

## STANDARD

LMC's RK safety clamps are manufactured in compliance with EN 14420-3 / DIN 2817, and are used to assemble EN/DIN standardized hoses. Threaded-, quick- and flange couplings with a smooth hose shank complying with EN 14420-2 / DIN 2817 are assembled with RK safety clamps.

## OPERATION

For safety reasons RK safety clamps should be used for larger hose diameters. RK safety clamps have a rim on the inside, which fits over the hose shank collar when the bolts are tightened. When RK safety clamps are assembled correctly, the coupling cannot be pulled out of the hose.

When a hose is withdrawn from service for any reason, the LMC-Couplings shells and couplings can be easily dismantled for reuse.

## APPLICATION

Assembly of the rubber hoses used in food, pharmaceutical and transport industry applications.

Aluminium RK clamps are used in many applications, whilst brass RK clamps are used in loading and unloading terminals to prevent the risk of sparking. Stainless steel RK clamps are often used in clean working environments.

## WORKING PRESSURE

-0.8 bar / -12 psi to 25 bar/362 psi

## TEMPERATURE

-20°C/-4 °F to + 65°C/149°F

Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature.



## MATERIAL

### ■ RK safety clamp shells

Drop forged aluminium	USA	ASTM B247, grade 6061-T6
	Germany	DIN 1749 grade AlMgSi1 F28 work stock No. 3.2315.61
	UK	BS 1472 HE 20 Grade 6061
Drop forged brass	USA	ASTM B16, grade C36000
	Germany	DIN 17660 grade CuZn36Pb3
	UK	BS 2847 grade CZ124
Cast stainless steel	USA	ASTM A666 grade 316 stainless steel
	Germany	DIN 17440 grade 1.4401 X5CrNiMo1810
	UK	NF A35-579 grade Z6CND17.11

### ■ Nuts and bolts

Aluminium RK safety clamps: bolts complying with EN ISO 4762 / DIN 912, zinc plated 8.8  
nuts complying with EN ISO 4032 / DIN 934, zinc plated 8.8

Brass RK safety clamps: bolts complying with EN ISO 4762 / DIN 912, zinc plated 8.8  
nuts complying with EN ISO 4032 / DIN 934, zinc plated 8.8

Stainless steel RK safety clamps: bolts complying with EN ISO 4762 / DIN 912, stainless steel A.2  
nuts complying with EN ISO 4032 / DIN 934, stainless steel A.2

RK safety clamps are supplied complete with nuts and bolts.

## ASSEMBLY

See chapter E for the correct assembly instructions



# RK SAFETY CLAMPS



## RK SAFETY CLAMPS EN 14420-3 / DIN 2817: ALUMINIUM

ND	For hose mm	OD hose min-max mm	Dimensions		Nuts and bolts		Weight/pc Kg	Reference
			Height mm	Width mm	Quantity	Thread metric		
15	13 x 5	22 - 24	50	51	4	M6	0.12	RK013
20	19 x 6	30 - 33	50	63	4	M6	0.12	RK019
25	25 x 6	36 - 39	50	69	4	M6	0.14	RK025
32	32 x 6	43 - 46	50	75	4	M6	0.15	RK032
40	38 x 6.5	50 - 52	50	83	4	M6	0.15	RK038
50	50 x 8	64 - 67	56	102	4	M8	0.29	RK050
50	50 x 10	69 - 71	56	102	4	M8	0.33	RK050010
65	65 x 7	78 - 82	74	120	4	M8	0.43	RK063
80	75 x 8	89 - 93	76	132	4	M8	0.49	RK075
80	75 x 10	94 - 97	76	132	4	M8	0.52	RK075010
100	100 x 8	114 - 119	120	166	4	M10	1.09	RK100
100	100 x 10	118 - 122	120	167	4	M10	1.15	RK100010
125	125 x 10	143 - 148	145	210	6	M10	1.88	RK125
150	150 x 10	168 - 174	180	227	6	M12	3.78	RK150
200	200 x 12	222 - 229	243	288	8	M12	6.52	RK200



