

CATALOGUE UNDER BODY CYLINDERS



HYVA[®] TIPPING
SOLUTIONS



WELCOME TO HYVA

Hyva Group is a leading global provider of innovative and highly efficient transport solutions for the commercial vehicle and environmental service industries.

The company is committed to the development, production, marketing and distribution of components used in hydraulic loading and unloading systems on trucks and trailers.

Our products are used worldwide across a range of sectors including transport, construction, mining, materials handling and environmental services providers. Hyva's portfolio comprises: Tipping Solutions (cylinders and tipping gear), Container Handling Systems (hookloaders and skiploaders), Waste Handling Systems (transfer stations, compactors and refuse collection bodies), Floors (horizontal unloading/loading floors) and Cranes (fixed and rolling).

Hyva: Your Trusted Partner.





OUR COMPANY

Founded in 1979 in The Netherlands, Hyva has significant manufacturing facilities in Brazil, China, Germany, India and Italy.

Operating in more than 130 countries the company has more than 2,000 employees around the world, encompassing 39 subsidiaries and 13 production facilities.

Hyva products are now recognised as clear leaders in their fields. Our development engineers combine a unique blend of experience and expertise. They know what works, and what will still be working in 10 years time. Hyva products are fully certified to quality standards ISO9001:2008 and ISO14001:2004.

A core part of Hyva's culture is to lead our industry by introducing new products with new ideas and new specifications. Working closely with over 25,000 customers in 130 countries offers us a huge source of knowledge and experience - and hence a unique opportunity to continuously improve the products we offer. Our local application engineers understand all the various market and legal requirements, and are therefore your key advisors for optimum product selection.

Yet Hyva is much more than its products alone. Customer care is also fundamental. As a result, our Hyva Care programme provides a comprehensive range of after-sales support services.

Hyva: The Complete Solution.

Table of content

Introduction	P01-6
Code system tipping cylinder	P01-7
ULB under body cylinders.....	P01-8
ULE under body cylinders.....	P01-9
UMB under body cylinders.....	P01-10
UME under body cylinders	P01-12
UL & UM seal kits	P01-14
Brackets UM - series.....	P01-15
Cradles UM - series.....	P01-16
KRA cylinders.....	P01-17
KRM cylinders & KR seal kits	P01-18

Introduction

Hyva's telescopic front end 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 underbody 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 produces a complete range of under body cylinders. The heavy duty series are offered up to diameter 223 mm with nine stages. The UMB-series starts at diameter 72 mm with two stages up to 191 mm with 8 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 1½ 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.

Code system tipping cylinders

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"
							XX	Other options

Cylinder type description

- ULB / ULE - under body cylinder for three way tipping
- UMB / UME - under body cylinder for three way tipping
- KRM / KRA - under body cylinder for three way tipping

Maximum working pressure

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

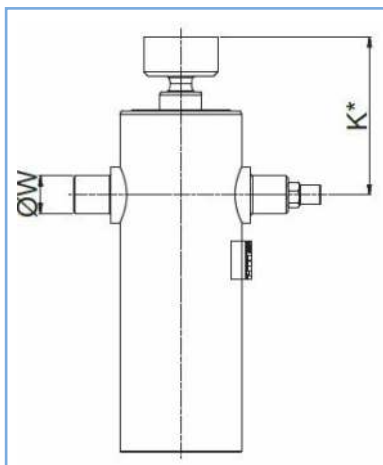
Other options

- HC Fully Hard Chromed
- 2HC First stage and piston Hard Chromed
- LT Low tap (trunnion at the bottom side)

ULB under body cylinders

Three-way under body tipping cylinder ULB/ULE

ULB/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.



- All cylinders Incl. 20 mm pull out with tolerances of -5/+20mm.

ULB 077

Part no.	Description	Tipping weight (tons)	Body length (mm)	Weight (kg.)	Oil inlet	ØW (mm)	K* (mm)
714 16 117	ULB 077-2-0410-K170-40-½"-HC	6-10	1400-2000	14	½"	40	170
714 16 175	ULB 077-2-0610-K170-40-½"-HC	6-9	1900-2600	17	½"	40	170
714 16 217	ULB 077-2-0770-K170-40-½"-HC	6-9	2200-3000	20	½"	40	170
714 16 209	ULB 077-3-0745-K162-40-½"-HC	4-9	2200-3000	18	½"	40	162
714 16 259	ULB 077-3-0925-K162-40-½"-HC	3-9	2500-3500	21	½"	40	162
714 16 299	ULB 077-3-1045-K162-40-½"-HC	3-9	2800-3800	23	½"	40	162

ULB 093

Part no.	Description	Tipping weight (tons)	Body length (mm)	Weight (kg.)	Oil inlet	ØW (mm)	K* (mm)
714 17 175	ULB 093-2-0610-K172-40-½"-HC	9-12	2000-2700	21	½"	40	172
714 17 221	ULB 093-2-0770-K172-40-½"-HC	9-12	2300-3200	24	½"	40	172
714 17 231	ULB 093-3-0805-K172-40-½"-HC	7-11	2400-3300	22	½"	40	172
714 17 265	ULB 093-3-0925-K172-40-½"-HC	7-11	2600-3600	24	½"	40	172
714 17 241	ULB 093-4-0840-K164-40-½"-HC	4-9	2400-3400	22	½"	40	164
714 17 309	ULB 093-4-1080-K164-40-½"-HC	4-9	3000-4100	25	½"	40	164
714 17 349	ULB 093-4-1240-K164-40-½"-HC	4-9	3300-4500	27	½"	40	164

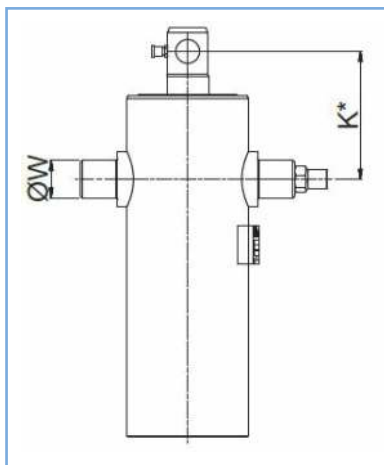
ULB 110

Part no.	Description	Tipping weight (tons)	Body length (mm)	Weight (kg.)	Oil inlet	ØW (mm)	K* (mm)
714 18 217	ULB 110-2-0755-K177-40-½"-HC	9-13	2400-3200	31	½"	40	177
714 18 261	ULB 110-3-0910-K177-40-½"-HC	9-13	2700-3700	30	½"	40	177
714 18 295	ULB 110-3-1030-K177-40-½"-HC	10-13	2900-4000	33	½"	40	177
714 18 237	ULB 110-4-0825-K177-40-½"-HC	7-13	2500-3400	26	½"	40	177
714 18 305	ULB 110-4-1065-K177-40-½"-HC	7-13	3000-4100	30	½"	40	177
714 18 351	ULB 110-4-1225-K177-40-½"-HC	7-12	3300-4600	33	½"	40	177
714 18 439	ULB 110-4-1545-K177-40-½"-HC	7-12	4000-5500	38	½"	40	177
714 18 297	ULB 110-5-1040-K169-40-½"-HC	4-9	3000-4100	28	½"	40	169
714 18 349	ULB 110-5-1240-K169-40-½"-HC	4-9	3400-4600	32	½"	40	169
714 18 441	ULB 110-5-1540-K169-40-½"-HC	4-9	4000-5500	36	½"	40	169
714 18 497	ULB 110-5-1740-K169-40-½"-HC	4-9	4400-6100	40	½"	40	169
714 18 555	ULB 110-5-1940-K169-40-½"-HC	4-9	4800-6600	43	½"	40	169

ULE under body cylinders

Three-way under body tipping cylinder ULB/ULE

ULB/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.



