

Technical Data Sheet TI-A30 SITEMA flanges for Safety Catchers and spring bases

General Information

The standard SITEMA Safety Catchers series K and KR are supplied with a set of threaded boreholes to bolt the unit to the machine frame.

However, often a mounting flange is required because bolting from below is impossible or a floating attachment is necessary (see also "Technical Information TI-A10", Chapter 13 "Attachment").

The different standard mounting flanges for typical applications are listed below. On page 3 you will find mounting flanges for spring bases. Page 4 shows mounting flanges for Safety Catchers series KR/T and KRP/T with tensile load direction to mounting surface.

Slit mounting flanges (Fig. 1) are used for all SITEMA Safety Catchers with **compressive load direction** to mounting surface (series K, KR and KRP). They allow you to install the Safety Catcher without having to dismount the pre-adjusted proximity switch holders.

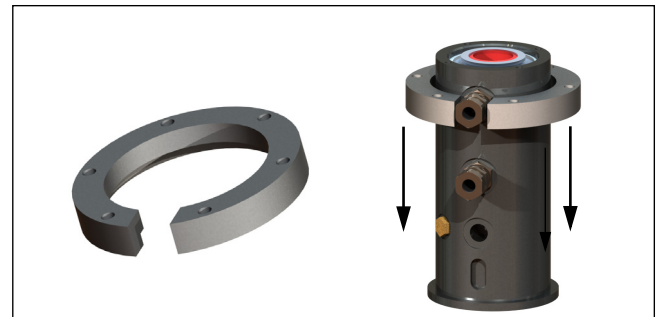


Fig. 1: Slit mounting flange for Safety Catchers with compressive load direction (series K, KR and KRP)

For all SITEMA Safety Catchers with **tensile load direction** (series KR/T and KRP/T) use mounting flanges without slot.

Mounting flanges for series K, KR and KRP Load direction compressive

Mounting flange fix - type FL/SF (standing / fixed)

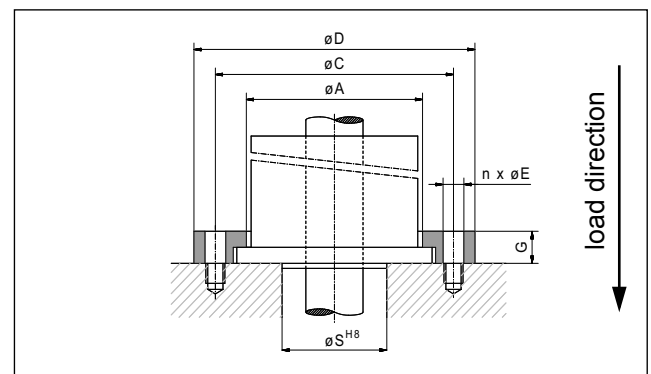
For attachment of Safety Catchers KR and KRP on the machine frame or (upside down) travelling with the slide

Alternatively to the fixation by bolting from below, the mounting flange FL/SF can be used to **fix** the Safety Catcher to the machine frame.

In this case, it has to be ensured that the retaining rod has sufficient clearance at its attachment, so that no lateral forces can be induced to the clamping device.

This standard flange is only available for KR and KRP-series Safety Catchers. Nevertheless, fixed flange attachments for K-series units are available on request. Please ask for details.

For series KR and KRP



For series KR and KRP

Type	for Safety Catcher			D	C	A	G	E	n	S
(order no.)				mm	mm	mm	mm	mm		mm
FL/SF 25	KR 25	or	KRP 25	108	97	76	15	6.6	6 x 60°	40
FL/SF 40	KR 40	or	KRP 40	160	144	113	19	9	6 x 60°	52
FL/SF 56	KR 56	or	KRP 56	198	180	147	19	11	6 x 60°	70
FL/SF 80	KR 80	or	KRP 80	255	235	201	24	11	6 x 60°	100

Subject to modification without prior notice

Mounting flange floating - type FL/SL (standing / floating)

For attachment of Safety Catchers K, KR and KRP on the machine frame

To avoid possible lateral forces, it is often helpful to attach the Safety Catcher FL/SL **floating** on the machine frame.