Production method: drop forging

Set of RK safety clamps = one pair of clamps, nuts and bolts included

Bolts: DIN 912 / EN ISO 4762, zinc plated 8.8

Nuts: DIN 934 / EN ISO 4032, zinc plated 8.8

## RK SAFETY CLAMPS EN 14420-3 / DIN 2817: BRASS

ND	Hose mm	OD hose min-max mm	Dimensions		Nuts and bolts		Weight/pc Kg	Reference
			Height mm	Width mm	Quantity	Thread metric		
15	13 x 5	22 - 24	50	51	4	M6	0.29	RKM013
20	19 x 6	30 - 33	50	63	4	M6	0.34	RKM019
25	25 x 6	36 - 39	50	69	4	M6	0.39	RKM025
32	32 x 6	43 - 46	50	75	4	M6	0.40	RKM032
40	38 x 6.5	50 - 52	50	83	4	M6	0.50	RKM038
50	50 x 8	64 - 67	56	102	4	M8	0.90	RKM050
50	50 x 10	69 - 71	56	102	4	M8	0.90	RKM050010
65	63 x 8	78 - 82	74	120	4	M8	1.21	RKM063
65	63 x 10	84 - 87	74	120	4	M8	1.31	RKM063010
80	75 x 8	89 - 93	76	132	4	M8	1.39	RKM075
80	75 x 10	94 - 97	76	132	4	M8	1.52	RKM075010
100	100 x 8	114 - 119	120	166	4	M10	1.09	RKM100



Production method: drop forging

Set of RK safety clamps = one pair of clamps, nuts and bolts included

Bolts: DIN 912 / EN ISO 4762, zinc plated 8.8

Nuts: DIN 934 / EN ISO 4032, zinc plated 8.8

# RK SAFETY CLAMPS



## RK SAFETY CLAMPS EN 14420-3 / DIN 2817: STAINLESS STEEL

ND	Hose mm	OD hose min-max mm	Dimensions		Nuts and bolts		Weight/pc Kg	Reference
			Height mm	Width mm	Quantity	Thread metric		
15	13 x 5	22 - 24	50	51	4	M6	0.25	RKR013
20	19 x 6	30 - 33	50	63	4	M6	0.30	RKR019
25	25 x 6	36 - 39	50	69	4	M6	0.33	RKR025
32	32 x 6	43 - 46	50	76	4	M6	0.37	RKR032
40	38 x 6.5	50 - 52	50	83	4	M6	0.41	RKR038
50	50 x 8	64 - 67	56	102	4	M8	0.69	RKR050
65	63 x 8	78 - 82	74	120	4	M8	1.06	RKR063
80	75 x 8	89 - 93	76	132	4	M8	1.20	RKR075
100	100 x 8	114 - 119	120	166	4	M10	2.90	RKR100



Production method: investment casting

Set of RK safety clamps = one pair of clamps, nuts and bolts included

Bolts: DIN 912 / EN ISO 4762, stainless steel A.2

Nuts: DIN 934 / EN ISO 4032, stainless steel A.2

# RK SAFETY CLAMPS



## BOLTS EN ISO 4762

Size	Material	Box quantity	Weight/pc Kg	Reference
M6x20	Zinc plated 8.8	500	3.22	BVID06X20
M8x25	Zinc plated 8.8	200	2.94	BVID08X25
M10x40	Zinc plated 8.8	100	3.20	BVID10X40
M6x20	Stainless steel A.2	500	3.16	BRID06X20
M8x25	Stainless steel A.2	200	3.00	BRID08X25
M10x40	Stainless steel A.2	100	3.20	BRID10X40



## NUTS EN ISO 4032

Size	Material	Box quantity	Weight/pc Kg	Reference
M6	Zinc plated 8.8	250	0.55	MVD06
M8	Zinc plated 8.8	250	1.20	MVD08
M10	Zinc plated 8.8	250	1.75	MVD10
M6	Stainless steel A.2	250	0.50	MRD06
M8	Stainless steel A.2	250	1.10	MRD08
M10	Stainless steel A.2	250	1.60	MRD10



## IDENTIFICATION RING

ND	Material	Ø ID mm	Weight/pc Kg	Reference
13	Stainless steel	31.0	0.03	IR013
19	Stainless steel	34.0	0.06	IR019
25	Stainless steel	40.0	0.07	IR025
32	Stainless steel	45.0	0.08	IR032
38	Stainless steel	56.0	0.12	IR038
50	Stainless steel	66.0	0.11	IR050
75	Stainless steel	92.0	0.28	IR075
100	Stainless steel	120.0	0.44	IR100



Polished stainless steel AISI 304 - EN 1.4301