- All cylinders Incl. 20 mm pull out with tolerances of -5/+20mm.

ULE 077

Part no.	Description	Tipping weight (tons)	Body length (mm)	Weight (kg.)	Oil inlet	ØW (mm)	K* (mm)
71446117	ULE 077-2-0410-K135-40-½"-HC	6-10	1400-2000	13	½"	40	135
71446175	ULE 077-2-0610-K135-40-½"-HC	6-9	1900-2600	16	½"	40	135
71446221	ULE 077-2-0770-K135-40-½"-HC	6-9	2200-3000	18	½"	40	135
71446213	ULE 077-3-0745-K130-40-½"-HC	4-9	2200-3000	17	½"	40	130
71446265	ULE 077-3-0925-K130-40-½"-HC	3-9	2500-3500	20	½"	40	130
71446299	ULE 077-3-1045-K130-40-½"-HC	3-9	2800-3800	22	½"	40	130

ULE 093

Part no.	Description	Tipping weight (tons)	Body length (mm)	Weight (kg.)	Oil inlet	ØW (mm)	K* (mm)
71447175	ULE 093-2-0610-K147-40-½"-HC	9-12	2000-2700	21	½"	40	147
71447221	ULE 093-2-0770-K147-40-½"-HC	9-12	2300-3200	24	½"	40	147
71447231	ULE 093-3-0805-K137-40-½"-HC	7-11	2400-3300	21	½"	40	137
71447265	ULE 093-3-0925-K137-40-½"-HC	7-11	2600-3600	22	½"	40	137
71447241	ULE 093-4-0840-K132-40-½"-HC	4-9	2400-3400	20	½"	40	132
71447309	ULE 093-4-1080-K132-40-½"-HC	4-9	3000-4100	24	½"	40	132
71447355	ULE 093-4-1240-K132-40-½"-HC	4-9	3300-4500	26	½"	40	152

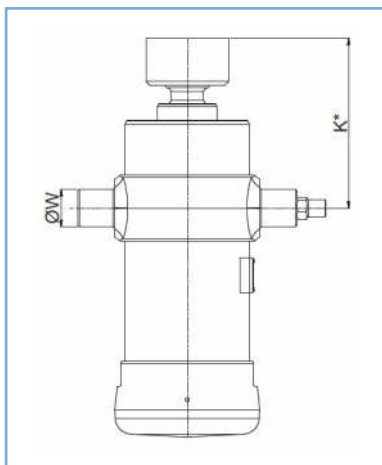
ULE 110

Part no.	Description	Tipping weight (tons)	Body length (mm)	Weight (kg.)	Oil inlet	ØW (mm)	K* (mm)
71448217	ULE 110-2-0755-K152-40-½"-HC	9-13	2400-3200	31	½"	40	152
71448258	ULE 110-3-0910-K152-40-½"-HC	9-13	2700-3700	29	½"	40	152
71448295	ULE 110-3-1030-K152-40-½"-HC	10-13	2900-4000	32	½"	40	142
71448237	ULE 110-4-0825-K142-40-½"-HC	7-13	2500-3400	25	½"	40	142
71448305	ULE 110-4-1065-K142-40-½"-HC	7-13	3000-4100	29	½"	40	142
71448347	ULE 110-4-1225-K142-40-½"-HC	7-12	3300-4600	31	½"	40	142
71448441	ULE 110-4-1545-K142-40-½"-HC	7-12	4000-5500	37	½"	40	137
71448297	ULE 110-5-1040-K137-40-½"-HC	4-9	3000-4100	27	½"	40	137
71448355	ULE 110-5-1240-K137-40-½"-HC	4-9	3400-4600	31	½"	40	137
714 48 431	ULE 110-5-1540-K137-40-½"-HC	4-9	4000-5500	35	½"	40	137
714 48 497	ULE 110-5-1740-K137-40-½"-HC	4-9	4400-6100	38	½"	40	137
714 48 555	ULE 110-5-1940-K137-40-½"-HC	4-9	4800-6700	42	½"	40	137

UMB under body cylinders

Three-way under body tipping cylinder UMB/UME

ULB/ULE 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.



- All cylinders Incl. 20 mm pull out with tolerances of -5/+20mm.

UMB 129

Part no.	Description	Tipping weight (tons)	Body length (mm)	Weight (kg.)	Oil inlet	ØW (mm)	K* (mm)
714 04 203	UMB 129-3-0700-K318-45-½"-HC	15 - 21	2400-3100	46	½"	45	318
714 04 287	UMB 129-3-1000-K212-45-½"-HC	15 - 20	3000-4000	42	½"	45	212
714 04 389	UMB 129-3-1360-K212-45-½"-HC	15 - 20	3700-5100	64	½"	45	212
714 04 291	UMB 129-4-1020-K205-45-½"-HC	12 - 20	3100-4000	49	½"	45	205
714 04 429	UMB 129-4-1500-K205-45-½"-HC	11 - 20	4100-5400	60	½"	45	205
714 04 337	UMB 129-4-1180-K205-45-½"-HC	11 - 20	3300-4600	52	½"	45	205
714 04 385	UMB 129-4-1340-K205-45-½"-HC	11 - 20	3700-5000	56	½"	45	205
714 04 521	UMB 129-4-1820-K205-45-½"-HC	11 - 20	4700-6400	68	½"	45	205
714 04 421	UMB 129-5-1480-K192-45-½"-HC	6 - 17	4100-5400	59	½"	45	192
714 04 537	UMB 129-5-1880-K192-45-½"-HC	6 - 17	4900-6500	67	½"	45	192
714 04 281	UMB 129-5-0980-K192-45-½"-HC	7 - 17	2900-9000	46	½"	45	192
714 04 365	UMB 129-5-1280-K192-45-½"-HC	6 - 17	3600-4900	53	½"	45	192
714 04 567	UMB 129-5-1980-K192-45-½"-HC	15 - 21	5000-6900	45	½"	45	192
714 04 659	UMB 129-5-2280-K192-45-½"-HC	7 - 18	5200-7000	76	½"	45	192
714 04 709	UMB 129-5-2480-K192-45-½"-HC	7 - 18	5600-7500	81	½"	45	192

UMB 149

Part no.	Description	Tipping weight (tons)	Body length (mm)	Weight (kg.)	Oil inlet	ØW (mm)	K* (mm)
714 05 389	UMB 149-3-1360-K265-50-¾"-HC	22 - 29	3900-5300	79	¾"	50	265
714 05 467	UMB 149-3-1630-K265-50-¾"-HC	22 - 28	4500-6100	88	¾"	50	265
714 05 637	UMB 149-3-2230-K265-50-¾"-HC	25 - 31	5200-7100	107	¾"	50	265
714 05 210	UMB 149-4-0700-K265-50-¾"-HC	21 - 30	2500-3400	56	¾"	50	265
714 05 223	UMB 149-4-0780-K265-50-¾"-HC	21 - 29	2700-3600	56	¾"	50	265
714 05 291	UMB 149-4-1020-K265-50-¾"-HC	19 - 29	3200-4300	62	¾"	50	265
714 05 429	UMB 149-4-1500-K265-50-¾"-HC	18 - 28	4300-5600	76	¾"	50	265
714 05 521	UMB 149-4-1820-K265-50-¾"-HC	17 - 28	4900-6500	86	¾"	50	265
714 05 623	UMB 149-4-2180-K265-50-¾"-HC	20 - 32	5200-6900	96	¾"	50	265
714 05 725	UMB 149-4-2540-K265-50-¾"-HC	19 - 31	5800-7900	106	¾"	50	265
714 05 851	UMB 149-4-2980-K265-50-¾"-HC	19 - 31	6700-9000	118	¾"	50	265
714 05 281	UMB 149-5-0980-K258-50-¾"-HC	13 - 23	3100-4200	57	¾"	50	265
714 05 365	UMB 149-5-1280-K258-50-¾"-HC	12 - 23	3800-5000	64	¾"	50	258
714 05 421	UMB 149-5-1480-K258-50-¾"-HC	12 - 23	4200-5600	69	¾"	50	258
714 05 537	UMB 149-5-1880-K258-50-¾"-HC	11 - 23	5100-6700	79	¾"	50	258
714 05 709	UMB 149-5-2480-K258-50-¾"-HC	13 - 25	5700-7700	95	¾"	50	258
714 05 439	UMB 149-6-1540-K245-50-¾"-HC	6 - 17	4300-6000	68	¾"	50	245
714 05 509	UMB 149-6-1780-K245-50-¾"-HC	6 - 17	4900-6400	75	¾"	50	245
714 05 681	UMB 149-6-2380-K245-50-¾"-HC	7 - 19	5500-7400	89	¾"	50	245

