

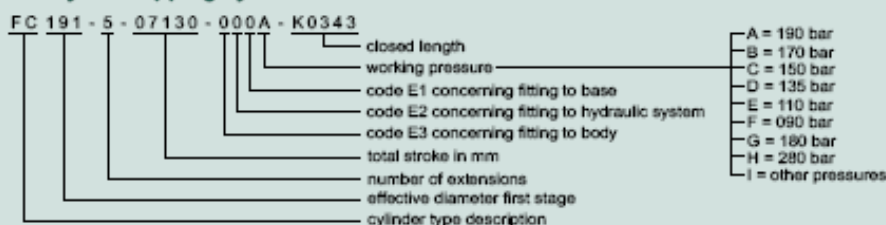


40 HYVA tipsylinder

Hyva Cylinders

Introduction

Code system tipping cylinders



Cylinder type description

FC	- front-end cylinder with outer cover
FCE	- front-end cylinder with outer cover and bottom eye
FCT	- front-end cylinder with outer cover and bottom tank
FE	- front-end cylinder with piston eye
FEE	- front-end cylinder with piston eye and bottom eye
EF	- front end cylinder with piston eye for mounting upside down
OE / UCE	- under body cylinder for rear tipping
UCB	- under body cylinder for three way tipping
DA / DE	- double acting cylinder
DEE	- double acting eye-eye
SA	- single acting one extension
KRM / KRA	- under body cylinder

Code E1 concerning fitting to base

0	standard trunnion at standard position
2	double eye trunnion with bush
9	special base trunnion

Code E2 concerning fitting to hydraulics

0	standard inlet at standard front position
1	standard inlet at non-standard front position
7	standard inlet at side

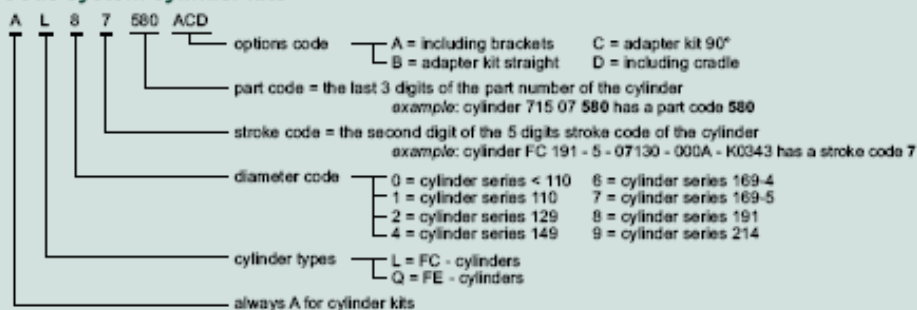
Code E3 concerning fitting to body

0	standard cover
1	standard spherical eye
2	fixed eye with bush
4	non standard cover
8	fixed eye without bush
9	special cover or piston

Front-end cylinder kits

To simplify the process of choosing the right adapters and mounting equipment Hyva has prepared tipping cylinder kits for chassis and cradle mounted cylinders. We have options with straight or 90° connections for high pressure hose connections.

Code system cylinder kits



Kits for cylinders with the effective diameter of the first stage smaller or equal 149 mm are standard equipped with adapters for 3/4" high pressure hoses. Bigger cylinders have adapters for 1" high pressure hoses.

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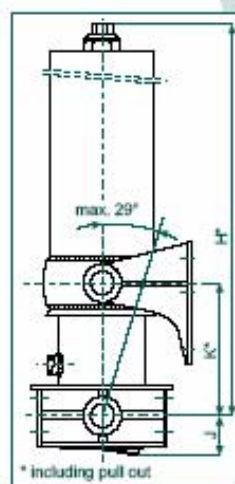
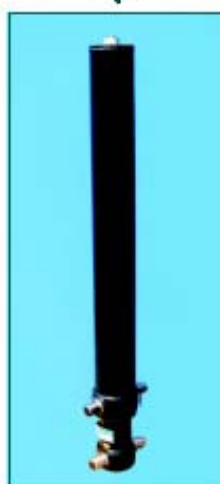
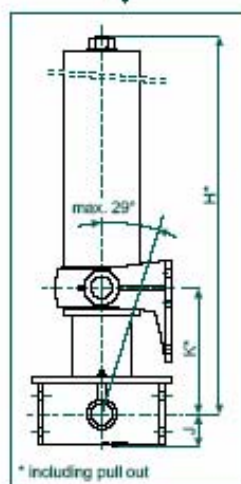
Hyva Cylinders

Front-end with outer cover

Front-end cylinder with outer cover

Part no.	Kit no.	Description	Press (bar)	Tipping weight (tons)	Kg.	Ltr. gross	Inlet	H* (mm)	J (mm)	K* (mm)
014 15 207	AL02207	FC 080-3-02900-900D-K0203	135	8 - 9	85	11	1/2"	1130	53	203

* incl. 15 mm pull out (p.o.); tolerances +20 -0



Front-end cylinders with outer cover

Part no.	Kit no.	Description	Press (bar)	Tipping weight (tons)	Kg.	Ltr. gross	Inlet	H* (mm)	J (mm)	K* (mm)
715 04 220	AL23220	FC 129-3-03880-000A-K0343	180	33 - 54	215	42	1"SAE	1634	91	343
715 04 250	AL24250	FC 129-3-04270-000A-K0343	180	34 - 62	229	48	1"SAE	1784	91	343

* incl. 20 mm pull out (p.o.); tolerances +20 -0

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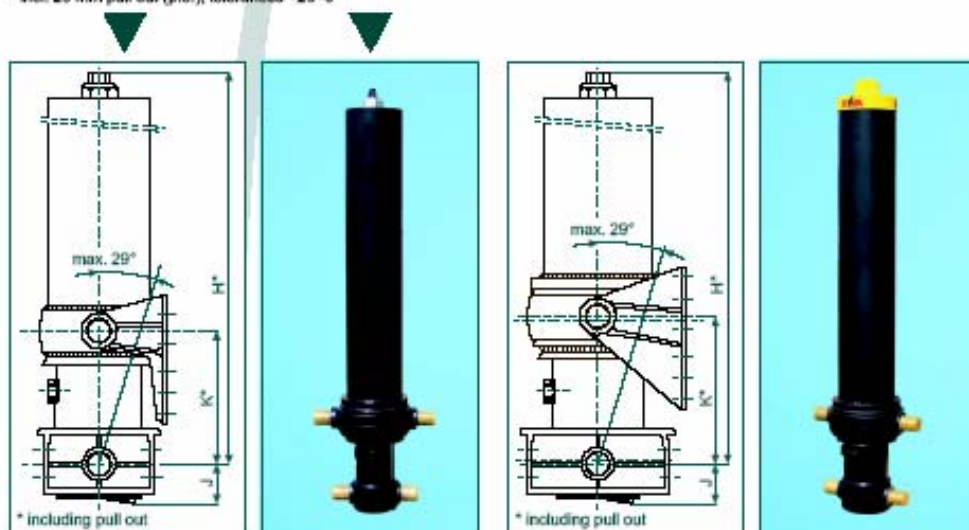
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Hyva Cylinders Front-end with outer cover