In the case of hydraulic types, pressure must be supplied via a flexible line in order to allow the desired three-dimensional movements of the housing. Please note that there is no stop in torsional direction, so that the housing will be self-aligning to the forces applied by the connecting hose.

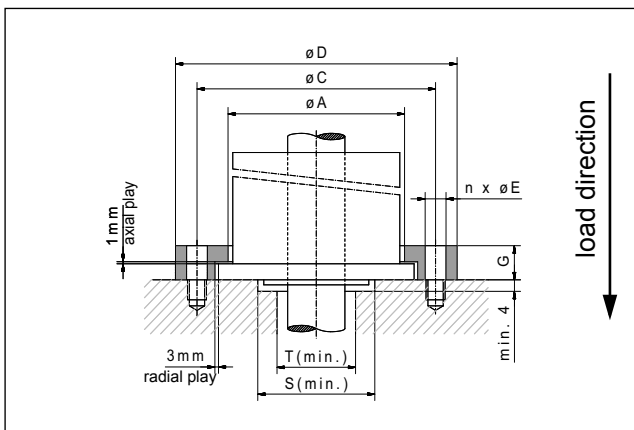
In the case of pneumatic types, pressure must be applied via a rigid line in order to ensure an unhindered diverting of the pressure medium.

i All connection lines must be laid out **without kinks**. If there is any danger of kinking, appropriate precautions must be taken (protective tube, thicker hose etc.).

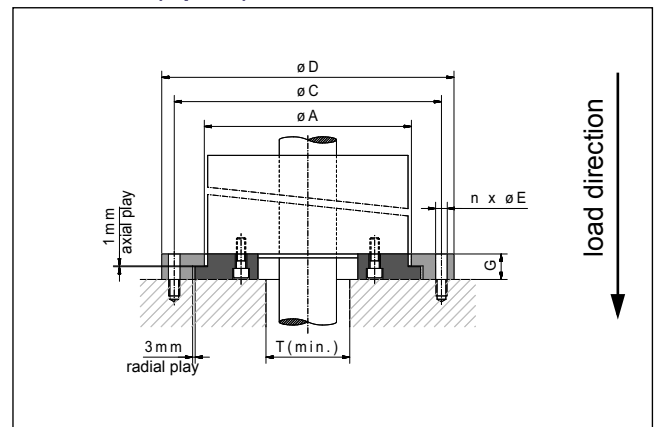
The mounting flanges for the Safety Catchers KR/KRP and K are identical as far as function and application are concerned, but for design reasons (no shoulder at K-series flanges), the flanges for series K Safety Catchers consist of two parts.

One part is first bolted to the Safety Catcher from below, while the other one is then bolted to the machine frame.

For series KR and KRP



For series K (2 parts)



For series KR and KRP

Type	for Safety Catcher			D	C	A	G	E	n	T	S
(order no.)				mm	mm	mm	mm	mm		mm	mm
FL/SL 25	KR 25	or	KRP 25	108	97	78	16	6.6	6 x 60°	32	47
FL/SL 40	KR 40	or	KRP 40	160	144	113	20	9	6 x 60°	47	59
FL/SL 56	KR 56	or	KRP 56	198	180	147	20	11	6 x 60°	63	77
FL/SL 80	KR 80	or	KRP 80	255	235	201	25	11	6 x 60°	87	107

For series K (2 parts)

Type	for Safety Catcher			D	C	A	G	E	n	T
(order no.)				mm	mm	mm	mm	mm		mm
FL/SL 100	K 100	or	KRP 100	350	320	247	30	14	6 x 60°	107
FL/SL 125	K 125			370	330	277	35	18	4 x 90°	132
FL/SL 140	K 140			420	380	327	35	18	4 x 90°	147

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Mounting flange floating - type FL/HL (hanging / floating)

For attachment of Safety Catchers KR and KRP travelling under the slide

The floating flange FL/HL should be used if the Safety Catcher is arranged attached to the slide from below and travelling with it, while the rod is fixed to the machine frame usually hanging.