UMB 169

Part no.	Description	Tipping weight (tons)	Body length (mm)	Weight (kg.)	Oil inlet	ØW (mm)	K* (mm)
714 06 291	UMB 169-4-1020-K265-50-¾"-HC	21 - 29	3400-4600	74	¾"	50	265
714 06 521	UMB 169-4-1820-K265-50-¾"-HC	22 - 28	5000-6900	102	¾"	50	265
714 06 557	UMB 169-4-1980-K265-50-¾"-HC	22 - 28	5400-7300	107	¾"	50	265
714 06 623	UMB 169-4-2180-K265-50-¾"-HC	25 - 32	5300-7100	114	¾"	50	265
714 06 727	UMB 169-4-2540-K265-50-¾"-HC	25 - 32	6000-8100	126	¾"	50	265
714 06 851	UMB 169-4-2980-K265-50-¾"-HC	25 - 31	6900-9200	140	¾"	50	265
714 06 367	UMB 169-5-1280-K265-50-¾"-HC	20 - 29	3900-5300	78	¾"	50	265
714 06 421	UMB 169-5-1480-K265-50-¾"-HC	19 - 29	4400-5800	84	¾"	50	265
714 06 537	UMB 169-5-1880-K265-50-¾"-HC	18 - 28	5300-7000	96	¾"	50	265
714 06 567	UMB 169-5-1980-K265-50-¾"-HC	18 - 28	5400-7300	100	¾"	50	265
714 06 659	UMB 169-5-2280-K265-50-¾"-HC	21 - 32	5500-7400	109	¾"	50	265
714 06 707	UMB 169-5-2480-K265-50-¾"-HC	21 - 32	5900-7900	115	¾"	50	265
714 06 781	UMB 169-5-2730-K265-50-¾"-HC	20 - 31	6400-8600	122	¾"	50	265
714 06 439	UMB 169-6-1540-K258-50-¾"-HC	12 - 23	4500-6100	79	¾"	50	265
714 06 509	UMB 169-6-1780-K258-50-¾"-HC	12 - 23	5000-6700	86	¾"	50	258
714 06 578	UMB 169-6-2020-K258-50-¾"-HC	14 - 26	5000-6700	92	¾"	50	258
714 06 647	UMB 169-6-2260-K258-50-¾"-HC	13 - 25	5600-7300	99	¾"	50	258
714 06 681	UMB 169-6-2380-K258-50-¾"-HC	13 - 25	5700-7600	104	¾"	50	258
714 06 783	UMB 169-6-2740-K258-50-¾"-HC	13 - 25	6400-8600	113	¾"	50	258
714 06 852	UMB 169-6-2980-K258-50-¾"-HC	13 - 25	6900-9200	119	¾"	50	258
714 06 937	UMB 169-6-3280-K258-50-¾"-HC	13 - 25	7400-10000	127	¾"	50	258
714 06 951	UMB 169-6-3820-K258-50-¾"-HC	12-25	8500-11400	141	¾"	50	258
714 06 517	UMB 169-7-1800-K245-50-¾"-HC	7 - 17	5100-6700	85	¾"	50	245
714 06 595	UMB 169-7-2080-K245-50-¾"-HC	8 - 19	5100-6900	90	¾"	50	245
714 06 675	UMB 169-7-2360-K245-50-¾"-HC	7 - 19	5700-7500	99	¾"	50	245
714 06 795	UMB 169-7-2780-K245-50-¾"-HC	7 - 19	6500-8700	110	¾"	50	245

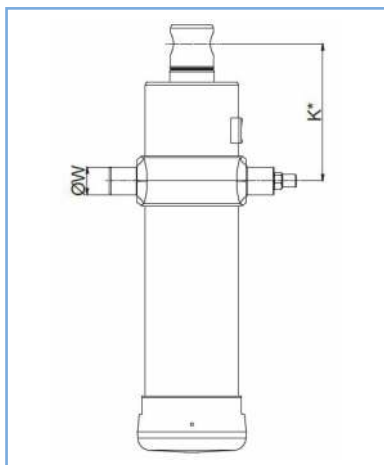
UMB 191

Part no.	Description	Tipping weight (tons)	Body length (mm)	Weight (kg.)	Oil inlet	ØW (mm)	K* (mm)
71407291	UMB 191-4-1020-K270-60-¾"-HC	27 - 37	3400-4600	91	¾"	60	270
71407337	UMB 191-5-1180-K270-60-¾"-HC	27 - 37	3700-5000	92	¾"	60	270
71407652	UMB 191-5-2280-K270-60-¾"-HC	31 - 41	5500-7400	133	¾"	60	270
71407709	UMB 191-5-2480-K270-60-¾"-HC	30 - 40	5900-7900	140	¾"	60	270
71407781	UMB 191-5-2730-K270-60-¾"-HC	30 - 40	6400-8600	149	¾"	60	270
71407909	UMB 191-5-3180-K270-60-¾"-HC	29 - 40	7200-9700	165	¾"	60	270
714 07 511	UMB 191-6-1780-K270-60-¾"-HC	19 - 34	5000 -6700	107	¾"	60	270
714 07 647	UMB 191-6-2260-K270-60-¾"-HC	22 - 38	5500-7300	122	¾"	60	270
714 07 691	UMB 191-6-2380-K270-60-¾"-HC	21 - 38	5700-7600	129	¾"	60	270
714 07 783	UMB 191-6-2740-K270-60-¾"-HC	21 - 38	6400-8600	140	¾"	60	270
714 07 853	UMB 191-6-2980-K270-60-¾"-HC	20 - 38	6900-9200	148	¾"	60	270
714 07 475	UMB 191-7-1660-K263-60-¾"-HC	12 - 23	4700-6400	97	¾"	60	263
714 07 519	UMB 191-7-1800-K278-60-¾"-HC	12 - 28	5100-6800	108	¾"	60	278
714 07 595	UMB 191-7-2080-K278-60-¾"-HC	14 - 25	5100-6900	109	¾"	60	278
714 07 675	UMB 191-7-2360-K278-60-¾"-HC	14 - 25	5700-7600	117	¾"	60	278
714 07 589	UMB 191-8-2060-K278-60-¾"-HC	8 - 24	5100-6800	107	¾"	60	278
714 07 681	UMB 191-8-2380-K278-60-¾"-HC	7 - 22	5800-7600	116	¾"	60	278
714 07 989	UMB 191-8-3980-K250-60-¾"-HC	7 - 19	8800-11800	149	¾"	60	250

UME under body cylinders

Three-way under body tipping cylinder UMB/UME

ULB/ULE 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.



- All cylinders Incl. 20 mm pull out with tolerances of -5/+20mm.