Front-end cylinders with outer cover

Part no.	Kit no.	Description	Press (bar)	Tipping weight (tons)	Kg.	Ltr. gross	Inlet	H* (mm)	J (mm)	K* (mm)
715 04 282	AL24282	FC 129-4-04280-070A-K0343	190	22 - 54	202	40	1"SAE	1399	91	343
715 04 290	AL24290	FC 129-4-04820-000A-K0343	190	22 - 50	212	43	1"SAE	1474	91	343
715 04 392	AL25392	FC 129-4-05180-070A-K0343	190	22 - 41	231	48	1"SAE	1644	91	343

* incl. 20 mm pull out (p.o.); tolerances +20 -0



Front-end cylinders with outer cover

Part no.	Kit no.	Description	Press (bar)	Tipping weight (tons)	Kg.	Ltr. gross	Inlet	H* (mm)	J (mm)	K* (mm)
715 05 256	AL44256	FC 149-3-04270-000A-K0343	190	50 - 73	266	62	1"SAE	1774	96	343
715 05 282	AL44282	FC 149-4-04280-070A-K0343	190	36 - 73	236	55	1"SAE	1399	96	343
715 05 292	AL44292	FC 149-4-04820-070A-K0343	190	36 - 68	247	59	1"SAE	1474	96	343
715 05 354	AL44354	FC 149-4-04940-000A-K0343	190	35 - 74	259	63	1"SAE	1554	96	343
715 05 404	AL45404	FC 149-4-05180-070A-K0343	190	34 - 68	270	68	1"SAE	1634	96	343
715 06 280	AL64280	FC 169-4-04280-000A-K0343	190	53 - 81	268	73	1"SAE	1394	106	343
715 06 290	AL64290	FC 169-4-04820-000A-K0343	190	52 - 82	282	78	1"SAE	1479	106	343
715 06 320	AL64320	FC 169-4-04940-000A-K0343	190	51 - 79	295	84	1"SAE	1559	106	343
715 06 390	AL65390	FC 169-4-05180-000A-K0343	190	51 - 84	310	87	1"SAE	1629	106	343
715 06 410	AL75410	FC 169-5-05355-000A-K0343	190	35 - 74	285	80	1"SAE	1384	106	343
715 06 430	AL65430	FC 169-4-05480-000A-K0343	190	50 - 81	319	92	1"SAE	1699	106	343
715 06 440	AL65440	FC 169-4-05700-000A-K0343	190	49 - 77	329	96	1"SAE	1769	106	343
715 06 450	AL75450	FC 169-5-05780-000A-K0343	190	35 - 66	300	87	1"SAE	1469	106	343
715 06 490	AL76490	FC 169-5-06180-000A-K0343	190	34 - 62	314	93	1"SAE	1549	106	343
715 06 550	AL76550	FC 169-5-06830-000A-K0343	190	34 - 57	340	102	1"SAE	1709	106	343
715 06 580	AL77580	FC 169-5-07130-000A-K0343	190	34 - 50	351	107	1"SAE	1759	106	343
715 06 678	AL77678	FC 169-5-07630-004A-K0343	190	33 - 47	373	114	1"SAE	1889	106	343
715 06 720	AL78720	FC 169-5-08130-000A-K0486	190	33 - 46	387	122	1"SAE	1989	106	486
715 06 860	AL79860	FC 169-5-09030-000C-K0486	150	26 - 35	424	135	1"SAE	2209	106	486
715 06 910	AL79910	FC 169-5-09530-000D-K0486	135	23 - 30	441	143	1"SAE	2309	106	486

* incl. 20 mm pull out (p.o.); tolerances +20 -0

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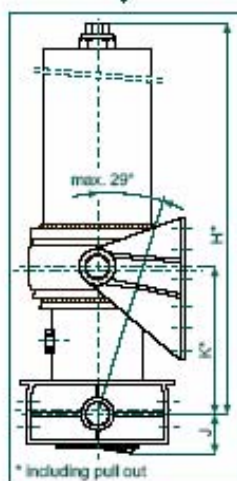
Hyva Cylinders

Front-end with outer cover

Front-end cylinder with outer cover

Part no.	Kit no.	Description	Press (bar)	Tipping weight (tons)	Kg.	Ltr. gross	Inlet	H* (mm)	J (mm)	K* (mm)
715 07 452	AL85452	FC 191-5-05780-000A-K0343	190	51 - 83	358	114	1"SAE	1482	116	343
715 07 490	AL86490	FC 191-5-08180-000A-K0343	190	59 - 79	375	122	1"SAE	1562	116	343
715 07 580	AL87580	FC 191-5-07130-000A-K0343	190	49 - 72	420	140	1"SAE	1772	116	343
715 07 720	AL88720	FC 191-5-08130-000A-K0343	190	48 - 67	463	160	1"SAE	2002	116	343
715 07 880	AL89880	FC 191-5-09030-000B-K0486	170	43 - 57	508	177	1"SAE	2212	116	486
715 07 910	AL89910	FC 191-5-09530-000C-K0486	150	37 - 49	529	187	1"SAE	2312	116	486
715 08 880	AL99880	FC 214-5-09030-000B-K0486	170	59 - 79	581	227	1"SAE	2197	135	486

* incl. 15 mm pull out (p.o.); tolerances +20 -0



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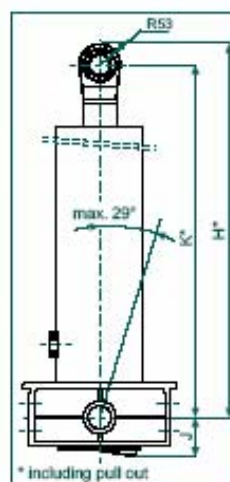
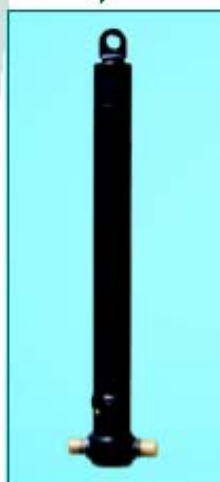
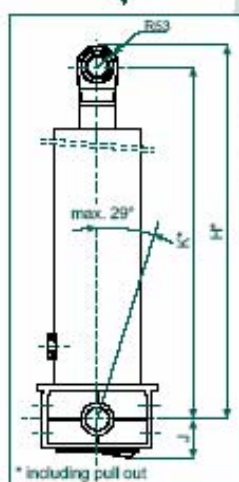
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Hyva Cylinders Front-end with eye

