



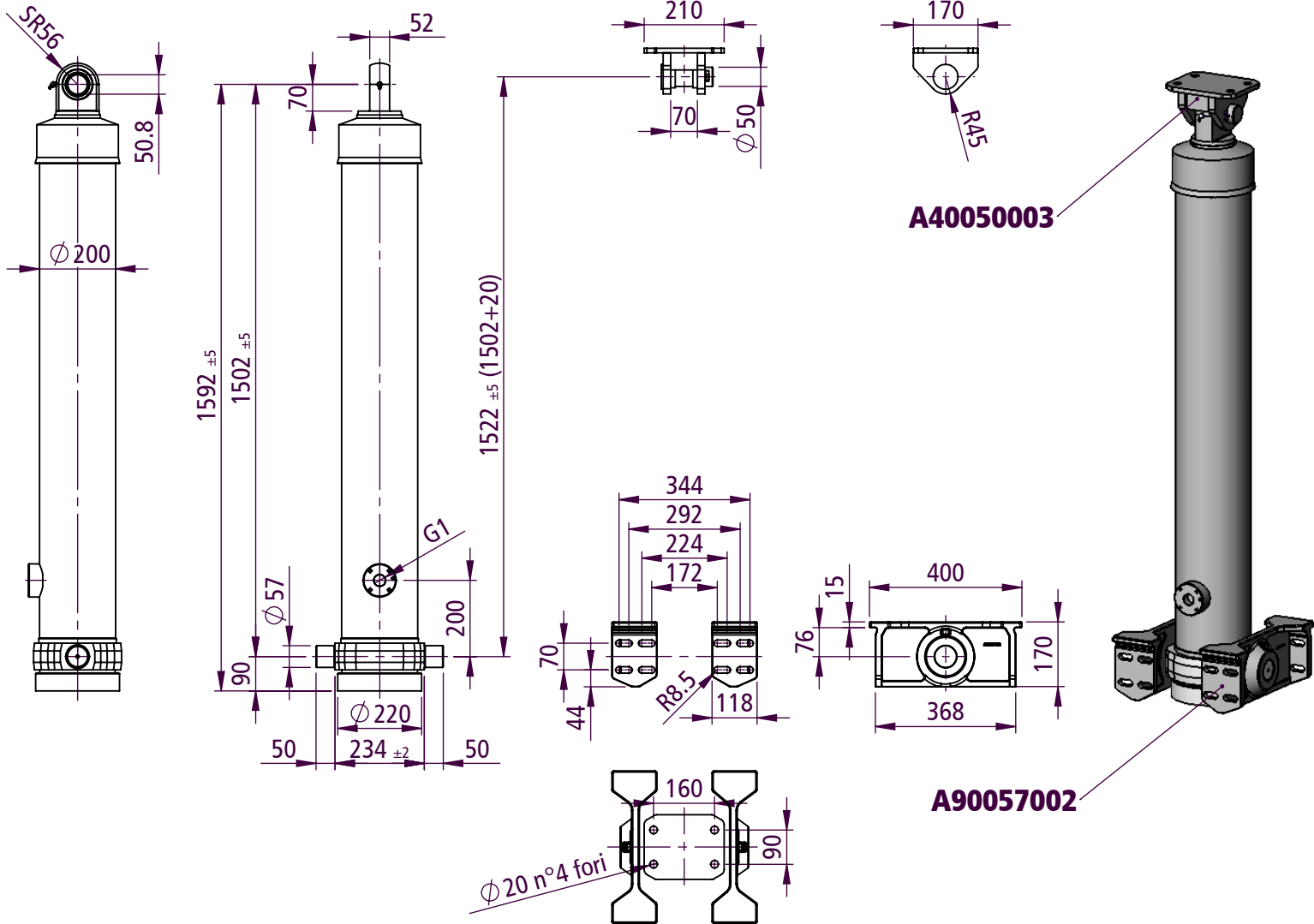
Front end cylinder, pins - eye (spherical bearings)