UME 129

Part no.	Description	Tipping weight (tons)	Body length (mm)	Weight (kg.)	Oil inlet	ØW (mm)	K* (mm)
714 34 201	UME 129-3-0700-K282-45-½"-H45 HC	15 - 21	2300-3200	43	½"	45	282
714 34 287	UME 129-3-1000-K168-45-½"-HC	15 - 20	3000-4000	51	½"	45	168
714 34 389	UME 129-3-1360-K221-45-½"-HC	15 - 20	3700-5100	62	½"	45	221
714 34 205	UME 129-4-0700-K242-45-½"-HC	13 - 21	2300-3200	41	½"	45	242
714 34 295	UME 129-4-1020-K168-45-½"-HC	12 - 20	3000-4100	47	½"	45	168
714 34 337	UME 129-4-1180-K168-45-½"-HC	11 - 20	3300-4600	50	½"	45	168
714 34 383	UME 129-4-1340-K168-45-½"-HC	11 - 20	3700-5000	54	½"	45	168
714 34 429	UME 129-4-1500-K168-45-½"-HC	11 - 20	4000-5500	58	½"	45	168
714 34 521	UME 129-4-1820-K221-45-½"-HC	11 - 20	4700-6400	66	½"	45	221
714 34 281	UME 129-5-0980-K158-45-½"-HC	7 - 15	2900-4000	45	½"	45	158
714 34 367	UME 129-5-1280-K158-45-½"-HC	6 - 15	3600-4900	51	½"	45	158
714 34 423	UME 129-5-1480-K158-45-½"-HC	6 - 15	4000-5400	56	½"	45	158
714 34 537	UME 129-5-1880-K158-45-½"-HC	6 - 15	4800-6600	64	½"	45	158
714 34 567	UME 129-5-1980-K158-45-½"-HC	6 - 15	5000-6900	68	½"	45	158
714 34 651	UME 129-5-2280-K158-45-½"-HC	7 - 16	5200-7000	75	½"	45	158
714 34 709	UME 129-5-2480-K158-45-½"-HC	7 - 16	5600-7500	79	½"	45	158

UME 149

Part no.	Description	Tipping weight (tons)	Body length (mm)	Weight (kg.)	Oil inlet	ØW (mm)	K* (mm)
714 35 389	UME 149-3-1360-K221-50-¾"-HC	22 - 29	3900-5300	79	¾"	50	221
714 35 467	UME 149-3-1630-K231-50-¾"-HC	22 - 28	4500-6100	87	¾"	50	231
714 35 637	UME 149-3-2230-K231-50-¾"-HC	25 - 31	5200-7100	106	¾"	50	231
714 35 223	UME 149-4-0780-K221-50-¾"-HC	21 - 29	2700-3600	53	¾"	50	221
714 35 291	UME 149-4-1020-K221-50-¾"-HC	19 - 29	3200-4300	60	¾"	50	221
714 35 429	UME 149-4-1500-K221-50-¾"-HC	18 - 28	4200-5700	73	¾"	50	221
714 35 521	UME 149-4-1820-K221-50-¾"-HC	17 - 28	4900-6600	84	¾"	50	221
714 35 623	UME 149-4-2180-K221-50-¾"-HC	20 - 32	5200-6900	93	¾"	50	221
714 35 727	UME 149-4-2540-K221-50-¾"-HC	19 - 31	5800-7900	103	¾"	50	221
714 35 851	UME 149-4-2980-K221-50-¾"-HC	19 - 31	6700-9000	116	¾"	50	221
714 35 281	UME 149-5-0980-K221-50-¾"-HC	13 - 27	3100-4200	26	¾"	50	221
714 35 367	UME 149-5-1280-K221-50-¾"-HC	12 - 26	3700-5100	62	¾"	50	221
714 35 423	UME 149-5-1480-K221-50-¾"-HC	12 - 26	4200-5700	67	¾"	50	221
714 35 537	UME 149-5-1880-K221-50-¾"-HC	11 - 26	5000-6800	76	¾"	50	221
714 35 709	UME 149-5-2480-K221-50-¾"-HC	13 - 29	5700-7700	93	¾"	50	221
714 35 441	UME 149-6-1540-K211-50-¾"-HC	6 - 15	4300-5800	66	¾"	50	211
714 35 509	UME 149-6-1780-K211-50-¾"-HC	6 - 15	4800-6500	72	¾"	50	211
714 35 681	UME 149-6-2380-K211-50-¾"-HC	7 - 16	5500-7400	88	¾"	50	211

UME 169

Part no.	Description	Tipping weight (tons)	Body length (mm)	Weight (kg.)	Oil inlet	ØW (mm)	K* (mm)
714 36 291	UME 169-4-1020-K231-50-¾"-HC	21 - 29	3400-4600	73	¾"	50	231
714 36 521	UME 169-4-1820-K231-50-¾"-HC	22 - 28	5000-6900	102	¾"	50	231
714 36 557	UME 169-4-1980-K231-50-¾"-HC	22 - 28	5900-7300	107	¾"	50	231
714 36 623	UME 169-4-2180-K231-50-¾"-HC	25 - 32	5300-7100	114	¾"	50	231
714 36 727	UME 169-4-2540-K231-50-¾"-HC	25 - 32	6000-8100	125	¾"	50	231
714 36 865	UME 169-4-2980-K231-50-¾"-HC	25 - 31	6900-9200	140	¾"	50	231
714 36 367	UME 169-5-1280-K221-50-¾"-HC	20 - 29	3900-5300	75	¾"	50	221
714 36 423	UME 169-5-1480-K221-50-¾"-HC	19 - 29	4300-5900	81	¾"	50	221
714 36 537	UME 169-5-1880-K221-50-¾"-HC	18 - 28	5200-7000	93	¾"	50	221
714 36 567	UME 169-5-1980-K221-50-¾"-HC	18 - 28	5400-7300	98	¾"	50	221
714 36 651	UME 169-5-2280-K221-50-¾"-HC	21 - 32	5500-7400	107	¾"	50	221
714 36 709	UME 169-5-2480-K221-50-¾"-HC	21 - 32	5900-7900	113	¾"	50	221
714 36 781	UME 169-5-2730-K221-50-¾"-HC	20 - 31	6400-8600	120	¾"	50	221
714 36 441	UME 169-6-1540-K221-50-¾"-HC	12 - 26	4500-6100	77	¾"	50	221
714 36 509	UME 169-6-1780-K221-50-¾"-HC	12 - 26	5000-6800	84	¾"	50	221
714 36 577	UME 169-6-2020-K221-50-¾"-HC	14 - 29	5000-6700	90	¾"	50	221
714 36 647	UME 169-6-2260-K221-50-¾"-HC	13 - 29	5500-7300	96	¾"	50	221
714 36 681	UME 169-6-2380-K221-50-¾"-HC	13 - 29	5700-7600	102	¾"	50	221
714 36 823	UME 169-6-2740-K221-50-¾"-HC	13 - 29	6400-8600	111	¾"	50	221
714 36 851	UME 169-6-2980-K221-50-¾"-HC	13 - 29	6900-9200	117	¾"	50	221
714 36 937	UME 169-6-3280-K221-50-¾"-HC	13 - 29	7400-10000	125	¾"	50	221
714 36 991	UME 169-6-3820-K221-50-¾"-HC	12 - 29	8500-11400	139	¾"	50	221
714 36 515	UME 169-7-1800-K211-50-¾"-HC	7 - 15	5000-6800	82	¾"	50	211
714 36 595	UME 169-7-2080-K211-50-¾"-HC	8 - 17	5100-6900	89	¾"	50	221
714 36 673	UME 169-7-2360-K211-50-¾"-HC	7 - 16	5700-7600	96	¾"	50	211
714 36 795	UME 169-7-2780-K211-50-¾"-HC	7 - 16	6500-8700	109	¾"	50	211