Front-end cylinders with eye

Part no.	Kit no.	Description	Press (bar)	Tipping weight (tons)	Kg.	Ltr. gross	Inlet	H* (mm)	J (mm)	K* (mm)
715 33 184	AQ13184	FE 110-3-03205-009A-K1399	190	21 - 48	98	24	1"SAE	1452	86	1399
715 33 200	AQ13200	FE 110-3-03700-001A-K1529	190	20 - 37	109	28	1"SAE	1582	86	1529
715 34 180	AQ23180	FE 129-3-03480-001A-K1449	190	33 - 59	129	37	1"SAE	1602	91	1449
715 34 220	AQ23220	FE 129-3-03890-002A-K1609	190	32 - 66	142	42	1"SAE	1652	91	1609

* incl. 20 mm pull out (p.o.); tolerances +20 -0



Front-end cylinders with eye

Part no.	Kit no.	Description	Press (bar)	Tipping weight (tons)	Kg.	Ltr. gross	Inlet	H* (mm)	J (mm)	K* (mm)
715 35 226	AQ43226	FE 149-3-03890-009A-K1644	190	47 - 68	168	58	1"SAE	1697	96	1644
715 35 300	AQ44300	FE 149-4-04820-009A-K1484	190	35 - 70	171	59	1"SAE	1527	96	1484
715 35 320	AQ44320	FE 149-4-04940-001A-K1529	190	34 - 66	179	63	1"SAE	1582	96	1529
715 36 302	AQ64302	FE 189-4-04820-019A-K1479	190	51 - 83	206	78	1"SAE	1522	108	1479
715 36 392	AQ65392	FE 189-4-05180-011A-K1604	190	50 - 83	227	88	1"SAE	1657	108	1604
715 36 426	AQ75426	FE 189-5-05355-019A-K1394	190	35 - 66	212	80	1"SAE	1437	108	1394
715 36 470	AQ75470	FE 189-5-05780-019A-K1559	190	34 - 60	224	87	1"SAE	1612	108	1559
715 36 504	AQ76504	FE 189-5-06180-019A-K1559	190	34 - 58	236	93	1"SAE	1612	108	1559
715 36 522	AQ76522	FE 189-5-06480-011A-K1604	190	34 - 56	247	97	1"SAE	1657	108	1604
715 36 556	AQ76556	FE 189-5-06830-011B-K1674	170	30 - 48	258	102	1"SAE	1723	108	1674
715 36 594	AQ77594	FE 189-5-07130-019C-K1769	150	26 - 37	266	107	1"SAE	1822	108	1769
715 37 490	AQ86490	FE 191-5-06180-011A-K1527	190	49 - 84	281	122	1"SAE	1570	116	1527
715 37 668	AQ87668	FE 191-6-07420-019B-K1677	170	30 - 43	300	131	1"SAE	1720	116	1677
715 37 860	AQ89860	FE 191-5-09030-011E-K2177	110	27 - 36	395	177	1"SAE	2230	116	2177
715 38 582	AQ97582	FE 214-5-07130-011B-K1722	170	60 - 84	380	180	1"SAE	1784	135	1722

* incl. 20 mm pull out (p.o.); tolerances +20 -0

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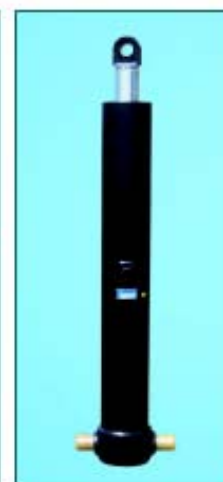
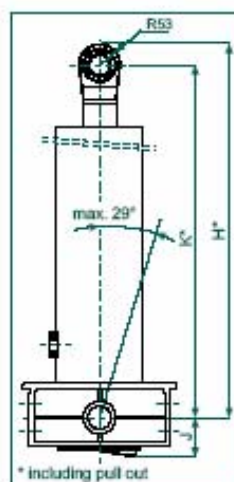
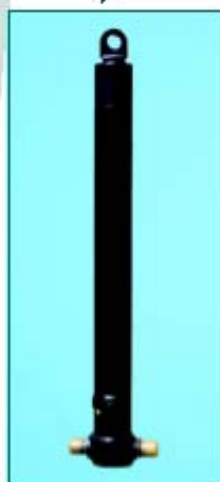
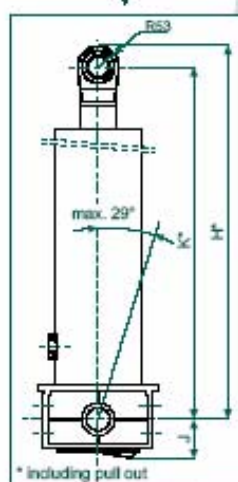
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Hyva Cylinders Front-end with eye

Front-end cylinders with eye

Part no.	Kit no.	Description	Press (bar)	Tipping weight (tons)	Kg.	Ltr. gross	Inlet	H* (mm)	J (mm)	K* (mm)
715 33 164	AQ13164	FE 110-3-03205-009A-K1399	190	21 - 46	98	24	1"SAE	1452	86	1399
715 33 200	AQ13200	FE 110-3-03700-001A-K1529	190	20 - 37	109	28	1"SAE	1582	86	1529
715 34 180	AQ23180	FE 129-3-03460-001A-K1449	190	33 - 59	129	37	1"SAE	1502	91	1449
715 34 220	AQ23220	FE 129-3-03880-002A-K1609	190	32 - 56	142	42	1"SAE	1652	91	1609

