



COMPONENT CATALOG
UNDER BODY CYLINDERS

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Hyva's telescopic cylinders are designed for dump trucks and tipping semitrailers. Our tipping cylinders have earned their reputation for reliability and value for money over many years with hundreds of thousands cylinders working around the world, in all weather conditions, confirming Hyva as the world leader in the production of telescopic cylinders. Hyva designs and manufactures a complete range of telescopic tipping cylinders, both for front-end and under body applications. The Hyva cylinder is lightweight, uses less oil and therefore tips and lowers faster and is strong, stable and maintenance free.

Hyva telescopic cylinders

Hyva under body cylinder range

Hyva also offers a complete range of under body cylinders. The heavy duty series are offered up to diameter 223 mm with nine stages. The U(L/M)-series starts at diameter 77 mm with two stages up to 191 mm with eight stages.

- UL range for light duty trailers and vans
- UM range for medium duty truck and (agri) trailers
- KR range for heavy duty trucks and (agri) trailers

Modular design

Thanks to the modular design Hyva can offer a complete range of tipping cylinders assembled to order. Our flexible manufacturing is your best guarantee for a minimum delivery time for the standard range of cylinders. The use of top quality materials keeps wear at a minimum and maintenance simple. For service no special tools are required.

Quality

All Hyva cylinders are fully tested before dispatch (pressure tests up to 1¼ times working pressure). Our customers all over the world acknowledge our reliability. The ISO 9001 standard held since 1991 is your assurance of optimum quality, safety and professionalism.

After sales service

Whatever the age of your equipment and wherever it is working, Hyva's world-wide service network will support you. In case of technical trouble you will be back on the road in no time.

Cylinder type description

- | | |
|-----------|--|
| ULB / ULE | - Under body Light with Ball or Eye |
| UMB / UME | - Under body Medium with Ball or Eye |
| KRM / KRA | - Under body Medium and Heavy for Trailer (KRA) or Rigid (KRM) |

Maximum working pressure

- | | |
|--------------|---------|
| UL cylinders | 190 bar |
| UM cylinders | 220 bar |
| KR cylinders | 275 bar |

Code system tipping cylinders UL & UM series

UMB 149 - 5 - 1480 - K258 - 50 - 3/4" - HC

UMB	149	5	1480	K258	50	3/4"	xx			
UMB								Cylinder type description		
	149							Effective diameter first stage		
		5						Number of extensions	40	
			1480					Total stroke in mm (pull-out incorporated)	45	3/8"
				K258				Closed length	50	1/2"
					50			Tap diameter of base trunnion	55	3/4"
						3/4"		Inlet connection	1"	1HC
							XX	Other options		LT

Code system tipping cylinders KR series

KRM 145 - 4 - 0845 - 152 - G0299 - HC

KRM	145	4	0845	152	G0299	HC	
KRM							Cylinder type description
	145						Effective diameter first stage
		4					Number of extensions
			0845				Total stroke in mm (pull-out incorporated)
				152			1= option E1, 5= option F5, 2= option G2 (see options below this table)
					G0299		Closed length
						HC	Fully Hard Chromed

E = concerning bracket

- 0 Mounting set with knock-off parts
- 1 Bracket diameter 50 with knock-off parts
- 2 Bracket diameter 50 without knock-off parts
- 3 Bracket diameter 60 with knock-off parts
- 4 Bracket diameter 60 without knock-off parts
- 5 No brackets
- 6 Mounting set without knock-off parts

G = concerning upper ball socket set

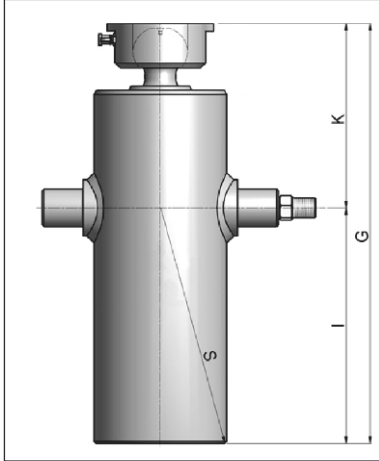
- 2 Diameter 60 with upper ball socket set
- 3 Diameter 60 without upper ball socket set
- 4 Diameter 75 with upper ball socket set
- 5 Diameter 75 without upper ball socket set
- 6 Diameter 80 with upper ball socket set
- 7 Diameter 80 without upper ball socket set

F = concerning cradle

- 0 Without cradle
- 1 Cradle with hydraulic knock-off with 1 line underneath
- 2 Cradle with hydraulic knock-off with 2 lines along the top
- 3 Cradle with hydraulic knock-off with 2 lines underneath
- 4 Cradle without knock-off
- 5 Cradle with pneumatic knock-off

Three-way under body tipping cylinder ULB

ULB cylinders are delivered including a BSPOT adapter. The tipping weight is calculated at 190 bar (is maximum working pressure). The cradle, knock-off and brackets need to be ordered separately.



- K & G dimensions are incl. 20 mm pull out with tolerances of -5/+30mm.

ULB 077

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Max thrust 1 st stage (ton)	G (mm)	I (mm)	K (mm)	S (mm)
71416117	ULB 077-2-0410-K170-40-1/2"-HC	190	6-10	14	1.8	8	410	240	170	245
71416175	ULB 077-2-0610-K170-40-1/2"-HC	190	6-9	17	2.7	8	510	340	170	343
71416217	ULB 077-2-0770-K170-40-1/2"-HC	190	6-9	20	3.4	8	590	420	170	423
71416209	ULB 077-3-0745-K162-40-1/2"-HC	190	4-9	18	2.7	8	442	280	162	284
71416259	ULB 077-3-0925-K162-40-1/2"-HC	190	3-9	21	3.3	8	502	340	162	343
71416299	ULB 077-3-1045-K162-40-1/2"-HC	190	3-9	23	3.7	8	542	380	162	383

ULB 093

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg.)	Volume (l)	Max thrust 1 st stage (ton)	G (mm)	I (mm)	K (mm)	S (mm)
71417175	ULB 093-2-0610-K172-40-1/2"-HC	190	9-12	21	3.9	10	510	338	172	343
71417221	ULB 093-2-0770-K172-40-1/2"-HC	190	9-12	24	4.9	10	590	418	172	422
71417231	ULB 093-3-0805-K172-40-1/2"-HC	190	7-11	22	4.4	10	470	298	172	303
71417265	ULB 093-3-0925-K172-40-1/2"-HC	190	7-11	24	5.0	10	510	338	172	343
71417241	ULB 093-4-0840-K164-40-1/2"-HC	190	4-9	22	3.8	8	402	238	164	244
71417309	ULB 093-4-1080-K164-40-1/2"-HC	190	4-9	25	4.9	8	462	298	164	303
71417349	ULB 093-4-1240-K164-40-1/2"-HC	190	4-9	27	5.7	8	502	338	164	343

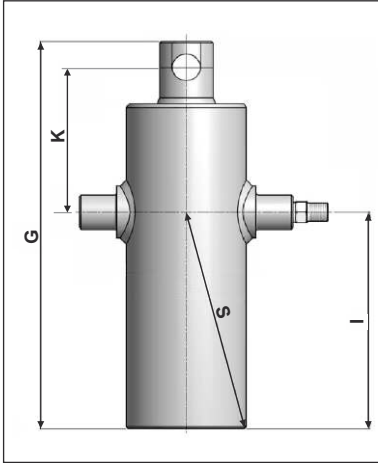
ULB 110

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg.)	Volume (l)	Max thrust 1 st stage (ton)	G (mm)	I (mm)	K (mm)	S (mm)
71418217	ULB 110-2-0755-K177-40-1/2"-HC	190	9-13	31	6.8	11	593	416	177	421
71418261	ULB 110-3-0910-K177-40-1/2"-HC	190	9-13	30	7.1	11	513	336	177	342
71418295	ULB 110-3-1030-K177-40-1/2"-HC	190	10-13	33	8.0	11	553	376	177	382
71418237	ULB 110-4-0825-K177-40-1/2"-HC	190	7-13	26	5.5	11	413	236	177	245
71418305	ULB 110-4-1065-K177-40-1/2"-HC	190	7-13	30	6.4	11	473	296	177	303
71418351	ULB 110-4-1225-K177-40-1/2"-HC	190	7-12	33	8.2	11	513	336	177	342
71418439	ULB 110-4-1545-K177-40-1/2"-HC	190	7-12	38	10.3	11	593	416	177	241
71418297	ULB 110-5-1040-K169-40-1/2"-HC	190	4-9	28	6.0	8	405	236	169	245
71418349	ULB 110-5-1240-K169-40-1/2"-HC	190	4-9	32	7.1	8	445	276	169	284
71418441	ULB 110-5-1540-K169-40-1/2"-HC	190	4-9	36	8.8	8	505	336	169	342
71418497	ULB 110-5-1740-K169-40-1/2"-HC	190	4-9	40	10.0	8	545	376	169	382
71418555	ULB 110-5-1940-K169-40-1/2"-HC	190	4-9	43	11.1	8	585	416	169	421

ULE - UNDER BODY CYLINDERS

Three-way under body tipping cylinder ULE

ULE cylinders are delivered including a BSPOT adapter. The tipping weight is calculated at 190 bar (is maximum working pressure). The cradle, knock-off and brackets need to be ordered separately.



- **K & G** dimensions are incl. 20 mm pull out with tolerances of -5/+30mm.