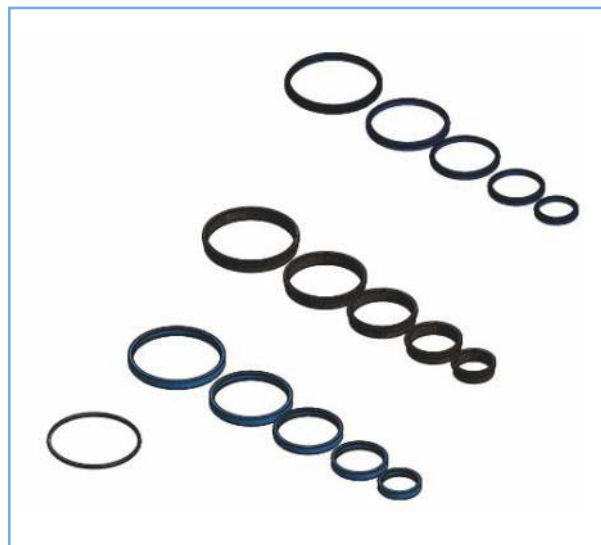
UME 191

Part no.	Description	Tipping weight (tons)	Body length (mm)	Weight (kg.)	Oil inlet	ØW (mm)	K* (mm)
714 37 337	UME 191-5-1180-K236-60-¾"-HC	27 - 37	3700-5000	92	¾"	60	236
714 37 651	UME 191-5-2280-K236-60-¾"-HC	31 - 40	5500-7400	133	¾"	60	236
714 37 709	UME 191-5-2480-K236-60-¾"-HC	30 - 40	5900-7900	140	¾"	60	236
714 37 781	UME 191-5-2730-K345-60-¾"-HC	30 - 40	6400-8600	149	¾"	60	345
714 37 909	UME 191-5-3180-K345-60-¾"-HC	29 - 40	7200-9700	164	¾"	60	345
714 37 509	UME 191-6-1780-K226-60-¾"-HC	19 - 34	5000-6800	105	¾"	60	226
714 37 647	UME 191-6-2260-K226-60-¾"-HC	22 - 38	5500-7300	120	¾"	60	226
714 37 683	UME 191-6-2380-K226-60-¾"-HC	21 - 38	5700-7600	126	¾"	60	226
714 37 783	UME 191-6-2740-K330-60-¾"-HC	21 - 38	6400-8600	138	¾"	60	330
714 37 851	UME 191-6-2980-K226-60-¾"-HC	20 - 38	6900-9200	145	¾"	60	226
714 37 475	UME 191-7-1660-K226-60-¾"-HC	12 - 23	4700-6400	95	¾"	60	226
714 37 515	UME 191-7-1800-K226-60-¾"-HC	12 - 23	5000-6800	99	¾"	60	226
714 37 595	UME 191-7-2080-K226-60-¾"-HC	14 - 25	5100-6900	107	¾"	60	226
714 37 675	UME 191-7-2360-K330-60-¾"-HC	14 - 25	5700-7600	115	¾"	60	330
714 37 589	UME 191-8-2060-K330-60-¾"-HC	8 - 17	5100-6800	104	¾"	60	330
714 37 691	UME 191-8-2380-K216-60-¾"-HC	7 - 16	5700-7600	112	¾"	60	216
714 37 989	UME 191-8-3980-K216-60-¾"-HC	7 - 16	8800-11800	159	¾"	60	216

UL & UM seal kits & nipples

Seal kits for ULB/ULE cylinders

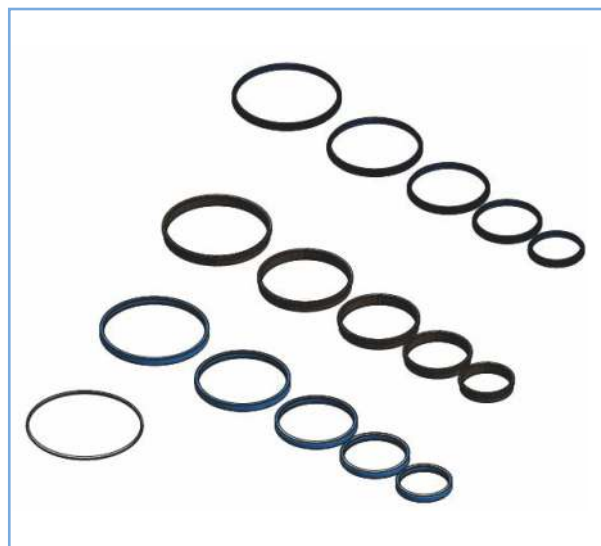
Part no.	Description
71906620K	Seal kit complete UL 77 - 2
71906630K	Seal kit complete UL 77 - 3
71906720K	Seal kit complete UL 93 - 2
71906730K	Seal kit complete UL 93 - 3
71906740K	Seal kit complete UL 93 - 4
71906820K	Seal kit complete UL 110 - 2
71906821K	Seal kit complete UL 110 - 2 (>500)
71906830K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



Seal kits for UMB/UME cylinders

Part no.	Description
719 04 430K	Seal kit complete UM 129 - 3
719 04 440K	Seal kit complete UM 129 - 4
719 04 450K	Seal kit complete UM 129 - 5
719 04 451K	Seal kit complete UM 129 - 5 (>500)*
719 04 540K	Seal kit complete UM 149 - 4
719 04 550K	Seal kit complete UM 149 - 5
719 04 560K	Seal kit complete UM 149 - 6
719 04 650K	Seal kit complete UM 169 - 5
719 04 660K	Seal kit complete UM 169 - 6
719 04 670K	Seal kit complete UM 169 - 7
719 04 760K	Seal kit complete UM 191 - 6
719 04 770K	Seal kit complete UM 191 - 7
719 04 780K	Seal kit complete UM 191 - 8

* Kits marked with (>L) to be used for cylinders with the tube lengths exceeding the listed length.



Nipple for oil inlet UMB/UME

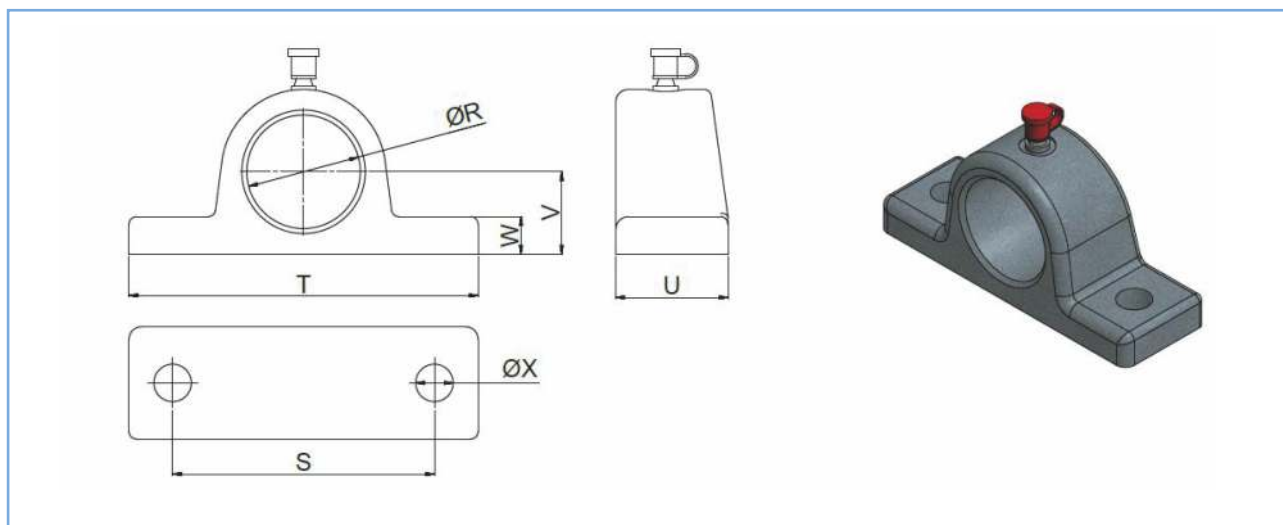
Part no.	Description
731 03 000	Oil inlet nipple UM 1/2" - M18 x 1,5
731 03 002	Oil inlet nipple UM 3/4" - M22 x 1,5