* incl. 20 mm pull out (p.o.); tolerances +20 -0



Front-end cylinders with eye

Part no.	Kit no.	Description	Press (bar)	Tipping weight (tons)	Kg.	Ltr. gross	Inlet	H* (mm)	J (mm)	K* (mm)
715 35 226	AQ43226	FE 149-3-03980-009A-K1644	190	47 - 68	168	58	1"SAE	1697	96	1644
715 35 300	AQ44300	FE 149-4-04620-009A-K1484	190	35 - 70	171	59	1"SAE	1527	96	1484
715 35 320	AQ44320	FE 149-4-04940-001A-K1529	190	34 - 66	179	63	1"SAE	1582	96	1529
715 36 302	AQ64302	FE 169-4-04820-019A-K1479	190	51 - 83	206	78	1"SAE	1522	108	1479
715 36 392	AQ65392	FE 169-4-05180-011A-K1804	190	50 - 83	227	88	1"SAE	1657	108	1604
715 36 426	AQ75426	FE 169-5-05355-019A-K1394	190	35 - 66	212	80	1"SAE	1437	108	1394
715 36 470	AQ75470	FE 169-5-05780-019A-K1559	190	34 - 60	224	87	1"SAE	1612	108	1559
715 36 504	AQ76504	FE 169-5-06180-019A-K1559	190	34 - 58	236	93	1"SAE	1612	108	1559
715 36 522	AQ76522	FE 169-5-06480-011A-K1804	190	34 - 56	247	97	1"SAE	1657	108	1604
715 36 556	AQ76556	FE 169-5-06830-011B-K1674	170	30 - 48	258	102	1"SAE	1723	108	1674
715 36 594	AQ77594	FE 169-5-07130-019C-K1769	150	26 - 37	266	107	1"SAE	1822	108	1769
715 37 490	AQ86490	FE 191-5-06180-011A-K1527	190	49 - 84	281	122	1"SAE	1570	116	1527
715 37 668	AQ87668	FE 191-6-07420-019B-K1677	170	30 - 43	300	131	1"SAE	1720	116	1677
715 37 860	AQ89860	FE 191-5-09030-011E-K2177	110	27 - 36	395	177	1"SAE	2230	116	2177
715 38 582	AQ97582	FE 214-5-07130-011B-K1722	170	60 - 84	380	180	1"SAE	1784	135	1722

* incl. 20 mm pull out (p.o.); tolerances +20 -0

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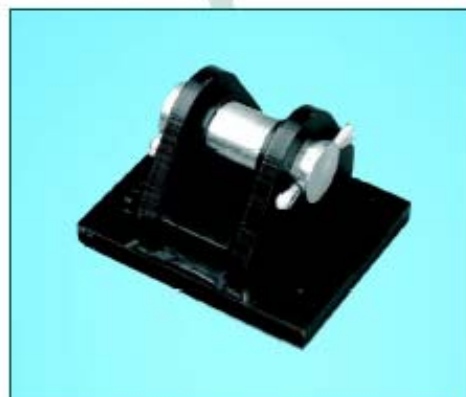
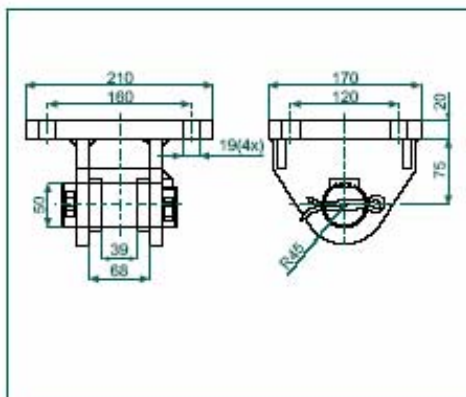
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Hyva Cylinders

Top brackets & bolt sets

Top bracket

Part no.	Description	Weight (Kg)
015 06 777	Top bracket for FE cylinders	11,0



Bracket mounting bolt sets

Part no.	Description	Qty. of bolts
Q 006	Lifting bracket bolt set M16x60	12
Q 007	Lifting bracket bolt set M16x70	12
Q 005	Chassis bracket bolt set M16x50	16



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Hyva Cylinders Seal sets for FC & FE

Seal sets for FC & FE cylinders

Cylinder	Part no.	Description
FC 080 - 3	017 02 380 K	Complete cylinder packset consisting of all stage packsets with packset grease and O-ring base
FC/FE 110 - 3	719 01 330 K	Complete cylinder packset consisting of all stage packsets with packset grease and O-ring base
FC/FE 129 - 3	719 01 430 K	Complete cylinder packset consisting of all stage packsets with packset grease and O-ring base
FC/FE 129 - 4	719 01 440 K	Complete cylinder packset consisting of all stage packsets with packset grease and O-ring base
FC/FE 149 - 4	719 01 540 K	Complete cylinder packset consisting of all stage packsets with packset grease and O-ring base
FC/FE 169 - 4	719 01 640 K	Complete cylinder packset consisting of all stage packsets with packset grease and O-ring base
FC/FE 169 - 5	719 01 650 K	Complete cylinder packset consisting of all stage packsets with packset grease and O-ring base
FC/FE 191 - 5	719 01 750 K	Complete cylinder packset consisting of all stage packsets with packset grease and O-ring base
FC/FE 191 - 6	719 01 760 K	Complete cylinder packset consisting of all stage packsets with packset grease and O-ring base
FC/FE 214 - 5	719 01 850 K	Complete cylinder packset consisting of all stage packsets with packset grease and O-ring base
FC/FE 214 - 6	719 01 860 K	Complete cylinder packset consisting of all stage packsets with packset grease and O-ring base



Top nut and washer

Part no.	Description	key width
017 02 920 K	Top nut and washer - FC	60
017 02 892 K	Top nut and washer - FC	75



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Hyva Cylinders

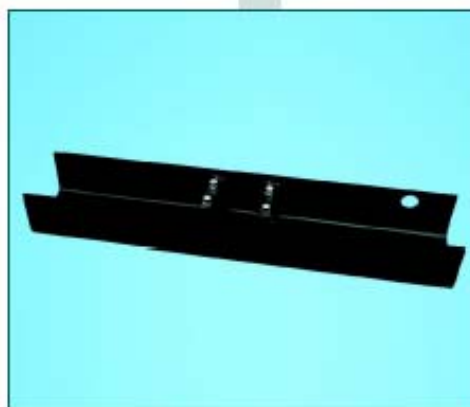
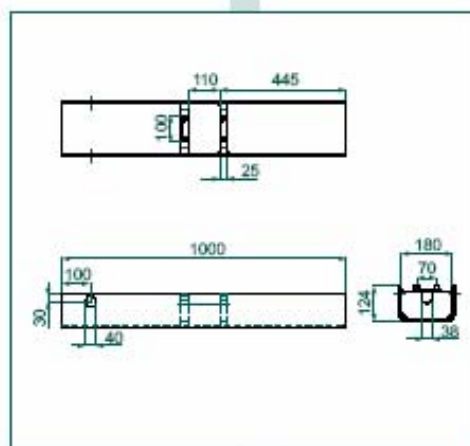
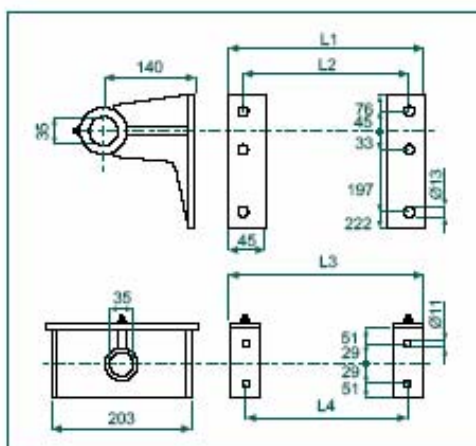
Brackets and cradles

FC 080

Part no.	Description	Kg
015 06 812	Lifting bracket left FC 080	?
015 06 814	Lifting bracket right FC 080	?
015 06 018	Chassis bracket FC 080 *)	?
015 07 540	Cylinder cradle FC 080 *)	32,0

dimensions	L1	L2	L3	L4
FC 080	236	200	202	152

*) When a cylinder cradle (015 07 540) is used no chassis brackets (015 06 018) are required.



