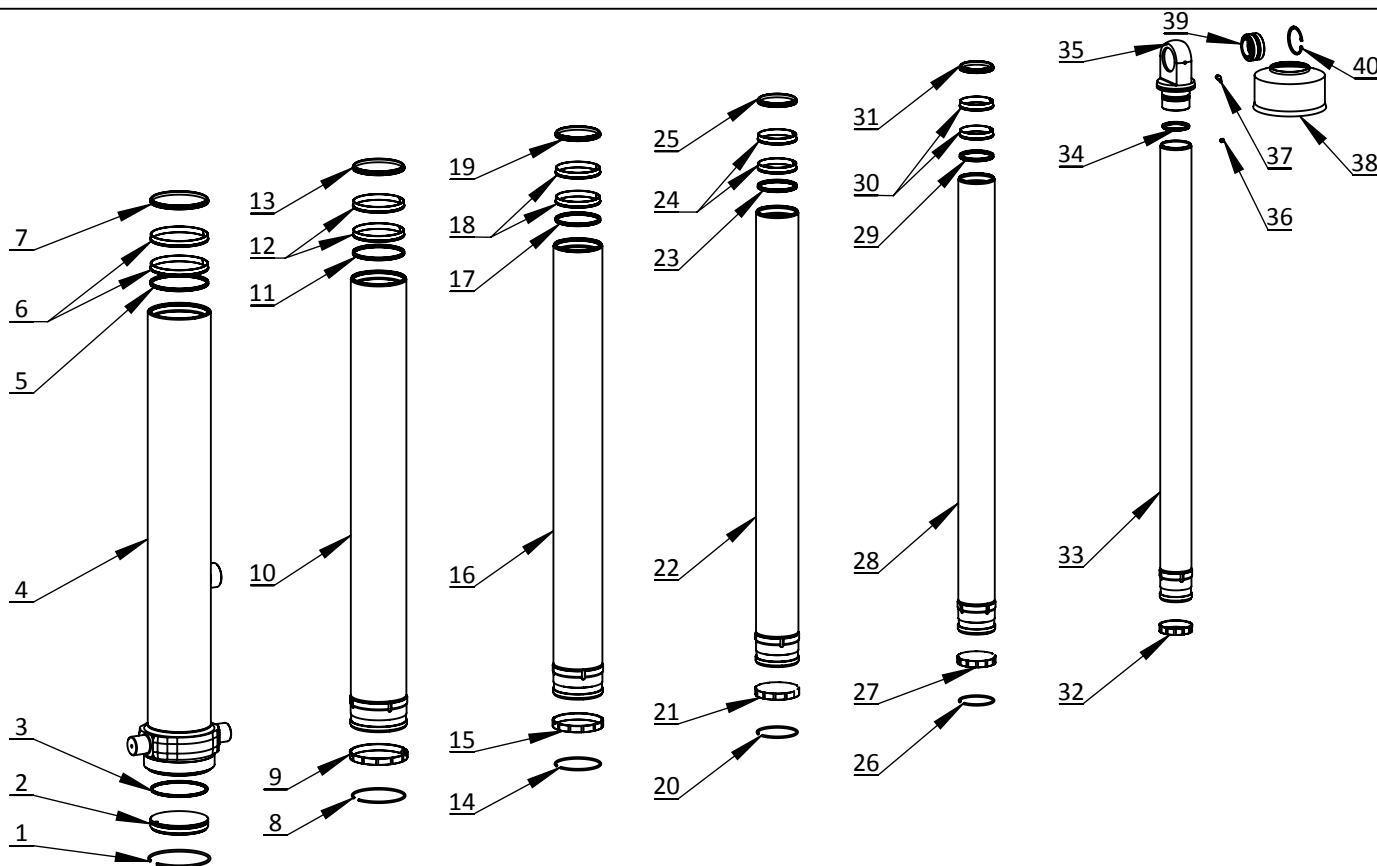


CODE

MODEL

4114301695003

FRONT MOUNT RAM - HF 6170 169 5



SPARE PARTS LIST

Item	Code	Description	Q.ty
1	B711690060001	Steel piston ring Ø190 S=6	1
2	B40169001	Ram base	1
3	D23154001	Ram base seal	1
4	B114301690002	Base tube	1
5	D21169001	Polyurethane seal Ø169	1
6	D15169002	Upper delrin guide Ø169	2
7	D34169001	Scraper ring Ø169	1
8	B701690050002	Steel piston ring Ø169 S=5	1
9	D17169001	Lower delrin guide Ø169	1
10	B214301690001	Telescopic stage Ø169	1
11	D21149002	Polyurethane seal Ø149	1
12	D15149002	Upper delrin guide Ø149	2
13	D34149001	Scraper ring Ø149	1
14	B701490050002	Steel piston ring Ø149 S=5	1
15	D17149001	Lower delrin guide Ø149	1
16	B214301490001	Telescopic stage Ø149	1
17	D21129001	Polyurethane seal Ø129	1
18	D15129002	Upper delrin guide Ø129	2
19	D34129001	Scraper ring Ø129	1
20	B701290050002	Steel piston ring Ø129 S=5	1

Item	Code	Description	Q.ty
21	D17129001	Lower delrin guide Ø95	1
22	B214301290001	Telescopic stage Ø129	1
23	D21111001	Polyurethane seal Ø111	1
24	D15111001	Upper delrin guide Ø111	2
25	D34111001	Scraper ring Ø111	1
26	B701110050001	Steel piston ring Ø111 S=5	1
27	D17111001	Lower delrin guide Ø111	1
28	B214301110001	Telescopic stage Ø111	1
29	D21095001	Polyurethane seal Ø95	1
30	D15095001	Upper delrin guide Ø95	2
31	D34095001	Scraper ring Ø95	1
32	D17095001	Lower delrin guide Ø95	1
33	B314300950004	Rod stage 95	1
34	D23081001	Terminal head seal	1
35	B50095002	Terminal head	1
36	D608M0010G004	Grub screw M10x12 UNI 5927	1
37	D623100101	Grease nipple M10x1 45°	1
38	BD0174001	Plastic cap	1
39	D624005081	Spherical bearing Ø50.8	1
40	D620000821	Seeger ring I/82	1

GUIDE KIT: K141001695001 / SEAL KIT: K241001695001

REMARKS

[2013.09.25]

REVISIONS

01

02

03