ULE 077

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg.)	Volume (l)	Max thrust 1 st stage (ton)	G (mm)	I (mm)	K (mm)	S (mm)
71446117	ULE 077-2-0410-K135-40-½"-HC	190	6-10	13	1.8	8	402	240	135	245
71446175	ULE 077-2-0610-K135-40-½"-HC	190	6-9	16	2.7	8	502	340	135	343
71446221	ULE 077-2-0770-K135-40-½"-HC	190	6-9	18	3.4	8	582	420	135	423
71446213	ULE 077-3-0745-K130-40-½"-HC	190	4-9	17	2.7	8	435	280	130	284
71446265	ULE 077-3-0925-K130-40-½"-HC	190	3-9	20	3.3	8	495	340	130	343
71446299	ULE 077-3-1045-K130-40-½"-HC	190	3-9	22	3.7	8	535	380	130	383

ULE 093

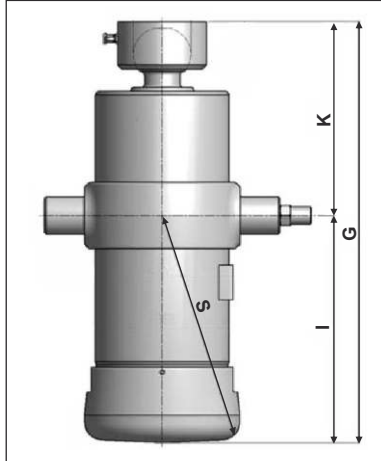
Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg.)	Volume (l)	Max thrust 1 st stage (ton)	G (mm)	I (mm)	K (mm)	S (mm)
71447175	ULE 093-2-0610-K147-40-½"-HC	190	9-12	21	3.9	10	515	338	147	343
71447221	ULE 093-2-0770-K147-40-½"-HC	190	9-12	24	4.9	10	595	418	147	422
71447231	ULE 093-3-0805-K137-40-½"-HC	190	7-11	21	4.4	10	462	298	137	303
71447265	ULE 093-3-0925-K137-40-½"-HC	190	7-11	22	5.0	10	502	338	137	343
71447241	ULE 093-4-0840-K132-40-½"-HC	190	4-9	20	3.8	8	395	238	132	244
71447309	ULE 093-4-1080-K132-40-½"-HC	190	4-9	24	4.9	8	455	298	132	303
71447355	ULE 093-4-1240-K132-40-½"-HC	190	4-9	26	5.7	8	495	338	132	343

ULE 110

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg.)	Volume (l)	Max thrust 1 st stage (ton)	G (mm)	I (mm)	K (mm)	S (mm)
71448217	ULE 110-2-0755-K152-40-½"-HC	190	9-13	31	6.8	11	598	416	152	421
71448258	ULE 110-3-0910-K152-40-½"-HC	190	9-13	29	7.1	11	518	336	152	342
71448295	ULE 110-3-1030-K152-40-½"-HC	190	10-13	32	8.0	11	558	376	152	382
71448237	ULE 110-4-0825-K142-40-½"-HC	190	7-13	25	5.5	11	405	236	142	245
71448305	ULE 110-4-1065-K142-40-½"-HC	190	7-13	29	7.1	11	465	296	142	303
71448347	ULE 110-4-1225-K142-40-½"-HC	190	7-12	31	8.2	11	505	336	142	342
71448441	ULE 110-4-1545-K142-40-½"-HC	190	7-12	37	10.3	11	585	416	142	421
71448297	ULE 110-5-1040-K137-40-½"-HC	190	4-9	27	6.0	8	398	236	137	245
71448355	ULE 110-5-1240-K137-40-½"-HC	190	4-9	31	7.1	8	438	276	137	284
71448431	ULE 110-5-1540-K137-40-½"-HC	190	4-9	35	8.8	8	498	336	137	342
71448497	ULE 110-5-1740-K137-40-½"-HC	190	4-9	38	10.0	8	538	376	137	382
71448555	ULE 110-5-1940-K137-40-½"-HC	190	4-9	42	11.1	8	578	416	137	421

Three-way under body tipping cylinder UMB

UMB cylinders are delivered including a BSPOT adapter. The tipping weight is calculated at 220 bar (is maximum working pressure). The cradle, knock-off and brackets need to be ordered separately.



- K & G dimensions are incl. 20 mm pull out with tolerances of -5/+30mm.

UMB 129

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg.)	Volume (l)	Max thrust 1 st stage (ton)	G (mm)	I (mm)	K (mm)	S (mm)
71404203	UMB 129-3-0700-K318-45-1/2"-HC	220	15-21	46	7.4	17.5	468	150	318	168
71404287	UMB 129-3-1000-K212-45-1/2"-HC	220	15-20	42	9.7	17.5	568	356	212	229
71404389	UMB 129-3-1360-K212-45-1/2"-HC	220	15-20	64	14.4	17.5	702	490	212	496
71404291	UMB 129-4-1020-K205-45-1/2"-HC	220	12-20	49	9.3	17.5	481	276	205	286
71404429	UMB 129-4-1500-K205-45-1/2"-HC	220	11-20	60	10.8	17.5	601	396	205	325
71404337	UMB 129-4-1180-K205-45-1/2"-HC	220	11-20	52	12.2	17.5	521	316	205	364
71404385	UMB 129-4-1340-K205-45-1/2"-HC	220	11-20	56	13.7	17.5	561	356	205	403
71404521	UMB 129-4-1820-K205-45-1/2"-HC	220	11-20	68	16.6	17.5	695	490	205	496
71404421	UMB 129-5-1480-K192-45-1/2"-HC	220	6-17	59	7.7	15	508	316	192	229
71404537	UMB 129-5-1880-K192-45-1/2"-HC	220	6-17	67	10.0	15	588	396	192	286
71404281	UMB 129-5-0980-K192-45-1/2"-HC	220	7-17	46	11.6	15	408	216	192	325
71404365	UMB 129-5-1280-K192-45-1/2"-HC	220	6-17	53	14.7	15	468	276	192	403
71404567	UMB 129-5-1980-K192-45-1/2"-HC	220	6-17	70	15.5	15	622	430	192	436
71404659	UMB 129-5-2280-K192-45-1/2"-HC	220	7-18	76	17.8	15	682	490	192	496
71404709	UMB 129-5-2480-K192-45-1/2"-HC	220	7-18	81	19.4	15	722	530	192	535

UMB 149

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg.)	Volume (l)	Max thrust 1 st stage (ton)	G (mm)	I (mm)	K (mm)	S (mm)
71405389	UMB 149-3-1360-K265-50-3/4"-HC	220	22-29	79	19.6	25	706	441	265	449
71405467	UMB 149-3-1630-K265-50-3/4"-HC	220	22-28	88	23.5	25	796	531	265	538
71405637	UMB 149-3-2230-K265-50-3/4"-HC	220	25-31	107	32.1	25	996	731	265	736
71405210	UMB 149-4-0700-K265-50-3/4"-HC	220	21-30	56	8.8	25	432	167	265	187
71405223	UMB 149-4-0780-K265-50-3/4"-HC	220	21-29	56	9.8	25	432	167	265	187
71405291	UMB 149-4-1020-K265-50-3/4"-HC	220	19-29	62	12.9	25	492	227	265	242
71405429	UMB 149-4-1500-K265-50-3/4"-HC	220	18-28	76	18.9	25	612	347	265	357
71405521	UMB 149-4-1820-K265-50-3/4"-HC	220	17-28	86	23.0	25	706	441	265	449
71405623	UMB 149-4-2180-K265-50-3/4"-HC	220	20-32	96	27.5	25	796	531	265	538
71405725	UMB 149-4-2540-K265-50-3/4"-HC	220	19-31	106	32.1	25	886	621	265	627
71405851	UMB 149-4-2980-K265-50-3/4"-HC	220	19-31	118	34.7	25	996	731	265	736
71405281	UMB 149-5-0980-K258-50-3/4"-HC	220	13-23	57	10.8	20	425	167	258	187
71405365	UMB 149-5-1280-K258-50-3/4"-HC	220	12-23	64	14.1	20	485	227	258	242
71405421	UMB 149-5-1480-K258-50-3/4"-HC	220	12-23	69	16.3	20	525	267	258	280
71405537	UMB 149-5-1880-K258-50-3/4"-HC	220	11-23	79	20.7	20	605	347	258	357
71405709	UMB 149-5-2480-K258-50-3/4"-HC	220	13-25	95	27.4	20	739	481	258	488
71405439	UMB 149-6-1540-K245-50-3/4"-HC	220	6-17	68	14.8	15	472	227	245	242
71405509	UMB 149-6-1780-K245-50-3/4"-HC	220	6-17	75	17.2	15	512	267	245	280
71405681	UMB 149-6-2380-K245-50-3/4"-HC	220	7-19	89	22.9	15	626	381	245	390