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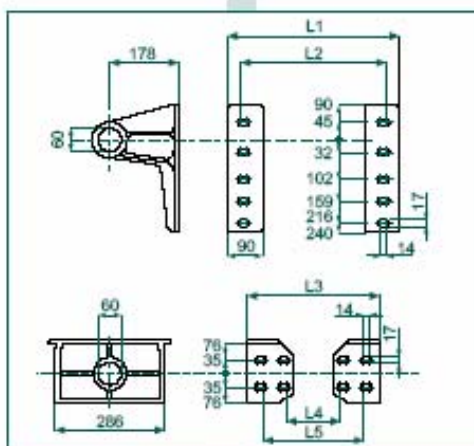
Hyva Cylinders Brackets and cradles

FC/FE 110

Part no.	Description	Kg
015 09 120	Lifting bracket left FC 110/129	8,5
015 09 121	Lifting bracket right FC 110/129	8,5
015 06 035	Chassis bracket FC/FE 110/129/149 Cylinder cradle *)	12,2

dimensions	L1	L2	L3	L4	L5
FC 110	299	237	307	103	223

*) FC/FE 110 cylinders can not be combined with a cradle.



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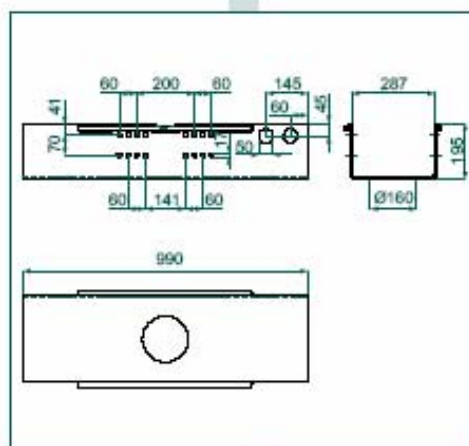
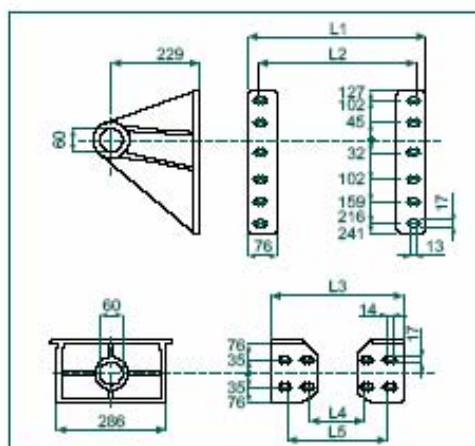
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Hyva Cylinders

Brackets and cradles

Part no.	Description	Kg
015 09 130	Lifting bracket left FC 129-3/149/169/191/214	9,5
015 09 131	Lifting bracket right FC 129-3/149/169/191/214	9,5
015 06 035	Chassis bracket - FC/FE 110/129/149	12,2
015 07 516	Cylinder cradle FC/FE 129	41,6

dimensions	L1	L2	L3	L4	L5
FC 129-3	482	410	345	141	261





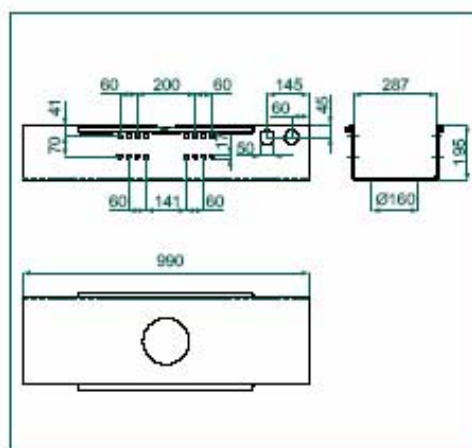
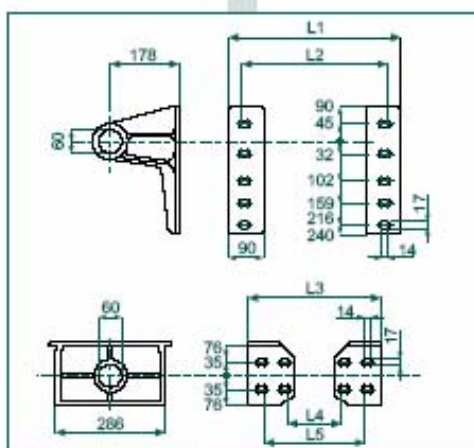
40 HYVA tippsylinder

Hyva Cylinders Brackets and cradles

FE/FC 129 - 4 stage cylinders

Part no.	Description	Kg
015 09 120	Lifting bracket left FC 110/129	8,5
015 09 121	Lifting bracket right FC 110/129	8,5
015 06 035	Chassis bracket FC/FE 110/129/149	12,2
015 07 516	Cylinder cradle FC/FE 129	41,6

dimensions	L1	L2	L3	L4	L5
FC 129 4	444	376	345	141	281



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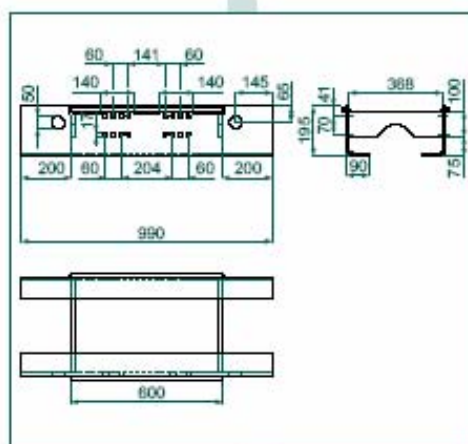
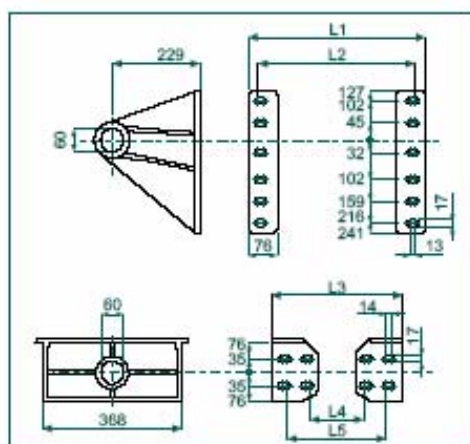
Hyva Cylinders