Part Number

4113991745001

Tipping weight

42-79 ton



mounting dimension	1502 mm + 20 mm min pull out	total stroke	6145 mm	max pressure	200 bar
model: PF1399 174 5	code: 4113991745001	weight: 269 kg	HS Penta		

extension	1	2	3	4	5	-	-	-	-	--	--	number of stages: 5
diameter [mm]	174	154	135	116	98	--	--	--	--	--	--	
stroke [mm]	1226	1226	1230	1230	1233	--	--	--	--	--	--	total: 6145 mm
thrust [kN]	476	373	286	211	151	--	--	--	--	--	--	max thrust admitted: 207 kN
oil [dm³]	29.2	22.8	17.6	13.0	9.3	--	--	--	--	--	--	total: 91.9 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.
- The ordinary use of telescopic cylinder does not require any coating as the telescopic stages are exposed to atmospheric agents only during the tip-up operation. Therefore telescopic cylinders will be supplied without any coating in absence of any specific requirements.
- 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.

REMARKS

[2002.05.28] [2002.05.28]

Last stage Ø98 chromed (Elem. term. Ø98 cromato)

Old code: HPF6145 (Codice vecchio: HPF6145)

REVISIONS

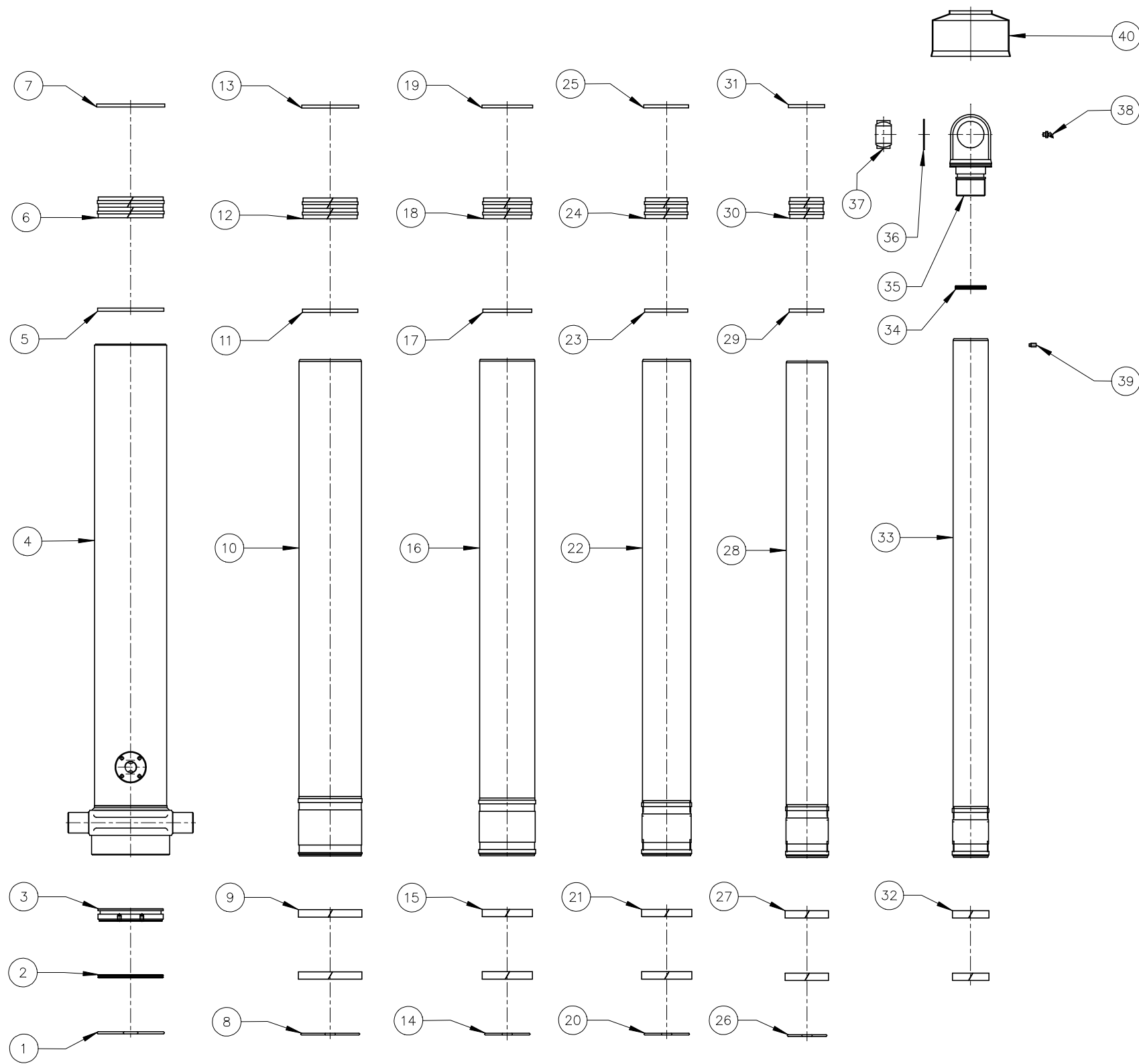
2009.05.13 - Aggiornamento dati

01

02

03

04



40	BD0174001	Protection cover		1	
39	D608M0010G003	Anti-screwing screw M10x16		1	
38	D623100101	Grease nipple M10x1 45°		1	
37	D624005081	Articulated ball Ø50.8		1	
36	D620000821	Seeger ring l/82		1	
35	B50098005	Terminal head		1	
34	D23098001	Polyurethane seal DR336		1	
33	B313990980004	Telescopic extensions Ø98		1	
32	D12098001	Special delrin double guide Ø116		2	
31	D31098001	Scraper ring Ø98		1	
30	D13098001	Higher special delrin double guide Ø98		2	
29	D21098002	Polyurethane seal Ø98		1	
28	B213991160001	Telescopic extensions Ø116		1	
27	D12116001	Special delrin double guide Ø116		2	
26	B701160050001	Steel piston ring Ø116 S=5		1	
25	D31116001	Scraper ring Ø116		1	
24	D13116001	Higher special delrin double guide Ø116		2	