UMB 169

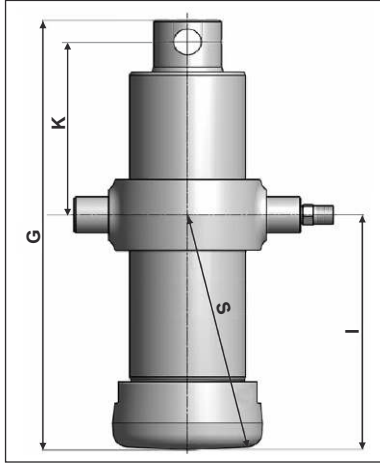
Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg.)	Volume (l)	Max thrust 1 st stage (ton)	G (mm)	I (mm)	K (mm)	S (mm)
71406291	UMB 169-4-1020-K265-50-3/4"-HC	220	21-29	74	17.2	25	492	227	265	246
71406521	UMB 169-4-1820-K265-50-3/4"-HC	220	22-28	102	30.6	25	706	441	265	451
71406557	UMB 169-4-1980-K265-50-3/4"-HC	220	22-28	107	33.3	25	746	481	265	490
71406623	UMB 169-4-2180-K265-50-3/4"-HC	220	25-32	114	36.7	25	796	531	265	540
71406727	UMB 169-4-2540-K265-50-3/4"-HC	220	25-32	126	42.8	25	886	621	265	628
71406851	UMB 169-4-2980-K265-50-3/4"-HC	220	25-31	140	50.2	25	996	731	265	737
71406367	UMB 169-5-1280-K265-50-3/4"-HC	220	20-29	78	19.1	25	492	227	265	246
71406421	UMB 169-5-1480-K265-50-3/4"-HC	220	19-29	84	22.1	25	532	267	265	284
71406537	UMB 169-5-1880-K265-50-3/4"-HC	220	18-28	96	28.1	25	612	347	265	360
71406567	UMB 169-5-1980-K265-50-3/4"-HC	220	18-28	100	29.5	25	646	381	265	393
71406659	UMB 169-5-2280-K265-50-3/4"-HC	220	21-32	109	34.0	25	706	441	265	451
71406707	UMB 169-5-2480-K265-50-3/4"-HC	220	21-32	115	37.0	25	746	481	265	490
71406781	UMB 169-5-2730-K265-50-3/4"-HC	220	20-31	122	40.7	25	796	531	265	540
71406439	UMB 169-6-1540-K258-50-3/4"-HC	220	12-23	79	20.3	20	485	227	258	246
71406509	UMB 169-6-1780-K258-50-3/4"-HC	220	12-23	86	23.5	20	525	267	258	284
71406578	UMB 169-6-2020-K258-50-3/4"-HC	220	14-26	92	26.7	20	565	307	258	322
71406647	UMB 169-6-2260-K258-50-3/4"-HC	220	13-25	99	29.9	20	605	347	258	360
71406681	UMB 169-6-2380-K245-50-3/4"-HC	220	13-25	104	31.4	20	626	381	245	393
71406783	UMB 169-6-2740-K258-50-3/4"-HC	220	13-25	113	36.3	20	699	441	258	451
71406852	UMB 169-6-2980-K258-50-3/4"-HC	220	13-25	119	39.4	20	739	481	258	490
71406937	UMB 169-6-3280-K258-50-3/4"-HC	220	13-25	127	43.3	20	789	531	258	540
71406951	UMB 169-6-3820-K258-50-3/4"-HC	220	12-25	141	50.5	20	879	621	258	628
71406517	UMB 169-7-1800-K245-50-3/4"-HC	220	7-17	85	21.1	15	472	227	245	246
71406595	UMB 169-7-2080-K245-50-3/4"-HC	220	8-19	90	24.3	15	512	267	245	284
71406675	UMB 169-7-2360-K245-50-3/4"-HC	220	7-19	99	27.6	15	552	307	245	322
71406795	UMB 169-7-2780-K245-50-3/4"-HC	220	7-19	110	32.5	15	626	381	245	393

UMB 191

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg.)	Volume (l)	Max thrust 1 st stage (ton)	G (mm)	I (mm)	K (mm)	S (mm)
71407291	UMB 191-4-1020-K270-60-3/4"-HC	220	27-37	91	22.3	32	495	225	270	249
71407337	UMB 191-5-1180-K270-60-3/4"-HC	220	27-37	92	23.1	32	475	205	270	231
71407652	UMB 191-5-2280-K270-60-3/4"-HC	220	31-41	133	44.7	32	709	439	270	452
71407709	UMB 191-5-2480-K270-60-3/4"-HC	220	30-40	140	48.6	32	749	479	270	491
71407781	UMB 191-5-2730-K270-60-3/4"-HC	220	30-40	149	53.5	32	799	529	270	540
71407909	UMB 191-5-3180-K270-60-3/4"-HC	220	29-40	165	62.3	32	889	619	270	628
71407511	UMB 191-6-1780-K270-60-3/4"-HC	220	19-34	107	31.2	30	535	265	270	286
71407647	UMB 191-6-2260-K270-60-3/4"-HC	220	22-38	122	39.6	30	615	345	270	361
71407691	UMB 191-6-2380-K270-60-3/4"-HC	220	21-38	129	41.7	30	649	379	270	394
71407783	UMB 191-6-2740-K270-60-3/4"-HC	220	21-38	140	48.0	30	709	439	270	452
71407853	UMB 191-6-2980-K270-60-3/4"-HC	220	20-38	148	52.2	30	749	479	270	491
71407475	UMB 191-7-1660-K263-60-3/4"-HC	220	12-23	97	26.0	20	468	205	263	231
71407519	UMB 191-7-1800-K263-60-3/4"-HC	220	12-28	108	28.2	20	488	225	263	249
71407595	UMB 191-7-2080-K263-60-3/4"-HC	220	14-25	109	32.6	20	528	265	263	286
71407675	UMB 191-7-2360-K263-60-3/4"-HC	220	14-25	117	37.0	20	568	305	263	323
71407589	UMB 191-8-2060-K250-60-3/4"-HC	220	8-24	107	29.0	20	475	225	250	249
71407681	UMB 191-8-2380-K250-60-3/4"-HC	220	7-22	116	33.5	15	515	265	250	286
71407989	UMB 191-8-3980-K250-60-3/4"-HC	220	7-19	149	56.0	15	729	479	250	491

Three-way under body tipping cylinder UME

UME cylinders are delivered including a BSPOT adapter. The tipping weight is calculated at 220 bar (is maximum working pressure). The cradle, knock-off and brackets need to be ordered separately.



- **K & G** dimensions are incl. 20 mm pull out with tolerances of -5/+30mm.

UME 129

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg.)	Volume (l)	Max thrust 1 st stage (ton)	G (mm)	I (mm)	K (mm)	S (mm)
71434201	UME 129-3-0700-K282-45-½"-HC	220	15-21	43	7.4	17.5	459	142	282	161
71434287	UME 129-3-1000-K168-45-½"-HC	220	15-20	51	10.6	17.5	554	356	168	364
71434389	UME 129-3-1360-K221-45-½"-HC	220	15-20	62	14.4	17.5	688	437	221	443
71434205	UME 129-4-0700-K242-45-½"-HC	220	13-21	41	6.4	17.5	414	142	242	161
71434295	UME 129-4-1020-K168-45-½"-HC	220	12-20	47	9.3	17.5	474	276	168	286
71434337	UME 129-4-1180-K168-45-½"-HC	220	11-20	50	10.8	17.5	514	316	168	325
71434383	UME 129-4-1340-K168-45-½"-HC	220	11-20	54	12.2	17.5	554	356	168	364
71434429	UME 129-4-1500-K168-45-½"-HC	220	11-20	58	13.7	17.5	594	396	168	403
71434521	UME 129-4-1820-K221-45-½"-HC	220	11-20	66	16.6	17.5	688	437	221	443
71434281	UME 129-5-0980-K158-45-½"-HC	220	7-15	45	7.7	13	401	216	158	229
71434367	UME 129-5-1280-K158-45-½"-HC	220	6-15	51	10.0	13	461	276	158	286
71434423	UME 129-5-1480-K158-45-½"-HC	220	6-15	56	11.6	13	501	316	158	325
71434537	UME 129-5-1880-K158-45-½"-HC	220	6-15	64	14.7	13	581	396	158	403
71434567	UME 129-5-1980-K158-45-½"-HC	220	6-15	68	15.5	13	615	430	158	436
71434651	UME 129-5-2280-K158-45-½"-HC	220	7-16	75	17.8	13	675	490	158	496
71434709	UME 129-5-2480-K158-45-½"-HC	220	7-16	79	19.4	13	715	530	158	535

UME 149

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg.)	Volume (l)	Max thrust 1 st stage (ton)	G (mm)	I (mm)	K (mm)	S (mm)
71435389	UME 149-3-1360-K221-50-¾"-HC	220	22-29	79	19.6	25	707	451	221	459
71435467	UME 149-3-1630-K231-50-¾"-HC	220	22-28	87	23.5	25	797	531	231	538
71435637	UME 149-3-2230-K231-50-¾"-HC	220	25-31	106	32.1	25	997	731	231	736
71435223	UME 149-4-0780-K221-50-¾"-HC	220	21-29	53	9.8	25	418	167	221	187
71435291	UME 149-4-1020-K221-50-¾"-HC	220	19-29	60	12.9	25	478	227	221	242
71435429	UME 149-4-1500-K221-50-¾"-HC	220	18-28	73	18.9	25	598	347	221	357
71435521	UME 149-4-1820-K221-50-¾"-HC	220	17-28	84	23.0	25	692	441	221	449
71435623	UME 149-4-2180-K221-50-¾"-HC	220	20-32	93	27.5	25	782	531	221	538
71435727	UME 149-4-2540-K221-50-¾"-HC	220	19-31	103	32.1	25	872	621	221	627
71435851	UME 149-4-2980-K221-50-¾"-HC	220	19-31	116	34.7	25	982	731	221	736
71435281	UME 149-5-0980-K221-50-¾"-HC	220	13-27	54	10.8	23	418	167	221	187
71435367	UME 149-5-1280-K221-50-¾"-HC	220	12-26	62	14.1	23	478	227	221	242
71435423	UME 149-5-1480-K221-50-¾"-HC	220	12-26	67	16.3	23	518	267	221	280
71435537	UME 149-5-1880-K221-50-¾"-HC	220	11-26	76	20.7	23	598	347	221	357
71435709	UME 149-5-2480-K221-50-¾"-HC	220	13-29	93	27.4	23	732	481	221	488
71435441	UME 149-6-1540-K211-50-¾"-HC	220	6-15	66	14.8	13	465	227	211	242
71435509	UME 149-6-1780-K211-50-¾"-HC	220	6-15	72	17.2	13	505	267	211	280
71435681	UME 149-6-2380-K211-50-¾"-HC	220	7-16	88	22.9	13	619	381	211	390