Brackets and cradles

FC/FE 149

Part no.	Description	Kg
015 09 130	Lifting bracket left FC 129-3/149/169/191/214	9,5
015 09 131	Lifting bracket right FC 129-3/149/169/191/214	9,5
015 06 050	Chassis bracket FC/FE 149/169/191	14,3
015 07 522	Cylinder cradle FC/FE 149/169/191	48,0

dimensions	L1	L2	L3	L4	L5
FC 149	482	410	345	141	261



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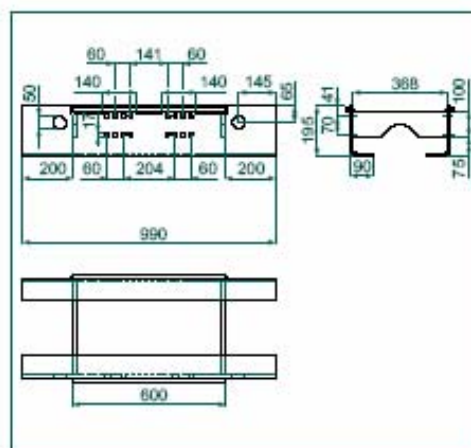
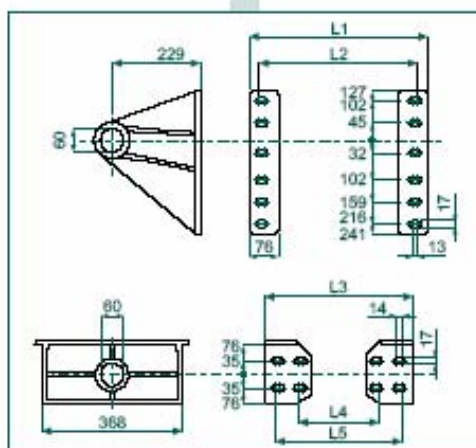
40 HYVA tippsylinder

Hyva Cylinders Brackets and cradles

FC/FE 169

Part no.	Description	Kg
015 09 130	Lifting bracket left FC 129-3/149/169/191/214	9,5
015 09 131	Lifting bracket right FC 129-3/149/169/191/214	9,5
015 06 050	Chassis bracket FC/FE 149/169/191	14,3
015 07 522	Cylinder cradle FC/FE 149/169/191	48,6

dimensions	L1	L2	L3	L4	L5
FC 169	482	410	387	211	331



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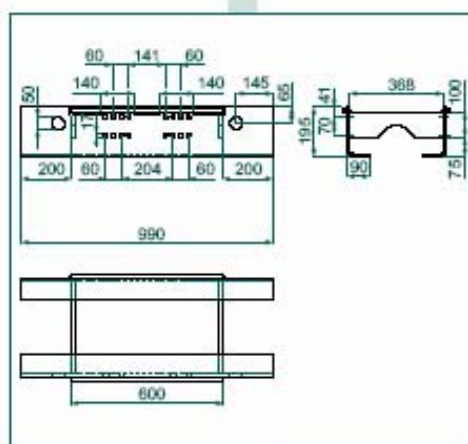
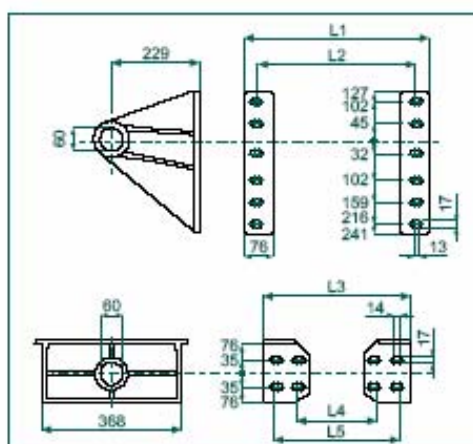
40 HYVA tippsylinder

Hyva Cylinders Brackets and cradles

FC/FE 191

Part no.	Description	Kg
015 09 130	Lifting bracket left FC 129-3/149/169/191/214	9,5
015 09 131	Lifting bracket right FC 129-3/149/169/191/214	9,5
015 06 050	Chassis bracket FC/FE 149/169/191	14,3
015 07 522	Cylinder cradle FC/FE 149/169/191	48,6

dimensions	L1	L2	L3	L4	L5
FC 191	482	410	387	211	331



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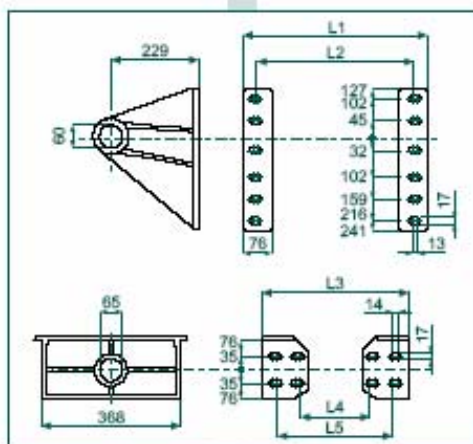
Hyva Cylinders Brackets and cradles

FC/FE 214

Part no.	Description	Kg
015 09 130	Lifting bracket left FC 129-3/149/169/191/214	9,5
015 09 131	Lifting bracket right FC 129-3/149/169/191/214	9,5
015 06 052	Chassis bracket FC/FE 214 (Cylinder cradle *)	14,0

dimensions	L1	L2	L3	L4	L5
FC 214	482	410	412	211	331

*) FC/FE 214 cylinders can not be combined with a cradle.