Due to the axial play of 8 mm, this flange additionally fulfills the function of a spring base ("Technical Information TI-A10", Chapter 13 "Attachment").

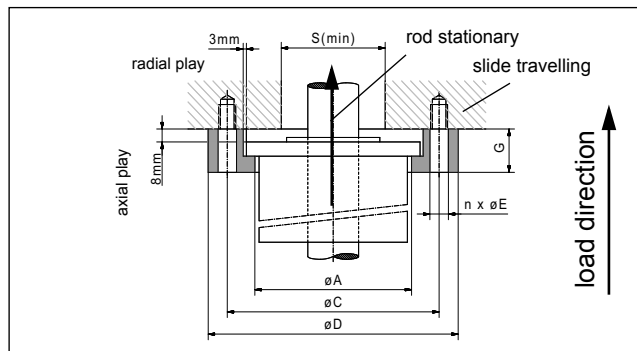
In the case of hydraulic series, pressure must be supplied via a flexible line to allow the desired three-dimensional movements of the housing. There is no stop in torsional direction, so that the housing will be self-aligning to the forces applied by the connecting hose.

In the case of pneumatic series, pressure must be applied via a rigid line to ensure an unhindered diverting of the medium.

i All connection lines must be laid out without kinks. If there is any danger of kinking, appropriate precautions must be taken (protective tube, thicker hose etc.).

Due to the design, the floating flange FL/HL is only available for series KR and KRP.

For series KR and KRP



For series KR and KRP

Type	for Safety Catchers			D	C	A	G	E	n	S
(order no.)				mm	mm	mm	mm	mm		mm
FL/HL 25	KR 25	or	KRP 25	108	97	78	23	6,6	6 x 60°	47
FL/HL 40	KR 40	or	KRP 40	160	144	114	27	9	6 x 60°	59
FL/HL 56	KR 56	or	KRP 56	198	180	148	27	11	6 x 60°	77
FL/HL 70	KR 70	or	KRP 70	234	214	180	32	11	6 x 60°	97
FL/HL 80	KR 80	or	KRP 80	255	235	202	32	11	6 x 60°	107

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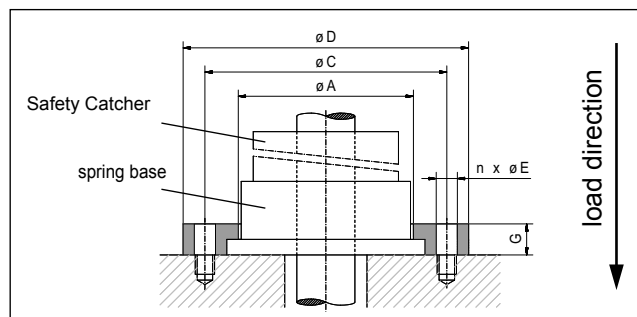
Mounting flange for spring bases - type FL/FS

For attachment of spring bases FS on the machine frame

The flange FL/FS can be used as an alternative to bolting the spring bases FS from below.

i All connection lines must be laid out without kinks. If there is any danger of kinking, appropriate precautions must be taken (protective tube, thicker hose etc.).

For series KR and KRP



For series KR and KRP

Type	for spring base	D	C	A	G	E	n
(Bestellnr.)		mm	mm	mm	mm	mm	
FL/FS 25	FS 25	120	110	93	18	6.6	6 x 60°
FL/FS 40	FS 40	175	160	141	24	9	6 x 60°
FL/FS 56	FS 56	230	210	178	30	11	6 x 60°
FL/FS 80	FS 80	284	264	238	30	11	6 x 60°
FL/FS 100	FS 100	304	280	248	40	14	6 x 60°
FL/FS 125	FS 125	376	350	315	40	18	4 x 90°
FL/FS 140	FS 140	406	380	345	40	18	4 x 90°