UME - UNDER BODY CYLINDERS

UME 169

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg.)	Volume (l)	Max thrust 1 st stage (ton)	G (mm)	I (mm)	K (mm)	S (mm)
71436291	UME 169-4-1020-K231-50-¾"-HC	220	21-29	73	17.2	25	493	227	231	246
71436521	UME 169-4-1820-K231-50-¾"-HC	220	22-28	102	30.6	25	707	441	231	451
71436557	UME 169-4-1980-K231-50-¾"-HC	220	22-28	107	33.3	25	747	481	231	490
71436623	UME 169-4-2180-K231-50-¾"-HC	220	25-32	114	36.7	25	797	531	231	540
71436727	UME 169-4-2540-K231-50-¾"-HC	220	25-32	125	42.8	25	887	621	231	628
71436865	UME 169-4-2980-K231-50-¾"-HC	220	25-31	140	50.2	25	997	731	231	737
71436367	UME 169-5-1280-K221-50-¾"-HC	220	20-29	75	19.1	25	478	227	221	316
71436423	UME 169-5-1480-K221-50-¾"-HC	220	19-29	81	22.1	25	518	267	221	284
71436537	UME 169-5-1880-K221-50-¾"-HC	220	18-28	93	28.1	25	603	347	221	360
71436567	UME 169-5-1980-K221-50-¾"-HC	220	18-28	98	29.5	25	632	381	221	393
71436651	UME 169-5-2280-K221-50-¾"-HC	220	21-32	107	34.0	25	692	441	221	451
71436709	UME 169-5-2480-K221-50-¾"-HC	220	21-32	113	37.0	25	732	481	221	490
71436781	UME 169-5-2730-K221-50-¾"-HC	220	20-31	120	40.7	25	782	531	221	540
71436441	UME 169-6-1540-K221-50-¾"-HC	220	12-26	77	20.3	23	478	227	221	246
71436509	UME 169-6-1780-K221-50-¾"-HC	220	12-26	84	23.5	23	518	267	221	284
71436577	UME 169-6-2020-K221-50-¾"-HC	220	14-29	90	26.7	23	558	307	221	322
71436647	UME 169-6-2260-K221-50-¾"-HC	220	13-29	96	29.9	23	598	347	221	360
71436681	UME 169-6-2380-K221-50-¾"-HC	220	13-29	102	31.4	23	632	381	221	393
71436823	UME 169-6-2740-K221-50-¾"-HC	220	13-29	111	36.2	23	692	441	221	451
71436851	UME 169-6-2980-K221-50-¾"-HC	220	13-29	117	39.4	23	732	481	221	490
71436937	UME 169-6-3280-K221-50-¾"-HC	220	13-29	125	43.3	23	782	531	221	540
71436991	UME 169-6-3820-K221-50-¾"-HC	220	12-29	139	50.5	23	872	621	221	628
71436515	UME 169-7-1800-K211-50-¾"-HC	220	7-15	82	21.1	13	465	227	211	246
71436595	UME 169-7-2080-K221-50-¾"-HC	220	8-17	89	24.3	13	505	257	221	274
71436673	UME 169-7-2360-K211-50-¾"-HC	220	7-16	96	27.6	13	545	307	211	322
71436795	UME 169-7-2780-K211-50-¾"-HC	220	7-16	109	32.5	13	619	381	211	393

UME 191

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg.)	Volume (l)	Max thrust 1 st stage (ton)	G (mm)	I (mm)	K (mm)	S (mm)
71437337	UME 191-5-1180-K236-60-¾"-HC	220	27-37	92	23.1	32	476	205	236	231
71437651	UME 191-5-2280-K236-60-¾"-HC	220	31-40	133	44.7	32	710	439	236	452
71437709	UME 191-5-2480-K236-60-¾"-HC	220	30-40	140	48.6	32	750	479	236	491
71437781	UME 191-5-2730-K345-60-¾"-HC	220	30-40	149	53.5	32	800	420	345	434
71437909	UME 191-5-3180-K345-60-¾"-HC	220	29-40	164	62.3	32	890	510	345	521
71437509	UME 191-6-1780-K226-60-¾"-HC	220	19-34	105	31.2	30	521	265	226	286
71437647	UME 191-6-2260-K226-60-¾"-HC	220	22-38	120	39.6	30	601	345	226	361
71437683	UME 191-6-2380-K226-60-¾"-HC	220	21-38	126	41.7	30	635	379	226	394
71437783	UME 191-6-2740-K330-60-¾"-HC	220	21-38	138	48.0	30	700	335	330	352
71437851	UME 191-6-2980-K226-60-¾"-HC	220	20-38	145	52.2	30	735	479	226	491
71437475	UME 191-7-1660-K226-60-¾"-HC	220	12-23	95	26.0	20	461	205	226	231
71437515	UME 191-7-1800-K226-60-¾"-HC	220	12-23	99	28.2	20	481	225	226	249
71437595	UME 191-7-2080-K226-60-¾"-HC	220	14-25	107	32.6	20	521	265	226	286
71437675	UME 191-7-2360-K330-60-¾"-HC	220	14-25	115	37.0	20	561	201	330	228
71437589	UME 191-8-2060-K216-60-¾"-HC	220	8-17	104	29.0	13	468	225	216	155
71437691	UME 191-8-2380-K216-60-¾"-HC	220	7-16	112	33.5	13	508	265	216	286
71437989	UME 191-8-3980-K216-60-¾"-HC	220	7-16	159	56.0	13	722	479	216	491

Seal kits for ULB/ULE cylinders

Part no.	Description
71906620K	Seal kit complete UL 77 - 2
71906630K	Seal kit complete UL 77 - 3
71906720K	Seal kit complete UL 93 - 2
71906730K	Seal kit complete UL 93 - 3
71906740K	Seal kit complete UL 93 - 4
71906820K	Seal kit complete UL 110 - 2
71906821K	Seal kit complete UL 110 - 2 (>500)*
71906830K	Seal kit complete UL 110 - 3
71906840K	Seal kit complete UL 110 - 4
71906850K	Seal kit complete UL 110 - 5

* Kits marked with (>XXX) to be used for cylinders with the tube lengths exceeding the listed length. Tube length can be found on the second page of the spec sheet.



Seal kits for UMB/UME cylinders

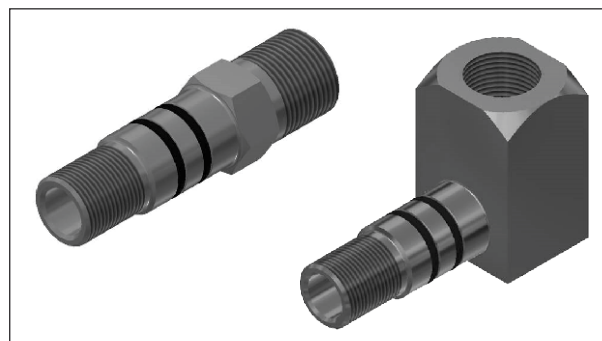
Part no.	Description
71904430K	Seal kit complete UM 129 - 3
71904440K	Seal kit complete UM 129 - 4
71904450K	Seal kit complete UM 129 - 5
71904451K	Seal kit complete UM 129 - 5 (>500)*
71904540K	Seal kit complete UM 149 - 4
71904550K	Seal kit complete UM 149 - 5
71904560K	Seal kit complete UM 149 - 6
71904650K	Seal kit complete UM 169 - 5
71904660K	Seal kit complete UM 169 - 6
71904670K	Seal kit complete UM 169 - 7
71904760K	Seal kit complete UM 191 - 6
719 04770K	Seal kit complete UM 191 - 7
71904780K	Seal kit complete UM 191 - 8

* Kits marked with (>XXX) to be used for cylinders with the tube lengths exceeding the listed length. Tube length can be found on the second page of the spec sheet.