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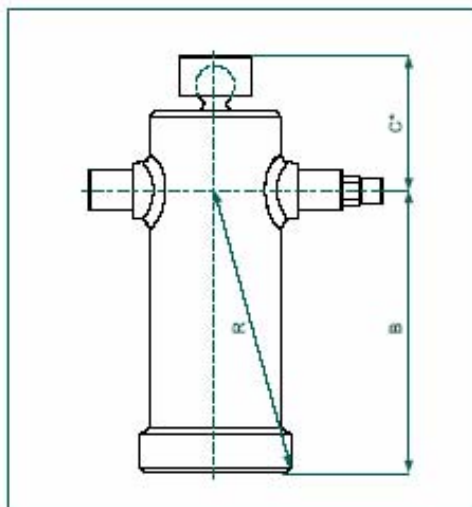
40 HYVA tippsylinder

Hyva Cylinders UCB underbody cylinders

Three-way underbody tipping cylinder

Part no.	Description	Kg.	Ltr.	Inlet	B (mm)	C* (mm)	R (mm)
014 04 003	UCB 107-4-00680	26,5	4	1/2"	185	177	200
014 04 040	UCB 107-4-00950	31,5	6	1/2"	255	177	265
014 04 084	UCB 107-4-01050	33,5	7	1/2"	280	177	289
014 04 155	UCB 107-4-01290	39	8	1/2"	340	177	348
014 04 209	UCB 107-4-01510	43	10	1/2"	395	177	402
014 04 258	UCB 107-4-01710	46,5	11	1/2"	445	177	451
014 04 272	UCB 107-4-01990	51	12	1/2"	515	177	520
014 04 367	UCB 107-5-01040	29	6	1/2"	225	170	236
014 04 368	UCB 107-5-01190	31	7	1/2"	255	170	265
014 06 851	UCB 126-4-01220	55	10	1/2"	325	182	336
014 04 825	UCB 126-5-02480	75	19	1/2"	515	185	522
014 07 150	UCB 126-6-01480	45,5	10	1/2"	265	175	278
014 07 508	UCB 145-4-01500	69	17	3/4"	320	264	336
014 07 908	UCB 145-5-01520	72,5	15	3/4"	250	265	270
014 07 909	UCB 145-5-01870	81,5	19	3/4"	320	265	336
014 09 803	UCB 165-6-02950	122	35	3/4"	445	268	459

* including 20 mm pull-out



Nipple for oil inlet UCB

Part no.	Description
016 01 450	Oil inlet nipple UCB 1/2"
016 01 800	Oil inlet nipple UCB 3/4"



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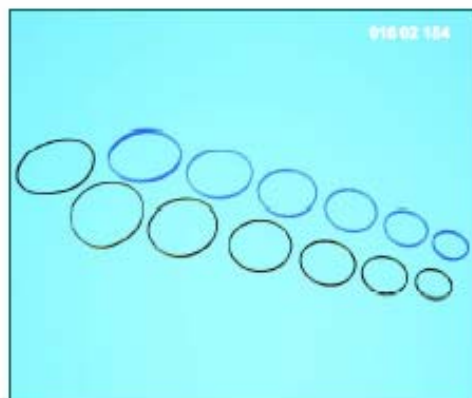


40 HYVA tippsylinder

Hyva Cylinders UCB Seal sets & brackets

Seal sets for UCB cylinders

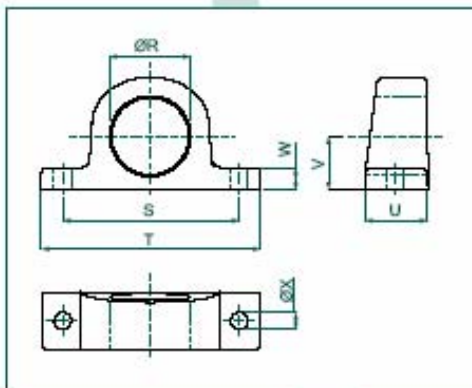
Cylinder	Part no.	Description
UCB 107 - 4	016 02 120	Complete cylinder packset consisting of all stage packsets and O-ring base
UCB 107 - 5	016 02 123	Complete cylinder packset consisting of all stage packsets and O-ring base
UCB 126 - 4	016 02 125	Complete cylinder packset consisting of all stage packsets and O-ring base
UCB 126 - 5	016 02 128	Complete cylinder packset consisting of all stage packsets and O-ring base
UCB 126 - 6	016 02 129	Complete cylinder packset consisting of all stage packsets and O-ring base
UCB 145 - 4	016 02 138	Complete cylinder packset consisting of all stage packsets and O-ring base
UCB 145 - 5	016 02 141	Complete cylinder packset consisting of all stage packsets and O-ring base
UCB 165 - 6	016 02 154	Complete cylinder packset consisting of all stage packsets and O-ring base



Bracket for UCB/UCE cylinders

(2 required)

Part no.	Description	ØR (mm)	S (mm)	T (mm)	U (mm)	V (mm)	W (mm)	ØX (mm)	Weight (kg)
014 14 550	Bracket UCBAUCE 107	40,5	105	140	45	33	15	15	1,2
014 14 604	Bracket UCBAUCE 126	45,5	125	140	45	33	15	15	1,2
014 16 653	Bracket UCBAUCE 145	50,5	120	155	50	37	17	15	1,5





40 HYVA tippsylinder

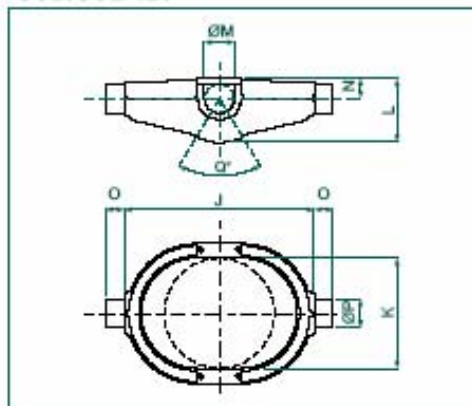
Hyva Cylinders

Cradle UCB

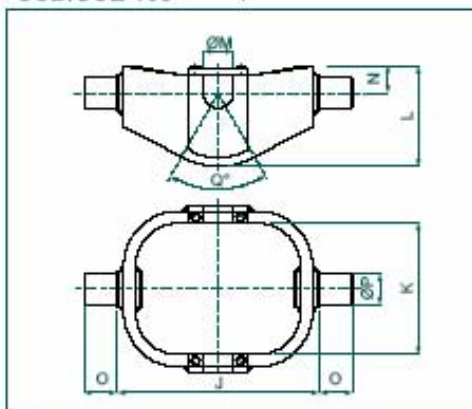
Cradle for UCB/UCE cylinders

Part no.	Description	J (mm)	K (mm)	L (mm)	ØM (mm)	N (mm)	O (mm)	ØP (mm)	Q*	Weight (kg)
014 13 800	Cradle UCB/UCE 107	230	155	107	40	31	40	40	80	10,5
014 13 850	Cradle UCB/UCE 126	280	185	125	45	40	45	50	80	15,0
014 13 703	Cradle UCB/UCE 145	230	155	107	40	31	40	40	80	22,2
014 13 710	Cradle UCB/UCE 165	230	155	107	40	31	40	40	80	28,7