Brackets UM - series

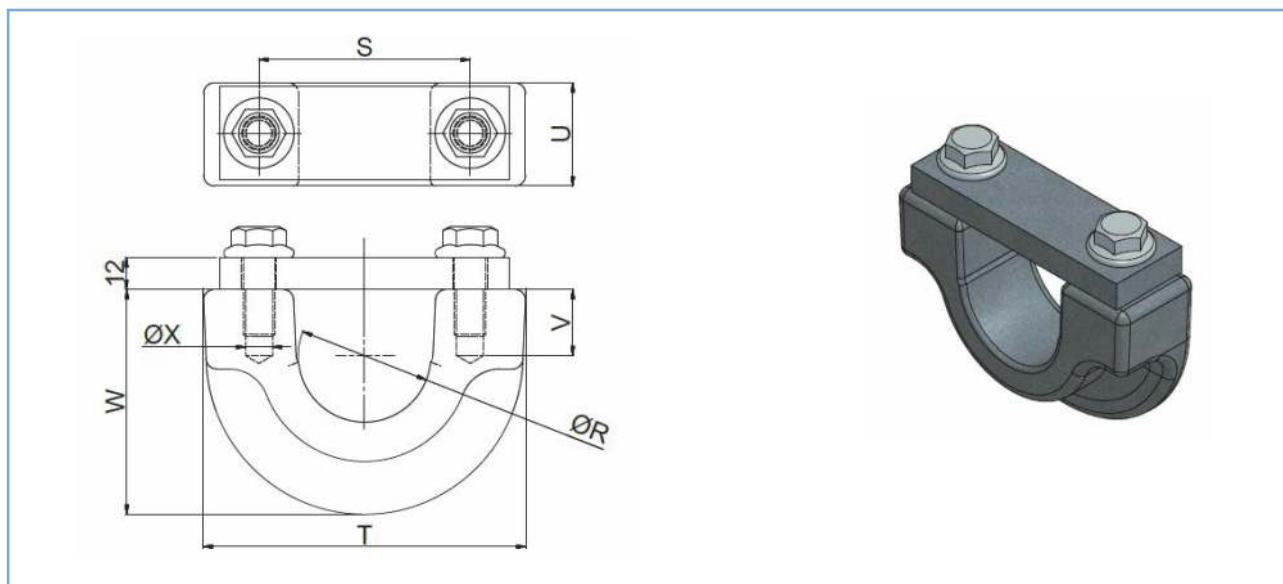
Brackets for UMB/UME cylinders (2 required)

Part no.	Description	ØR (mm)	S (mm)	T (mm)	U (mm)	V (mm)	W (mm)	ØX (mm)	Weight (kg)
731 05 073	Bracket UM 129 to bolt D45	45,5	105	140	45	33	15	15	1,0
731 05 076	Bracket UM 149-169 to bolt D50	50,5	120	155	50	37	17	15	1,4
731 05 079	Bracket UM 191 to bolt D60	60,5	130	165	50	42	17	15	1,6



Weldable brackets for cradles (2 required)

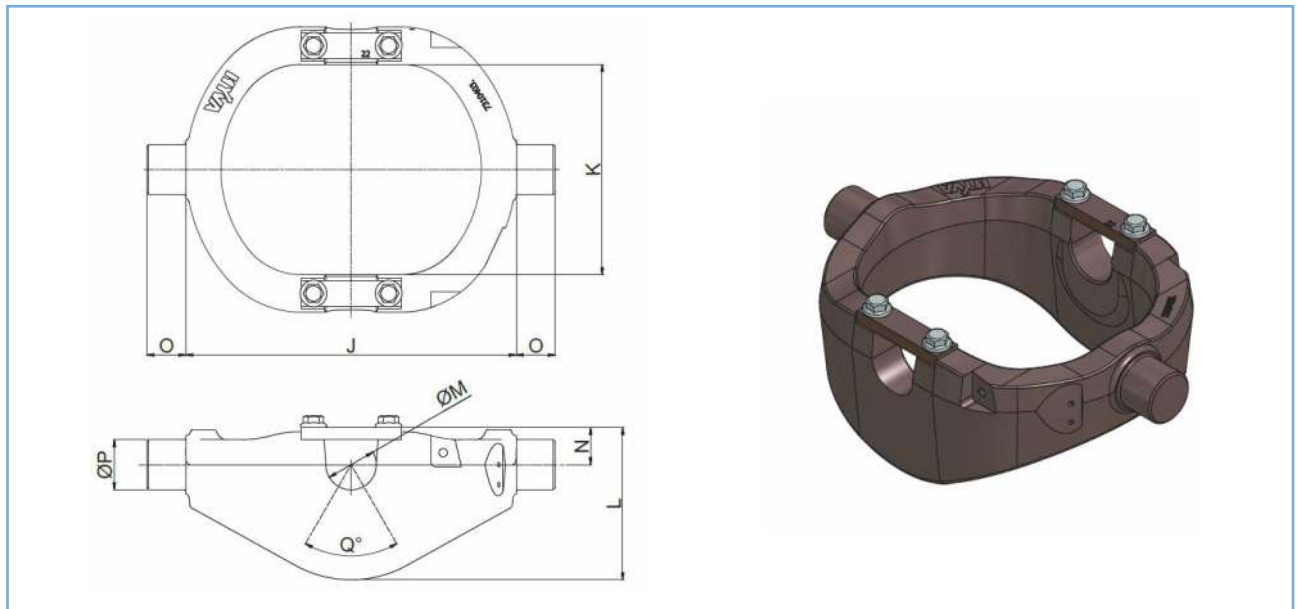
Part no.	Description	For Cradle	ØR (mm)	S (mm)	T (mm)	U (mm)	V (mm)	W (mm)	ØX	Weight (kg)
731 05 035	Welding bracket UM D50	129-169	50	80	122	39	20	85	M12	1,5
731 05 036	Welding bracket UM D60	191	60	90	122	39	25	90	M12	2,1