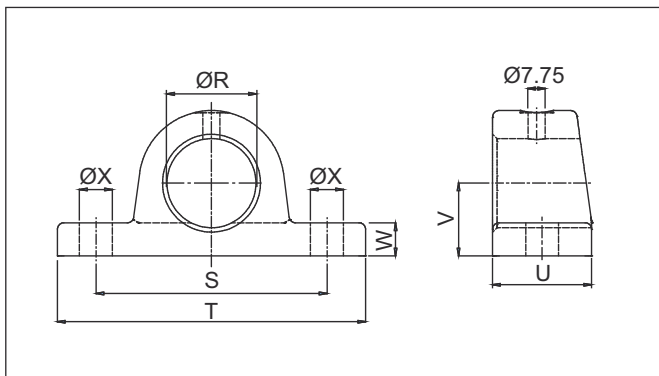
Adaptors for oil inlet UMB/UME

Part no.	Description
73103000	Oil inlet nipple UM ½" - M18 x 1.5
73103002	Oil inlet nipple UM ¾" - M22 x 1.5
73103015	Oil inlet nipple 90° UM ½" - M18 x 1.5
73103016	Oil inlet nipple 90° UM ¾" - M22 x 1.5



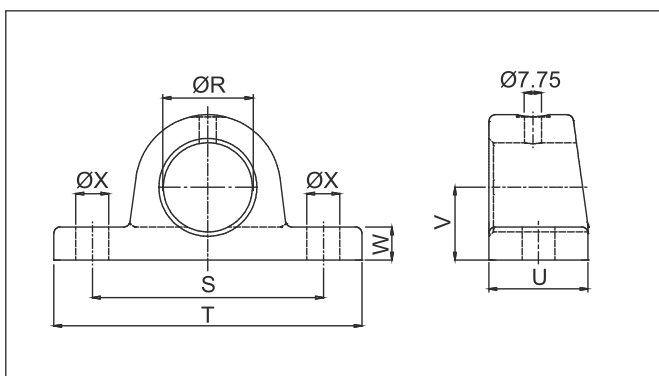
Brackets for UL cylinders (2 required)

Part no.	Description	ØR (mm)	S (mm)	T (mm)	U (mm)	V (mm)	W (mm)	ØX (mm)	Weight (kg)
73105071	Bracket UL 077-110 to bolt D40 U40	40.5	105	140	40	33	15	15	1.1



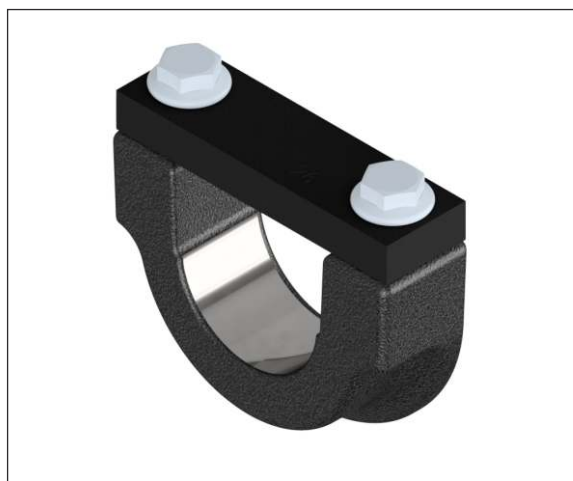
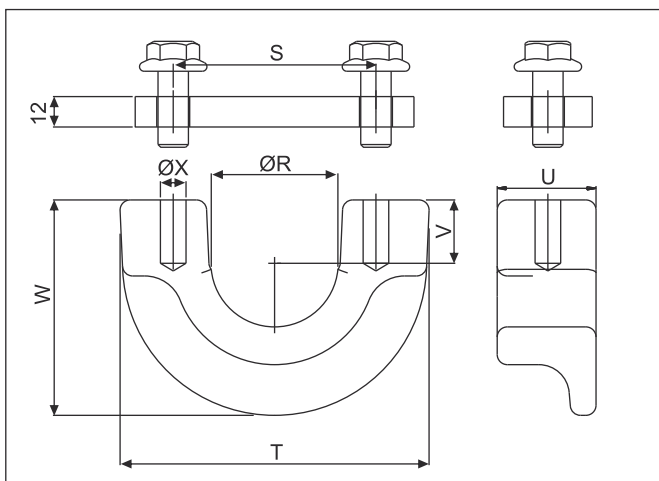
Brackets for UM cylinders (2 required)

Part no.	Description	ØR (mm)	S (mm)	T (mm)	U (mm)	V (mm)	W (mm)	ØX (mm)	Weight (kg)
73105073	Bracket UM 129 to bolt D45	45.5	105	140	45	33	15	15	1.0
73105076	Bracket UM 149-169 to bolt D50	50.5	120	155	50	37	17	15	1.4
73105079	Bracket UM 191 to bolt D60	60.5	130	165	50	42	17	15	1.6



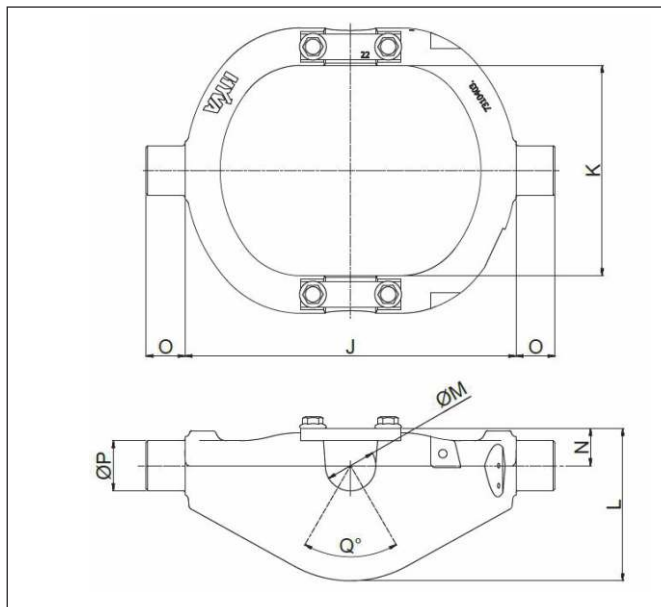
Weldable brackets UL/UM for cradles (2 required)

Part no.	Description	For Cradle	ØR (mm)	S (mm)	T (mm)	U (mm)	V (mm)	W (mm)	ØX	Weight (kg)
73105034	Welding bracket UL D40	077-110	40	70	112	39	20	75	M12	1.5
73105035	Welding bracket UM D50	129-169	50	80	122	39	20	85	M12	1.5
73105036	Welding bracket UM D60	191	60	90	122	39	25	90	M12	2.1



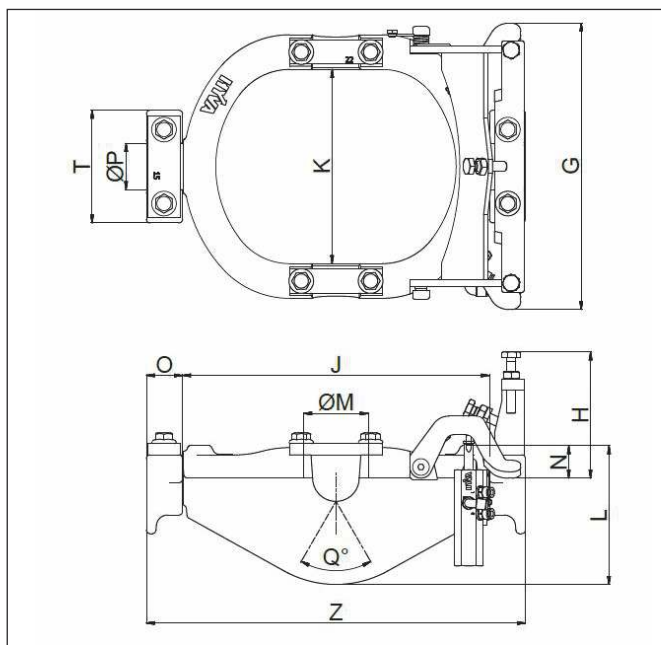
Cradles for UL/UM cylinders

Part no.	Description	J (mm)	K (mm)	L (mm)	ØM (mm)	N (mm)	O (mm)	ØP (mm)	Q (°)	Weight (kg)
73104003	Cradle UL 077-093 - PIN40-D40	225	132	107	40	32	39	40	60	7.3
73104011	Cradle UL 110 - PIN40-D40	230	152	112	40	32	39	40	60	8.3
73104021	Cradle UM 129 - PIN50-D45	280	180	135	45	35	39	50	60	13.8
73104031	Cradle UM 149 - PIN50-D50	330	210	152	50	37	39	50	60	20.4
73104041	Cradle UM 169 - PIN50-D50	380	235	162	50	37	39	50	60	26.5
73104051	Cradle UM 191 - PIN60-D60	400	250	190	60	45	39	60	60	38.9



Cradles with knock-off and brackets for UM cylinders

Part no.	Description	G (mm)	H (mm)	J (mm)	K (mm)	L (mm)	ØM (mm)	N (mm)	O (mm)	ØP (mm)	Q (°)	T (mm)	Weight (kg)
73104023	Cradle UM 129 - KOPN-PIN50-D45	240	137	280	180	135	45	35	39	50	60	122	12.8
73104033	Cradle UM 149 - KOPN-PIN50-D50	310	137	330	210	152	50	37	39	50	60	122	26.7
73104043	Cradle UM 169 - KOPN-PIN50-D50	320	137	380	235	162	50	37	39	50	60	122	33.0
73104053	Cradle UM 191 - KOPN-PIN60-D60	340	147	400	250	190	60	45	39	60	60	122	45.6

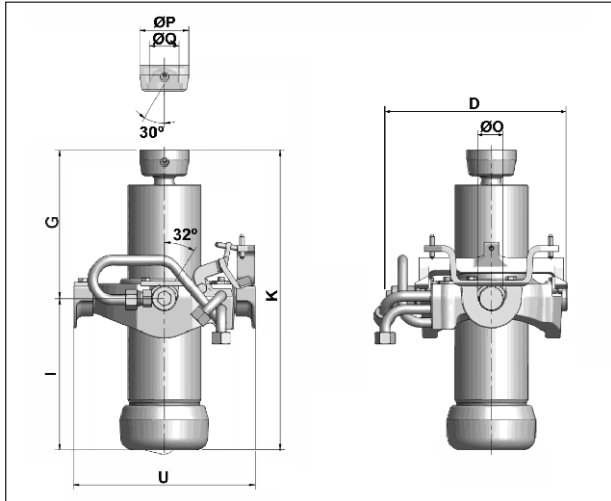


Three-way under body tipping cylinder KRA

The working pressure of the KRA cylinder is 275 Bar.

