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# Safety Clamps



ENGINEERING YOUR SUCCESS.

## Safety clamps EN 14420-3/DIN 2817

### Pressure range

Working pressure -0,8 bar (-12 psi) up to 25 bar (362 psi)

### Temperature range

20 °C (-4 °F) to + 65 °C (149 °F)

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

### Materials

#### Forged aluminium

USA	ASTM B247, grade 6061-T6
Germany	DIN 1749 grade AlMgSi1
UK	BS 1472 HE 20 Grade 6061

#### Forged brass

USA	ASTM B16, grade C36000
Germany	DIN 17660 grade CuZn36Pb3
UK	BS 2847 grade CZ124

#### Investment cast stainless steel

USA	ASTM A666 grade 316 stainless steel
Germany	DIN 17440 grade 1.4401 X5CrNiMo1810
UK	BS 316 S16

### Features

- Assembly of the rubber hoses used in food, pharmaceutical and transport industry applications
- Safety clamps are used to assemble EN/DIN standardized hoses and couplings with a smooth hose shank complying with EN 14420-2 / DIN 2817
- RK safety clamps are supplied complete with nuts and bolts

#### 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

##### 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

##### 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

## n – Safety Clamps

### Safety clamps EN 14423 / DIN 2826

#### Pressure range

Working pressure	18 bar (261) psi with a temperature of 210 °C / 410 °F
Test pressure	90 bar (1305 psi)
Burst pressure	180 bar (2611 psi)

#### Temperature range

Saturated steam	+210 °C / 410 °F
Hot water	+120 °C / 248 °F

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

#### Materials

##### Forged brass

USA	ASTM B16, grade C36000
Germany	DIN 17660 grade CuZn36Pb3
UK	BS 2847 grade CZ124

##### Investment cast stainless steel

USA	ASTM A666 grade 316 stainless steel
Germany	DIN 17440 grade 1.4401 X5CrNiMo1810
UK	BS 316 S16

#### Features

- Steam clamps are used in saturated steam and hot water applications. EN ISO 6134 forbids the use of quick release couplings in steam applications
- Steam clamps are physically larger, longer, have deeper inner groove and consist of a thicker wall, than other safety clamps
- Steam safety clamps are not interchangeable or replaceable by any other safety clamps
- Steam safety clamps are supplied complete with nuts and bolts

#### Nuts and bolts

##### Brass steam 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

##### Stainless steel steam 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

#### Safety Warning

Steam applications can be hazardous; therefore assembling should only be carried out by trained personnel. Use only couplings with steam safety clamps (EN 14423 / DIN 2826). Check coupling tightness before every utilisation. Drain hose after use. When not in use, store the hose on a flat surface (shelve) and never hang from a hook. Steam hoses gradually decrease in their performances during service life. Consequently, they need to be regularly inspected by trained personnel wearing adequate protective cloths overall, including eye protection.

## Safety Clamps DIN 2817

Production method: **forging**

### Aluminium and Brass

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

Nuts: **DIN 934 / EN ISO 4032, zinc plated 8**

### Stainless Steel

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

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

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

### Aluminium



Part-No.	Hose I.D. mm	Hose O.D. mm	Dimension		Nuts and bolts		Weight kg/pcs
			Height mm	Width mm	Quantity	Thread metric	
RK013	13 x 5	22 - 24	50	51	4	M6	0,12
RK019	19 x 6	30 - 33	50	63	4	M6	0,12
RK025	25 x 6	36 - 39	50	69	4	M6	0,14
RK032	32 x 6	43 - 46	50	76	4	M6	0,15
RK038	38 x 6,5	53 - 52	50	83	4	M6	0,15
RK050	50 x 8	63 - 67	56	102	4	M8	0,29
RK050010*	50 x 10	69 - 71	56	102	4	M8	0,33
RK063	63 x 8	78 - 82	74	120	4	M8	0,43
RK075	75 x 8	89 - 93	76	132	4	M8	0,49
RK075010*	75 x 10	94 - 97	76	132	4	M8	0,52
RK100	100 x 8	114 - 119	120	166	4	M10	1,09
RK125	125 x 10	143 - 148	145	210	6	M10	1,88
RK150	150 x 10	167 - 173	180	227	6	M12	3,78
RK200	200 x 12	222 - 229	240	284	8	M12	6,52