Technische Änderungen vorbehalten

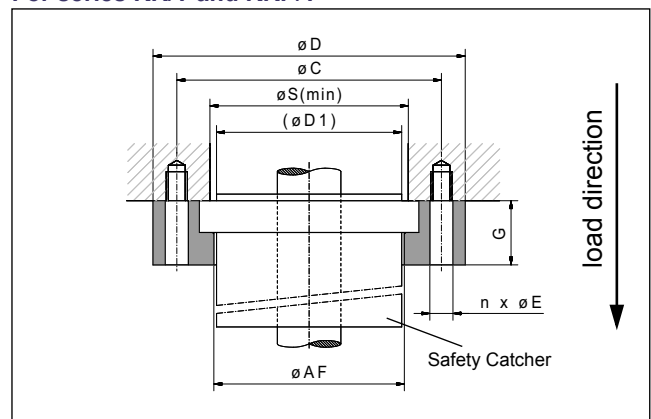
Mounting flanges for series KR/T and KRP/T

Load direction tensile

Mounting flange fix - type FL/TF

If the retaining rod has sufficient clearance on the slide or load carrying device to move freely, the Safety Catcher can be centered and bolted on the machine frame.

For series KR/T and KRP/T



For series KR/T and KRP/T

Type	for Safety Catcher			AF	C	D	G	E	n	øS
(order no.)				mm	mm	mm	mm	mm		mm
FL/TF 25	KR/T 25	or	KRP/T 25	74	112	129	30	11	6 x 60°	73
FL/TF 40	KR/T 40	or	KRP/T 40	109	153	175	40	14	8 x 45°	109
FL/TF 56	KR/T 56	oder	KRP/T 56	143	200	236	50	17.5	8 x 45°	143
FL/TF 80	KR/T 80	oder	KRP/T 80	197	270	310	70	22	12 x 30°	203

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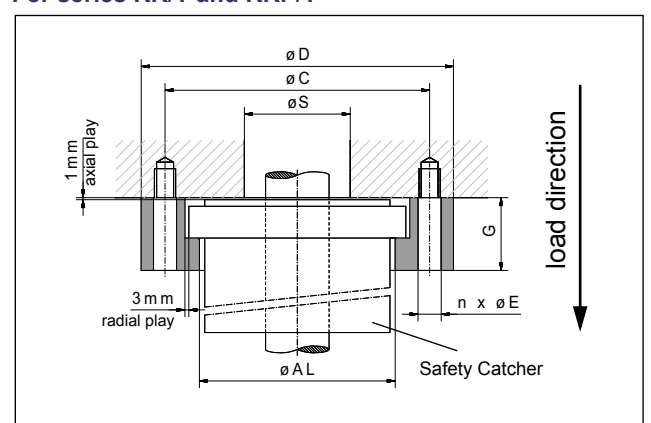
Mounting flange floating - type FL/TL

To avoid possible lateral forces, it is often helpful to attach the safety catcher **floating** on the machine frame, using flange FL/TL. It allows the housing to move radially and axially as well as to tilt.

Fixing pins prevent the Safety Catcher from twisting with the floating flange FL/TL and thereby protecting connection lines from kinking.

i All connection lines must be laid out **without kinks**. If there is any danger of kinking, appropriate precautions must be taken (protective tube, thicker hose etc.).

For series KR/T and KRP/T



For series KR/T and KRP/T

Type	for Safety Catcher			AL	C	D	G	E	n	øS (min. max.)	
(order no.)				mm	mm	mm	mm	mm		mm	
FL/TL 25	KR/T 25	oder	KRP/T 25	79	112	129	33	11	6 x 60°	50	55
FL/TL 40	KR/T 40	oder	KRP/T 40	114	153	175	44	14	8 x 45°	75	85
FL/TL 56	KR/T 56	oder	KRP/T 56	148	200	236	55	17.5	8 x 45°	100	115
FL/TL 80	KR/T 80	oder	KRP/T 80	202	270	310	76	22	12 x 30°	135	125

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