The cradle, knock-off and brackets are already mounted. KRA standard has a hydraulic knock-off.

The tipping weight is calculated at maximum working pressure.



- **G & K** dimensions are incl. 20 mm pull out with tolerances of -0/+15mm.

Cradle dimensions

Cradle	Type 2	Type 3	Type 4
U(mm)	369	472	538
D(mm)	359	370	455
O(mm)	50	50	60

Ball & cup dimensions

Ball & cup	Type A	Type B	Type C
P(mm)	100	145	145
Q(mm)	60	75	80

KRA 107

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (L)	G (mm)	I (mm)	K (mm)	Cradle/ Ball	Knock-off type
R73335033	KRA 107-3-1355-033-G0371-HC	275	16	86	9	371	312	683	2/A	Hydr.

KRA 125

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (L)	G (mm)	I (mm)	K (mm)	Cradle/ Ball	Knock-off type
R74435033	KRA 125-4-1615-033-G0321-HC	275	16	98	13	321	316	637	2/A	Hydr.
R74437242	KRA 125-4-1815-242-G0291-HC	275	15	102	15	291	396	687	2/A	-

KRA 145

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (L)	G (mm)	I (mm)	K (mm)	Cradle/ Ball	Knock-off type
R75541643	KRA 145-5-2020-643-G0321-HC	275	18	113	20	321	320	641	2/A	-

KRA 167

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (L)	G (mm)	I (mm)	K (mm)	Cradle/ Ball	Knock-off type
R76343037	KRA 167-3-2545-037-G0521-HC	275	38	273	43	521	620	1141	3/C	Hydr.
R76541647	KRA 167-5-2015-647-G0341-HC	275	27	163	27	341	320	661	3/C	-
R76577132	KRA 167-5-3865-132-G0506-HC	275	21	248	51	506	535	1041	3/A	Hydr.

KRA 193

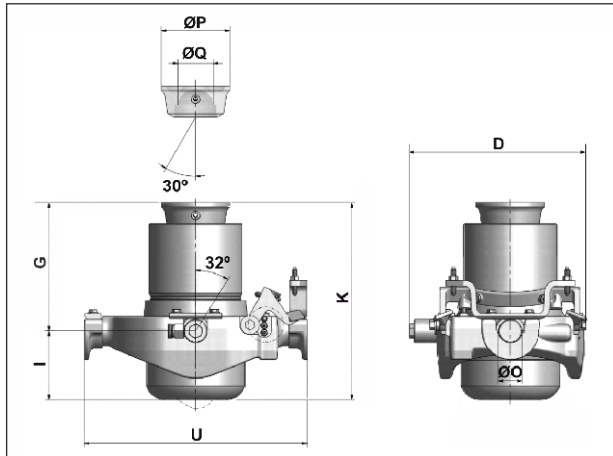
Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (L)	G (mm)	I (mm)	K (mm)	Cradle/ Ball	Knock-off type
R77467037	KRA 193-4-3400-037-G0521-HC	275	44	381	68	521	625	1146	3/C	Hydr.

Three-way under body tipping cylinder KRM

The working pressure of the KRM cylinder is 275 Bar.

The cradle, knock-off and brackets are already mounted. KRM standard has a pneumatic knock-off.

The tipping weight is calculated at maximum working pressure.



- **G & K** dimensions are incl. 20 mm pull out with tolerances of -0/+15mm.

Cradle dimensions

Cradle	Type 2	Type 3	Type 4
U(mm)	369	472	538
D(mm)	359	370	455
O(mm)	50	50	60

Ball & cup dimensions

Ball & cup	Type A	Type B	Type C
P(mm)	100	145	145
Q(mm)	60	75	80

KRM 145

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (L)	G (mm)	I (mm)	K (mm)	Cradle/Ball	Knock-off type
R65417152	KRM 145-4-0845-152-G0299-HC	300	25	90	10	299	130	429	2/A	Pneu
R65419152	KRM 145-4-0945-152-G0324-HC	300	25	93	11	324	130	454	2/A	Pneu
R65627152	KRM 145-6-1425-152-G0324-HC	300	15	91	12	324	130	454	2/A	Pneu
R65633152	KRM 145-6-1605-152-G0354-HC	300	14	96	14	354	130	484	2/A	Pneu
R65635152	KRM 145-6-1785-152-G0384-HC	300	14	100	16	384	130	514	2/A	Pneu

KRM 167

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (L)	G (mm)	I (mm)	K (mm)	Cradle/Ball	Knock-off type
R66627152	KRM 167-6-1435-152-G0309-HC	300	22	129	17	309	145	454	3/A	Pneu
R66633152	KRM 167-6-1615-152-G0339-HC	300	21	135	20	339	145	484	3/A	Pneu
R66635643	KRM 167-6-1795-643-G0369-HC	300	19	133	22	369	145	514	3/A	Pneu
R66639643	KRM 167-6-1975-643-G0399-HC	300	18	139	24	399	145	544	3/A	-
R66729152	KRM 167-7-1465-152-G0286-HC	300	19	124	16	286	145	431	3/A	Pneu
R66731152	KRM 167-7-1570-152-G0301-HC	300	18	126	17	301	145	446	3/A	Pneu
R66737152	KRM 167-7-1885-152-G0346-HC	300	17	135	20	346	145	491	3/A	Pneu

KRM 193

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (L)	G (mm)	I (mm)	K (mm)	Cradle/Ball	Knock-off type
R67737354	KRM 193-7-1895-354-G0319-HC	300	23	209	28	319	190	509	4/B	Pneu
R67745354	KRM 193-7-2105-354-G0349-HC	300	21	216	31	349	190	539	4/B	Pneu
R67835352	KRM 193-8-1725-352-G0256-HC	300	20	192	23	256	190	446	4/A	Pneu
R67839352	KRM 193-8-1925-352-G0281-HC	300	20	199	25	281	190	471	4/A	Pneu
R67843352	KRM 193-8-2165-352-G0311-HC	300	19	207	28	311	190	501	4/A	Pneu

KRM 223

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (L)	G (mm)	I (mm)	K (mm)	Cradle/Ball	Knock-off type
R68743354	KRM 223-7-2120-354-G0334-HC	300	30	245	42	334	200	534	4/B	Pneu
R68747354	KRM 223-7-2330-354-G0364-HC	300	30	255	46	364	200	564	4/B	Pneu
R68845354	KRM 223-8-2220-354-G0321-HC	300	30	235	40	321	200	521	4/B	Pneu
R68847354	KRM 223-8-2460-354-G0351-HC	300	30	246	44	351	200	551	4/B	Pneu
R68949354	KRM 223-9-2495-354-G0321-HC	300	25	235	40	321	200	521	4/B	Pneu
R68957354	KRM 223-9-2765-354-G0351-HC	300	25	245	45	351	200	551	4/B	Pneu

Seal kits for KRM/KRA cylinders

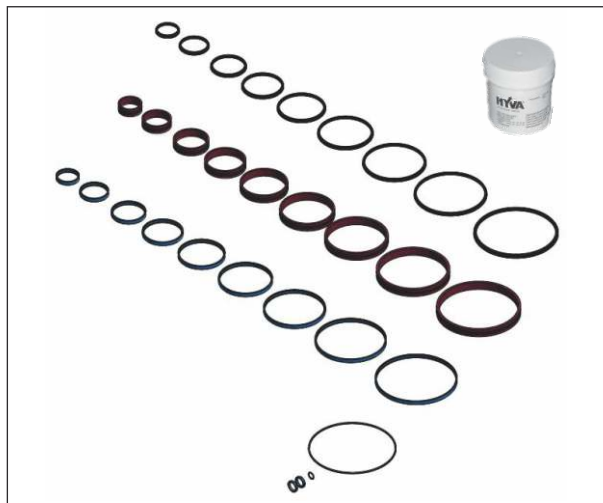
Part no.	Description
75420233	Seal kit complete KRA 107 - 3
75420234	Seal kit complete KRA 107 - 4
75420243	Seal kit complete KRA 125 - 3
75420244	Seal kit complete KRA 125 - 4
75420253	Seal kit complete KRA 145 - 3
75420254	Seal kit complete KRA 145 - 4
75420255	Seal kit complete KRA 145 - 5
75420265	Seal kit complete KRA 167 - 5
75420266	Seal kit complete KRA 167 - 6
75420275	Seal kit complete KRA 193 - 5
75420277	Seal kit complete KRA 193 - 7