UCB/UCE 126



UCB/UCE 165



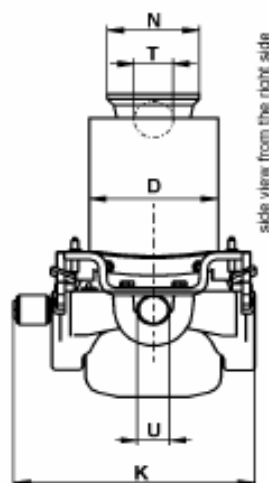
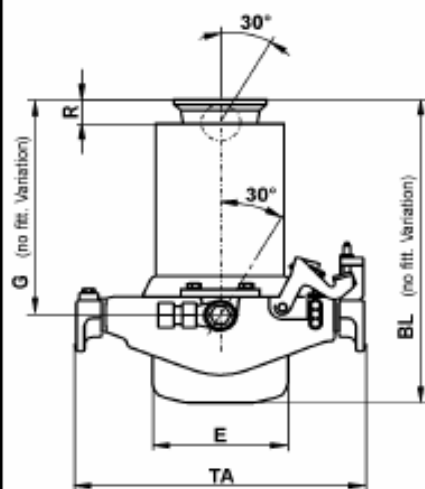


40 HYVA tippsylinder



**GEORG - multi-stage piston
with cardanic ring suspension**
series: KRM 193 . . . (for 3 way tipper truck)
for 21 - 28 to tipping weight

sheet 3

status
11/03

card. ring (cr), see table right below

type	2	3	4
TA	389	472	538
K	341	370	470
U	50	50	60

ball socket (bs), see table right below

type	2	3	4	5
N	108	100	145	145
T	50	60	75	80

- pneumatic switch-off
- rotatable delivery connection for tube Ø20
- max. operat. pressure: 300 bar

type	order - no.	tipping weight (t) at 275 bar	stroke (mm)	tipping length (mm)	length (mm)	G (mm)	stroke volume (Ltr)	weight (kg)	piston diameter								stroke power (kW) at 275 bar	execu- tion cr / bs
									(mm)									
									193	187	145	125	107	90	74			
193 / 7																250	4 / 4 D = 228 E = 240 R = 45	
	R2006P / U1P	25,0	1550	1835	430	240	25,0	188,0								247		
	R2007P / U1P	24,0	1760	2080	460	270	28,0	198,0								175		
	R2008P / U1P	23,0	1970	2330	490	300	30,9	207,0								118		
	R2009P / U1P	21,0	2180	2580	520	330	33,9	217,0										
193 / 6	R2045P / U1P	28,0	1350	1595	430	240	21,5	185,0									4 / 4 D = 228 E = 240 R = 45	
	R2046P / U1P	28,0	1530	1810	460	270	24,3	195,0								280		
	R2047P / U1P	28,0	1710	2020	490	300	27,2	206,0								247		
	R2048P / U1P	28,0	1890	2235	520	330	30,0	216,0								175		
	R2049P / U1P	28,0	2070	2450	550	360	32,9	225,0										



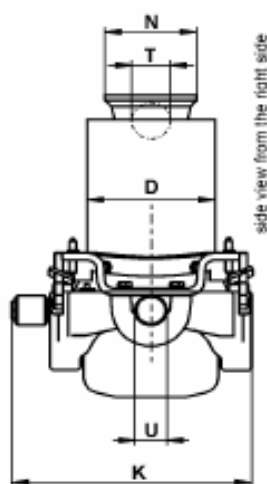
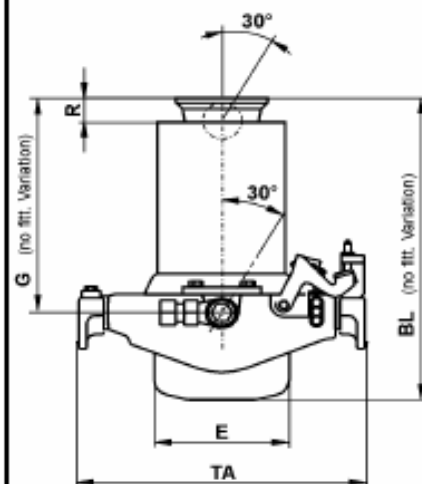


40 HYVA tippsylinder



**GEORG - multi-stage piston
with cardanic ring suspension**
series: KRM 223 . . . (for 3 way tipper truck)
for 25 - 33 to tipping weight

sheet 4

status
02/04

card. ring (cr), see table right below

type	2	3	4
TA	369	472	538
K	341	370	470
U	50	50	60

ball socket (bs), see table right below

type	2	3	4	5
N	108	100	145	145
T	50	60	75	80

- pneumatic switch-off
- rotatable delivery connection for tube Ø20
- max. operat. pressure: 300 bar

type	order - no.	tipping weight (to) at 275 bar	stroke (mm)	tipping length (mm)	length (mm)	G (mm)	stroke volume (L)	weight (kg)	piston diameter (mm)								stroke power (kW) at 275 bar	exeu- tion cr / bs
									223	193	167	145	125	107	90	74		
223 / 9																	250	4 / 4 D = 260 E = 260 R = 58
	R2031P / U1P	25,0	1980	2310	440	238	34,5	220,0									247	
	R2032P / U1P	25,0	2250	2600	470	268	39,5	230,0									175	
	R2033P / U1P	25,0	2520	2960	500	298	44,1	240,0									116	
	R2034P / U1P	25,0	2790	3260	530	328	49	250,0									73	
223 / 8	R2050P / U1P	30,0	1750	2070	440	240	30,4	210,0									300	4 / 4 D = 265 E = 262 R = 50
	R2051P / U1P	30,0	1990	2355	470	270	34,5	220,0									247	
	R2052P / U1P	30,0	2230	2640	500	300	38,7	230,0									175	
	R2053P / U1P	30,0	2470	2925	530	330	42,8	240,0									116	
	R2065P / U1P	30,0	2740	3240	560	360	47,7	250,0										
223 / 7	R2054P / U1P	30,0	1550	1835	425	225	33,3	210,0									300	4 / 4 D = 265 E = 262 R = 35
	R2055P / U1P	30,0	1760	2080	455	255	37,8	220,0									247	
	R2056P / U1P	30,0	1970	2330	485	285	42,3	230,0									175	
	R2057P / U1P	30,0	2180	2580	515	315	46,8	240,0										
	R2058P / U1P	30,0	2390	2830	545	345	51,3	250,0										
223 / 6																		4 / 5 D = 265 E = 262 R = 40
	R2059P / U1P	33,0	1520	1800	460	260	36,3	223,0									300	
	R2060P / U1P	33,0	1700	2010	490	290	40,6	234,0									247	
	R2061P / U1P	33,0	1880	2225	520	320	44,9	245,0										
	R2062P / U1P	33,0	2060	2435	550	350	49,2	256,0										