23	D21116002	Polyurethane seal Ø116		1	
22	B213991350001	Telescopic extensions Ø135		1	
21	D12135001	Special delrin double guide Ø135		2	
20	B701350050001	Steel piston ring Ø135 S=5		1	
19	D31135001	Scraper ring Ø135		1	
18	D13135001	Higher special delrin double guide Ø135		2	
17	D21135002	Polyurethane seal Ø135		1	
16	B213991540001	Telescopic extensions Ø154		1	
15	D12154001	Special delrin double guide Ø154		2	
14	B701540050001	Steel piston ring Ø154 S=5		1	
13	D31154001	Scraper ring Ø154		1	
12	D13154001	Higher special delrin double guide Ø154		2	
11	D21154002	Polyurethane seal Ø154		1	
10	B213991740001	Telescopic extensions Ø174		1	
9	D12174001	Special delrin double guide Ø174		2	
8	B701740050001	Steel piston ring Ø174 S=5		1	
7	D31174001	Scraper ring Ø174		1	
6	D13174001	Higher special delrin double guide Ø174		2	
5	D21174002	Polyurethane seal Ø174		1	
4	B113991740001	Base tube		1	
3	B40174003	Ram base		1	
2	D23174002	Polyurethane seal DR876		1	
1	B711740060001	Steel piston ring Ø162 S=6		1	

POS.	CODICE	DESCRIZIONE	MASSA	Q.TA'	STATO MATERIALE E NOTE
MATERIALE GREZZO - COMPONENTI					

5					
4					
3					
2					
1					
Aggiornamento dati			2008/07/08		
N°	MODIFICA - DESCRIZIONE		DATA	FIRMA	

A2 2D	DISEGNATO	CONTROLLATO	APPROVATO	COPIA EMESSA DA	DATA COPIA
2004.10.01					

FIRMA					
-------	--	--	--	--	--

RUGOSITA' >	RACCORDI >	SMUSSI >	MACCHINA >
	R1	0.5x45°	CILINDRO SERIE FRONTALE

QUOTE SENZA INDICAZIONE DI TOLLERANZA >	GRUPPO >
ISO 2768 - cK	PF1399 6145 174 5

Tutti i diritti sono riservati - Sono vietate, a norma di legge, la riproduzione, anche parziale, e la cessione di questo documento a terzi senza il consenso della H.S.PENTA s.r.l.				DISEGNATORE >	DATA >	SCALA >	CODICE DISEGNO >
				A. Ricci	1999/03/18	1:10	4113991745001

DENOMINAZIONE >			
ESPLOSO P.F.			

(codice vecchio: HPF6145)			
---------------------------	--	--	--