75420232	Seal kit complete KRA LONG 107 - 2
75420343	Seal kit complete KRA LONG 125 - 3
75420353	Seal kit complete KRA LONG 145 - 3
75420354	Seal kit complete KRA LONG 145 - 4
75420363	Seal kit complete KRA LONG 167 - 3
75420364	Seal kit complete KRA LONG 167 - 4
75420365	Seal kit complete KRA LONG 167 - 5
75420374	Seal kit complete KRA LONG 193 - 4
75420375	Seal kit complete KRA LONG 193 - 5
75420376	Seal kit complete KRA LONG 193 - 6

75420144	Seal kit complete KRM 125 - 4
75420145	Seal kit complete KRM 125 - 5
75420154	Seal kit complete KRM 145 - 4
75420155	Seal kit complete KRM 145 - 5
75420156	Seal kit complete KRM 145 - 6
75420157	Seal kit complete KRM 145 - 7
75420164	Seal kit complete KRM 167 - 4
75420165	Seal kit complete KRM 167 - 5
75420166	Seal kit complete KRM 167 - 6
75420167	Seal kit complete KRM 167 - 7
75420176	Seal kit complete KRM 193 - 6
75420177	Seal kit complete KRM 193 - 7
75420178	Seal kit complete KRM 193 - 8
75420186	Seal kit complete KRM 223 - 6
75420187	Seal kit complete KRM 223 - 7
75420188	Seal kit complete KRM 223 - 8
75420189	Seal kit complete KRM 223 - 9

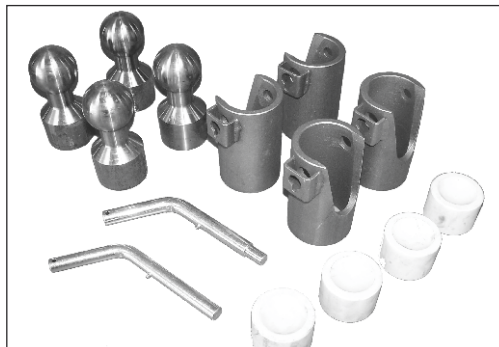
Adaptors for oil inlet KRA/KRM

Part no.	Description
75022102	Swivel adaptor 20mm
75022108	Swivel adaptor 25mm



Tipping hinges 3-way balls

Part no.	Description
17008030	3-way hinges horizontal ball 60S-12T
50308030	3-way hinges horizontal ball 80S-24T
50308029	3-way hinges horizontal ball 100S-36T



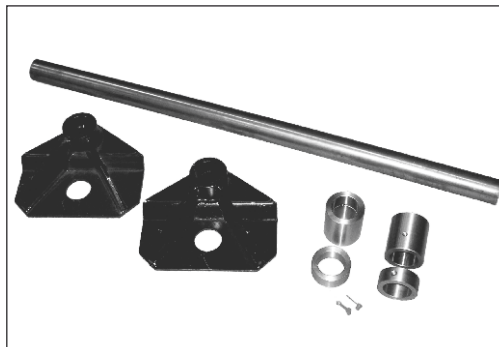
Tipping hinges 3-way balls/forks

Part no.	Description
17008036	3-way hinges horizontal ball / fork 24T
17008037	3-way hinges horizontal ball / fork 36T



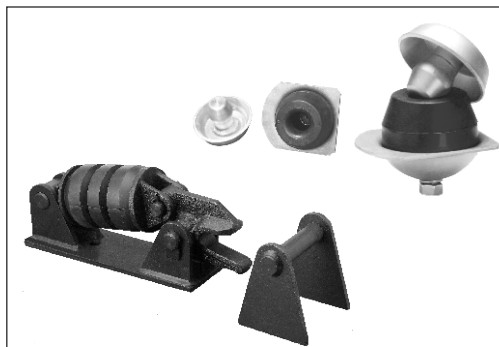
Tipping hinge for rear tipping

Part no.	Description
L107-02	Rear hinge 1 3/8", brackets and bushes
L098	Rear hinge 2 1/4", brackets and bushes



Body fixation

Part no.	Description
08101000	Polyp rubber set complete (steel)
08101010	Polyp rubber set complete (aluminium)
08102855	Hyfix set steel incl. bracket
08102867	Hyfix set aluminium incl. bracket



Safety cables

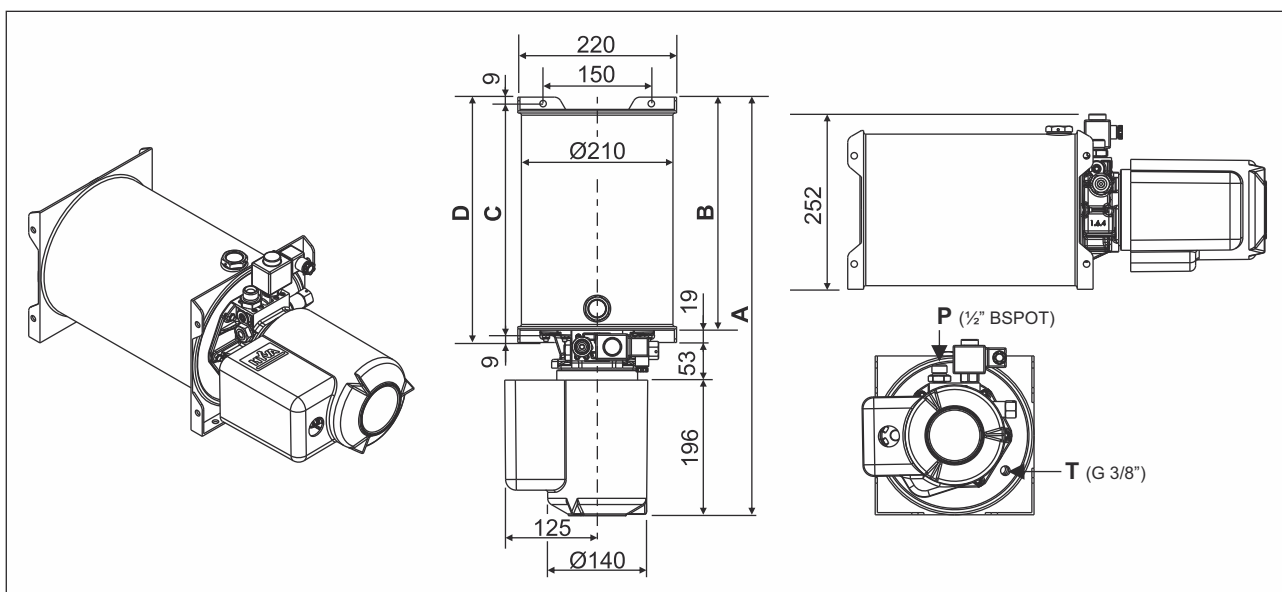
Part no.	Description
09209004	Safety cable 900 x 16 mm
09209005	Safety cable 950 x 16 mm
09209022	Safety cable 1000 x 16 mm
09209026	Safety cable 1200 x 16 mm



Power Packs 12V & 24V (Single Acting)

Part no.	Description	Voltage (V)	Nominal power (Watt)	Pump size (cc/rev.)	Tank steel volume (L)	Max pressure (Bar)	Current at max press. (Amps)	Flow at 100 bar (L/min.)
14553000	Power pack 2000W - 12V - 10L	12	2000	3.1	10	140	290	6.5
14553001	Power pack 2000W - 12V - 15L	12	2000	3.1	15	140	290	6.5
14553500	Power pack 3000W - 24V - 10L	24	3000	3.1	10	170	165	7.2
14553501	Power pack 3000W - 24V - 15L	24	3000	3.1	15	170	165	7.2
14553505	Power pack 3000W - 24V - 20L	24	3000	3.1	20	170	165	7.2

Remote control included



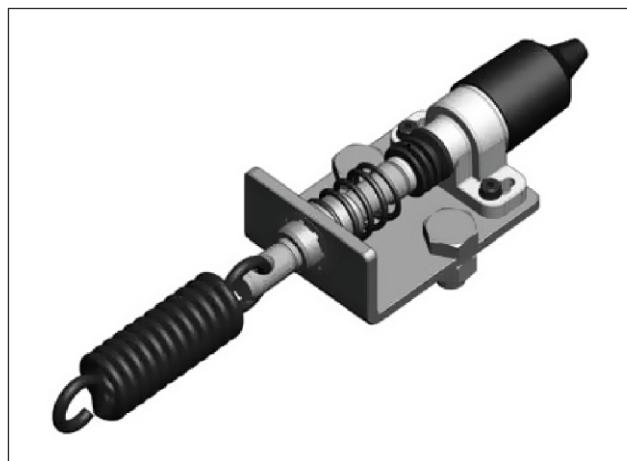
Part no.	Measurements			
	A (mm)	B (mm)	C (mm)	D (mm)
14553000	570	302	322	340
14553001	720	452	472	490
14553500	570	302	322	340
14553501	720	452	472	490
14553505	724	415	389	475

Special versions available on request.

- Different oil tank size;
- Double acting version;
- Multiple valves.