### Brass



Part-No.	Hose I.D. mm	Hose O.D. mm	Dimension		Nuts and bolts		Weight kg/pcs
			Height mm	Width mm	Quantity	Thread metric	
RKM013	13 x 5	22 - 24	50	51	4	M6	0,29
RKM019	19 x 6	30 - 33	50	63	4	M6	0,34
RKM025	25 x 6	36 - 39	50	69	4	M6	0,39
RKM032	32 x 6	43 - 46	50	76	4	M6	0,40
RKM038	38 x 6,5	50 - 53	50	83	4	M6	0,50
RKM050	50 x 8	63 - 67	56	102	4	M8	0,90
RKM063	63 x 8	78 - 82	74	120	4	M8	1,21
RKM063010*	63 x 10	84 - 87	74	120	4	M8	1,31
RKM075	75 x 8	89 - 93	76	132	4	M8	1,39
RKM075010*	75 x 10	94 - 97	76	132	4	M8	1,52
RKM100	100 x 8	114 - 119	120	166	4	M10	1,09

### Stainless Steel (AISI 316/1.4401)



Part-No.	Hose I.D. mm	Hose O.D. mm	Dimension		Nuts and bolts		Weight kg/pcs
			Height mm	Width mm	Quantity	Thread metric	
RKR013	13 x 5	22 - 24	50	51	4	M6	0,25
RKR019	19 x 6	30 - 33	50	63	4	M6	0,30
RKR025	25 x 6	36 - 39	50	69	4	M6	0,33
RKR032	32 x 6	43 - 46	50	76	4	M6	0,37
RKR038	38 x 6,5	50 - 53	50	83	4	M6	0,41
RKR050	50 x 8	63 - 67	56	102	4	M8	0,69
RKR06306	63 x 6	73 - 77					
RKR063	63 x 8	78 - 82	74	120	4	M8	1,06
RKR075	75 x 8	89 - 93	76	132	4	M8	1,20
RKR100	100 x 8	114 - 119	120	166	4	M10	2,90

## Steam Clamps DIN 2826

Production method: **forging**

### Aluminium and Brass

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

Nuts: **DIN 934 / EN ISO 4032, zinc plated 8**

### Stainless Steel

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

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

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

### Stainless Steel (AISI 316/1.4401)



Part-No.	Hose I.D. mm	Hose O.D. mm	Dimension		Nuts and bolts		Weight kg/pcs
			Height mm	Width mm	Quantity	Thread metric	
RKSR013	13 x 6	24 - 26	65	53	4	M6	0,31
RKSR019	19 x 7	32 - 34	65	68	4	M8	0,46
RKSR025	25 x 7,5	39 - 41	65	77	4	M8	0,53
RKSR032	32 x 8	47 - 50	75	86	4	M8	0,78
RKSR038	38 x 8	53 - 56	90	101	4	M10	1,10
RKSR050	50 x 9	67 - 69	100	111	4	M10	1,29

### Brass



Part-No.	Hose I.D. mm	Hose O.D. mm	Dimension		Nuts and bolts		Weight kg/pcs
			Height mm	Width mm	Quantity	Thread metric	
RKS013	13 x 6	24 - 26	65	53	4	M6	0,33
RKS019	19 x 7	32 - 34	65	68	4	M8	0,50
RKS025	25 x 7,5	39 - 41	65	77	4	M8	0,58
RKS032	32 x 8	47 - 50	75	86	4	M8	0,72
RKS038	38 x 8	53 - 56	90	101	4	M10	1,30
RKS050	50 x 9	67 - 69	100	111	4	M10	1,58