Cradles UM - series

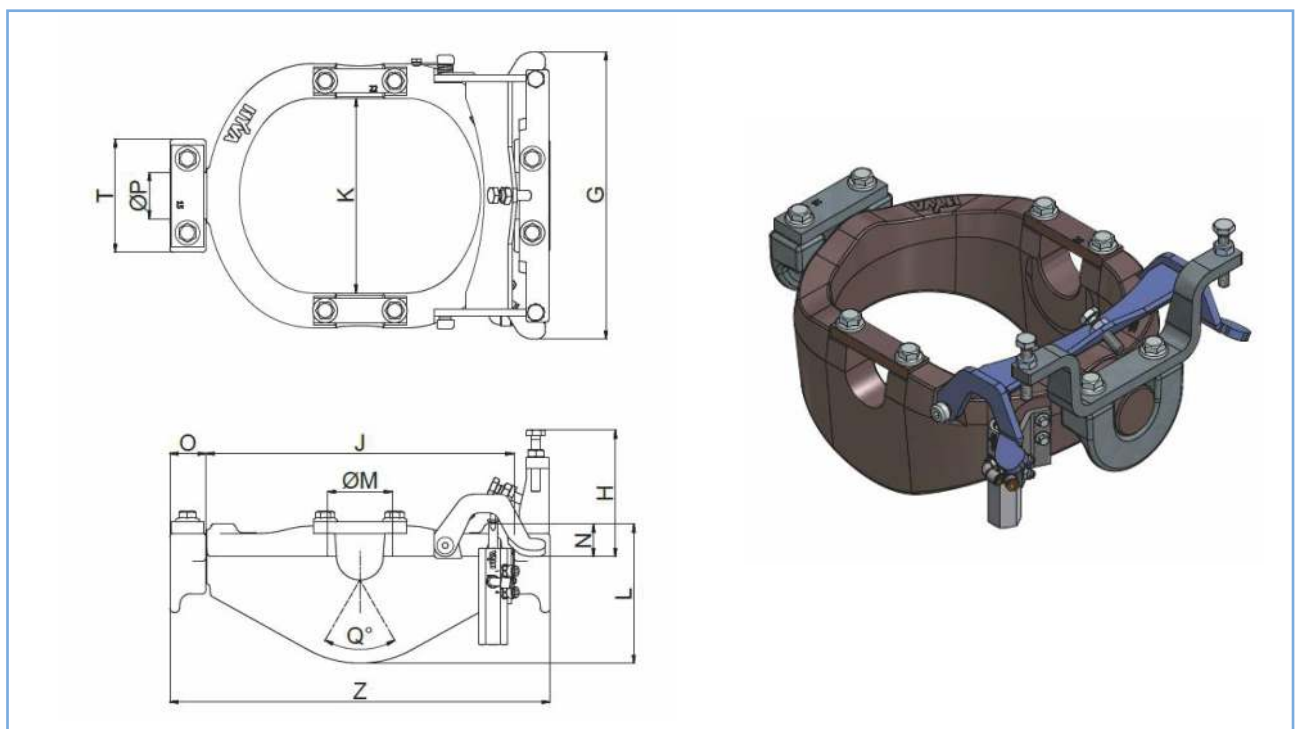
Cradles for UMB/UME cylinders

Part no.	Description	J (mm)	K (mm)	L (mm)	ØM (mm)	N (mm)	O (mm)	ØP (mm)	Q (°)	Weight (kg)
731 04 021	Cradle UM 129 - PIN50-D45	280	180	135	45	35	39	50	60	13,8
731 04 031	Cradle UM 149 - PIN50-D50	330	210	152	50	37	39	50	60	20,4
731 04 041	Cradle UM 169 - PIN50-D50	380	235	162	50	37	39	50	60	26,5
731 04 051	Cradle UM 191 - PIN60-D60	400	250	190	60	45	39	60	60	38,9



Cradles with knock-off and brackets for UMB/UME cylinders

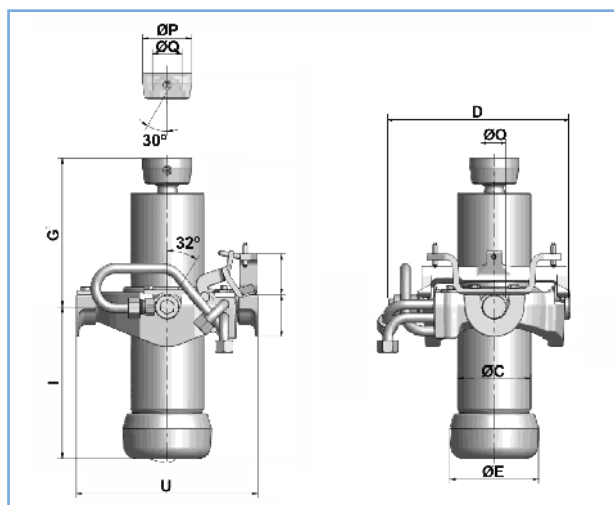
Part no.	Description	G (mm)	H (mm)	J (mm)	K (mm)	L (mm)	ØM (mm)	N (mm)	O (mm)	ØP (mm)	Q (°)	T (mm)	Weight (kg)
731 04 033	Cradle UM 149 - KOPN-PIN50-D50	310	137	330	210	152	50	37	39	50	60	122	26,7
731 04 043	Cradle UM 169 - KOPN-PIN50-D50	320	137	380	235	162	50	37	39	50	60	122	33,0
731 04 053	Cradle UM 191 - KOPN-PIN60-D60	340	147	400	250	190	60	45	39	60	60	122	45,6



KRA cylinders

Three-way under body tipping cylinder KR

The working pressure of the KRA/KRM cylinder is 280 Bar (300 max.) The cradle, knock-off and brackets are already mounted. KRM standard has a pneumatic knock-off, KRA standard has a hydraulic knock-off. The tipping weight is calculated at 275 bar.



- All cylinders 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 2	Type 3	Type 4
P(mm)	125	145	145
Q(mm)	60	75	80

KRA 107

Part no.	Description	Tipping weight (tons)	Weight (Kg.)	Ltr.	I (mm)	G (mm)	C (mm)	E (mm)	Cradle/ball
R53335033	KRA 107-3-1350-033-G0376-HC	16	86	9,0	312	376	128	157	2/2

KRA 125

Part no.	Description	Tipping weight (tons)	Weight (Kg.)	Ltr.	I (mm)	G (mm)	C (mm)	E (mm)	Cradle/ball
R54328132	KRA 125-3-1495-132-G0376	22	116	14,0	366	376	148	180	2/2
R54336112	KRA 125-3-1655-112-G0376	22	124	15,4	446	376	148	180	2/2
R54336013	KRA 125-3-1655-013-G0376	22	120	15,4	446	376	148	180	2/2
R54435033	KRA 125-4-1605-033-G0326-HC	16	98	13,0	316	326	148	180	2/2
R54435643	KRA 125-4-1605-643-G0326-HC	16	94	13,0	316	326	148	180	2/2
R54437242	KRA 125-4-1805-242-G0296-HC	15	102	14,6	396	296	148	180	2/2

KRA 145

Part no.	Description	Tipping weight (tons)	Weight (Kg.)	Ltr.	I (mm)	G (mm)	C (mm)	E (mm)	Cradle/ball
R55541643	KRA 145-5-2010-643-G0326-HC	18	113	19,3	320	326	170	200	2/2

KRA 167

Part no.	Description	Tipping weight (tons)	Weight (Kg.)	Ltr.	I (mm)	G (mm)	C (mm)	E (mm)	Cradle/ball
R56343037	KRA 167-3-2550-037-G0531-HC	38	273	43,3	615	531	196	228	3/4
R56541647	KRA 167-5-2005-647-G0344-HC	27	163	26,7	322	344	196	228	3/4
R56577132	KRA 167-5-3865-132-G0506-HC	21	248	51,2	540	506	196	228	3/2

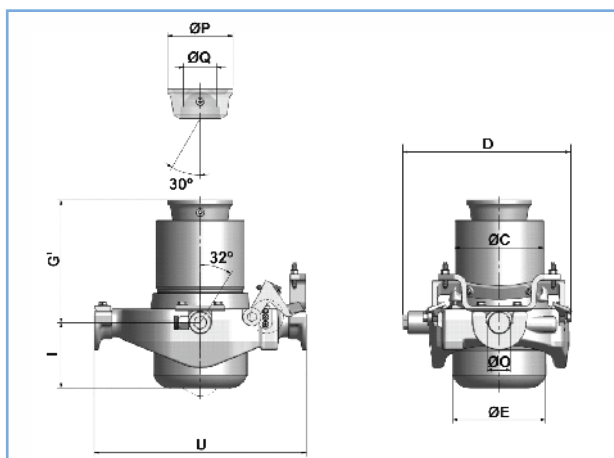
KRA 193

Part no.	Description	Tipping weight (tons)	Weight (Kg.)	Ltr.	I (mm)	G (mm)	C (mm)	E (mm)	Cradle/ball
R57467037	KRA 193-4-3400-037-G0526-HC	44	381	68,3	625	526	228	266	3/5

KRM cylinders & KR seal kits

Three-way under body tipping cylinder KR

The working pressure of the KRA/KRM cylinder is 280 Bar (300 max.) The cradle, knock-off and brackets are already mounted. KRM standard has a pneumatic knock-off, KRA standard has a hydraulic knock-off. The tipping weight is calculated at 275 bar.