Electrical knock-off

Part no.	Description	Nominal voltage	Max. current	Enclosure	Working temperature
14886501	Knock-off electrical (re-inforced), normally closed	12V	25 A inductive	IP67	-20°C up to +40°C
		24V	15 A inductive		



Electrical limit switch

Part no.	Description
02070111	Electric pull-type limit switch, normally closed



Switch panel electric TIP/LOWER

Part no.	Description
02070121	Electric switch panel tip/lower



Remote control

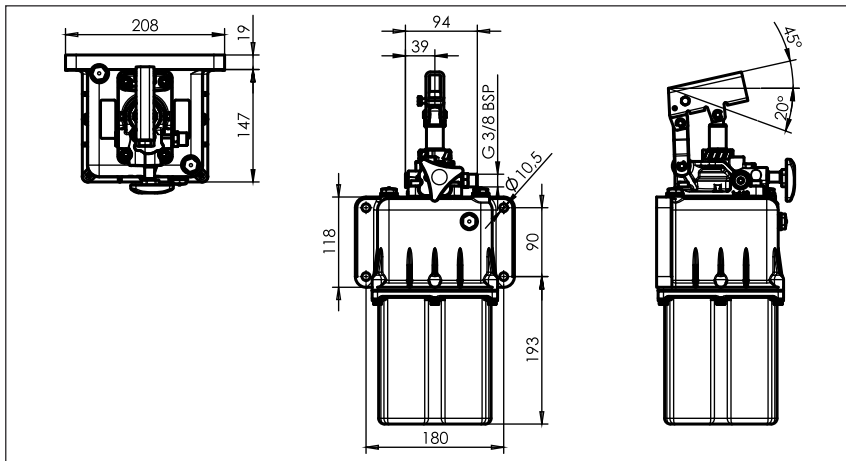
Part no.	Description
14552657	Remote control 2m. cable - 2 buttons
14552658	Power pack remote control holder



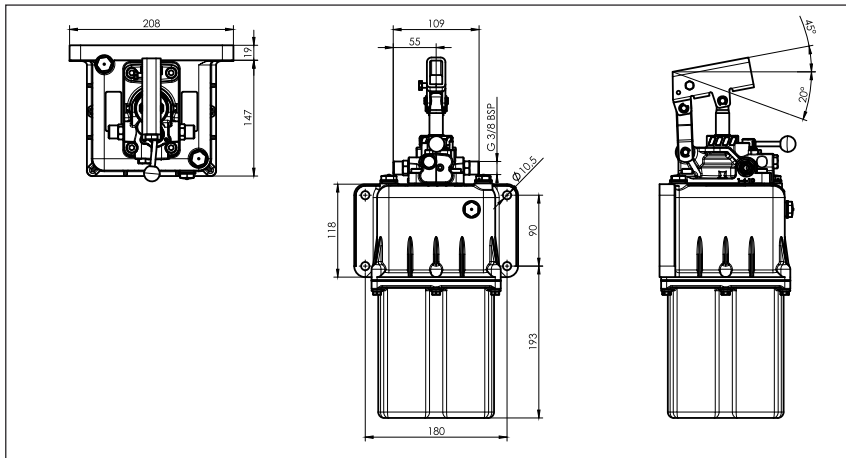
Hand pumps

Part no.	Description	Tank size (L)	SA/DA* application	Lowering valve	Relief setting (bar)	Max pressure (bar)	Inlet (")	Outlet (")	Lever type
14580202	Hand pump 45CC DA tank 5L 160bar	5	DA	Yes	160	270	-	3/8	A
14580301	Hand pump 25CC DA tank 5L 200bar	5	DA	No	200	300	-	3/8	A
14580302	Hand pump 25CC DA tank 10L excl. handle	10	DA	No	N/A	300	-	3/8	A
14580406	Hand pump 20CC DA-300bar	-	SA	No	N/A	300	1/2	3/8	B
14580203	Hand pump PM 50 with let-down valve	-	SA	Yes	N/A	250	1/2	1/2	A
14580211	Hand pump PM 50 without valve	-	SA	No	N/A	250	1/2	1/2	A

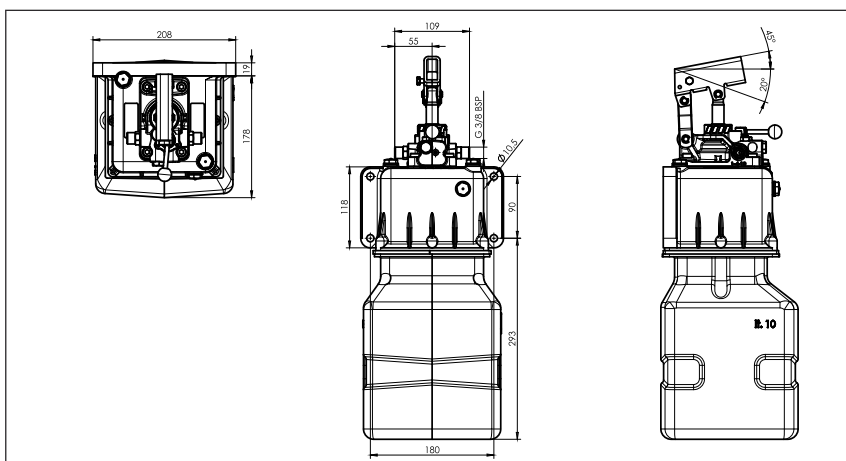
* SA = Single Acting, DA = Double Acting



14580202

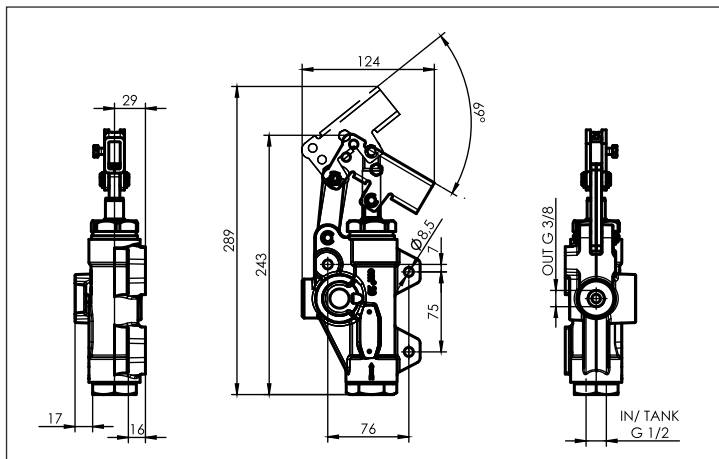


14580301

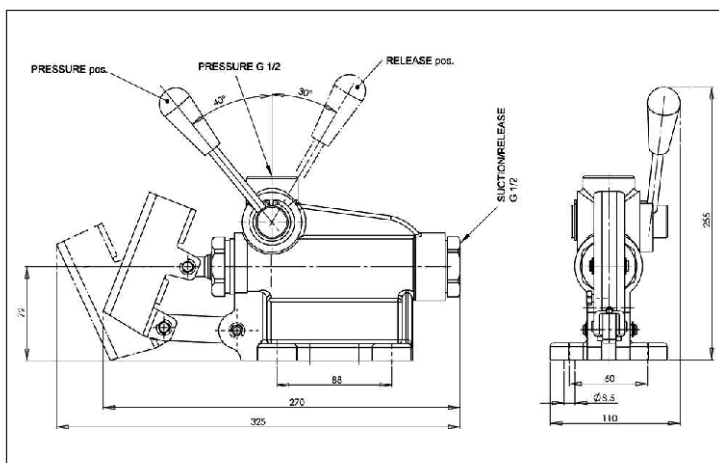


14580302

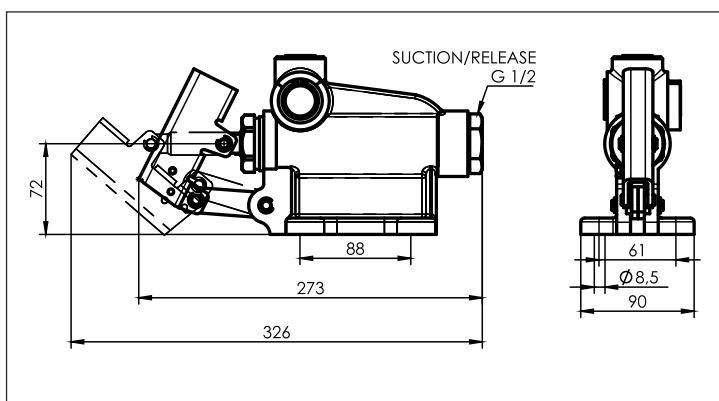




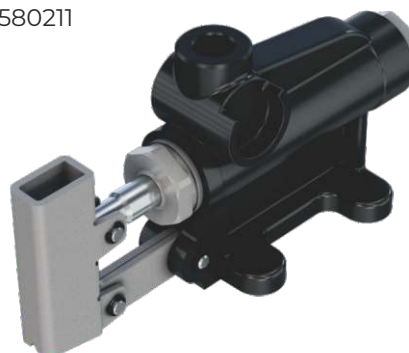
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14580203



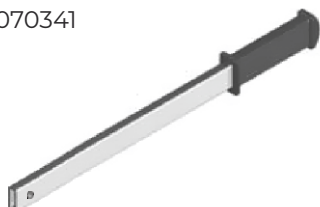
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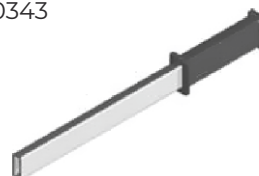
Levers for hand pumps

Type	Part no.	Description	Length (mm)
A	02070341	Lever for manual pump	600
B	02070343	Lever for 20CC DA hand pump	500

Type A: 02070341



Type B: 02070343



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