- All cylinders 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 2	Type 3	Type 4
P(mm)	125	145	145
Q(mm)	60	75	80

KRM 145

Part no.	Description	Tipping weight (tons)	Kg.	Ltr.	I (mm)	G (mm)	C (mm)	E (mm)	Cradle/ball
R45417152	KRM 145-4-0825-152-G0302-HC	25	90	9,5	130	302	170	180	2/2
R45419152	KRM 145-4-0935-152-G0329-HC	25	93	10,7	130	329	170	180	2/2
R45627152	KRM 145-6-1405-152-G0327-HC	15	91	12,3	130	327	170	180	2/2
R45627643	KRM 145-6-1405-643-G0327-HC	15	85	12,3	130	327	170	180	2/2
R45633152	KRM 145-6-1585-152-G0357-HC	14	96	13,9	130	357	170	180	2/2
R45635152	KRM 145-6-1765-152-G0387-HC	14	100	15,4	130	387	170	180	2/2

KRM 167

Part no.	Description	Tipping weight (tons)	Kg.	Ltr.	I (mm)	G (mm)	C (mm)	E (mm)	Cradle/ball
R46626152	KRM 167-6-1420-152-G0313	22	129	17,2	145	313	196	207	3/2
R46627152	KRM 167-6-1420-152-G0313-HC	22	129	17,2	145	313	196	207	3/2
R46632152	KRM 167-6-1600-152-G0343	21	135	19,3	145	343	196	207	3/2
R46633152	KRM 167-6-1600-152-G0343-HC	21	135	19,3	145	343	196	207	3/2
R46633643	KRM 167-6-1600-643-G0343-HC	21	127	19,3	145	343	196	207	3/2
R46635122	KRM 167-6-1780-122-G0373-HC	19	142	21,4	145	373	196	207	3/2
R46635152	KRM 167-6-1780-152-G0373-HC	19	141	21,4	145	373	196	207	3/2
R46635643	KRM 167-6-1780-643-G0373-HC	19	133	21,4	145	373	196	207	3/2
R46639643	KRM 167-6-1960-643-G0403-HC	18	139	23,6	145	403	196	207	3/2
R46729152	KRM 167-7-1480-152-G0289-HC	19	124	16,0	145	289	196	207	3/2
R46731152	KRM 167-7-1550-152-G0299-HC	18	126	16,8	145	289	196	207	3/2
R46737152	KRM 167-7-1890-152-G0349-HC	17	135	20,4	145	349	196	207	3/2
R46737643	KRM 167-7-1900-643-G0349-HC	17	128	20,4	145	349	196	207	3/2

KRM 193

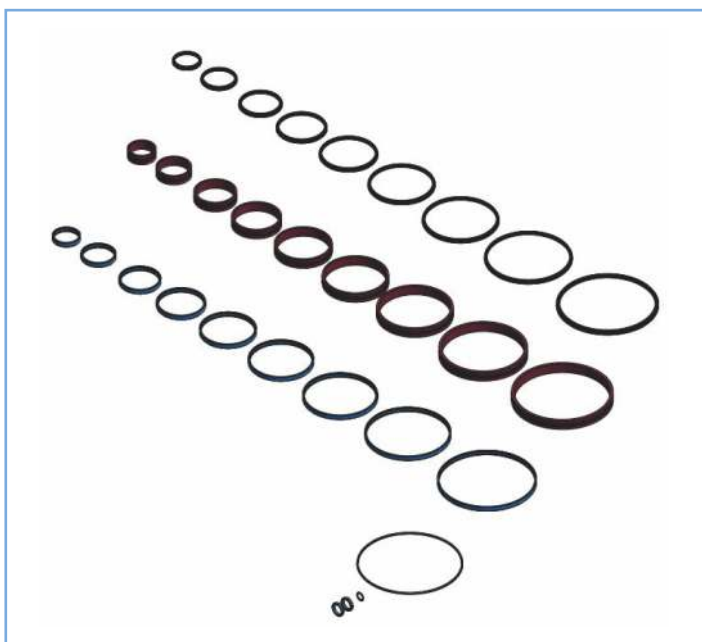
Part no.	Description	Tipping weight (tons)	Kg.	Ltr.	I (mm)	G (mm)	C (mm)	E (mm)	Cradle/ball
R47637647	KRM 193-6-1970-647-G0389-HC	28	214	32,0	190	389	228	240	4/5
R47737354	KRM 193-7-1875-354-G0319-HC	23	209	27,5	190	319	228	240	4/4
R47745354	KRM 193-7-2085-354-G0349-HC	21	216	30,4	190	349	228	240	4/4
R47745545	KRM 193-7-2085-545-G0349-HC	21	203	30,4	190	349	228	240	4/4
R47835352	KRM 193-8-1700-352-G0254-HC	20	192	22,5	190	254	228	240	4/2
R47839352	KRM 193-8-1940-352-G0284-HC	20	199	25,5	190	284	228	240	4/2
R47843352	KRM 193-8-2180-352-G0314-HC	19	207	28,7	190	314	228	240	4/2

KRM 223

Part no.	Description	Tipping weight (tons)	Kg.	Ltr.	I (mm)	G (mm)	C (mm)	E (mm)	Cradle/ball
R48743354	KRM 223-7-2100-354-G0335-HC	30	245	41,3	200	335	260	260	4/4
R48746354	KRM 223-7-2310-354-G0365	30	255	45,3	200	365	260	260	4/4
R48747354	KRM 223-7-2310-354-G0365-HC	30	255	45,3	200	365	260	260	4/4
R48838354	KRM 223-8-1945-354-G0286	30	226	34,9	200	286	260	260	4/4
R48844354	KRM 223-8-2195-354-G0316	30	235	39,1	200	316	260	260	4/4
R48845354	KRM 223-8-2195-354-G0316-HC	30	235	39,1	200	316	260	260	4/4
R48846354	KRM 223-8-2435-354-G0346	30	246	43,2	200	346	260	260	4/4
R48847354	KRM 223-8-2435-354-G0346-HC	30	246	43,2	200	346	260	260	4/4
R48949354	KRM 223-9-2465-354-G0315-HC	25	235	39,9	200	315	260	260	4/4
R48957354	KRM 223-9-2735-354-G0345-HC	25	245	44,1	200	345	260	260	4/4

Seal kits for KRM/KRA cylinders

Part no.	Description
754 20 156	Seal kit complete KRM 145 - 6
754 20 165	Seal kit complete KRM 167 - 5
754 20 166	Seal kit complete KRM 167 - 6
754 20 177	Seal kit complete KRM 193 - 7
754 20 188	Seal kit complete KRM 223 - 8
754 20 189	Seal kit complete KRM 223 - 9
754 20 243	Seal kit complete KRA 125 - 3
754 20 253	Seal kit complete KRA 145 - 3
754 20 263	Seal kit complete KRA 167 - 3
754 20 264	Seal kit complete KRA 167 - 6
754 20 275	Seal kit complete KRA 193 - 5



CATALOGUE UNDER BODY CYLINDERS



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Dealer stamp

