

Technical Data Sheet TI-A13 Safety Catchers series KR/T (with DGUV approval)

Load direction tensile (to mounting surface)

General information, particularly regarding purpose, function, choosing the right type, attachment and control is provided in "Technical Information TI-A10".

SITEMA flanges, which are required for the attachment, are listed in "Technical Data Sheet TI-A30".

Further important practical advice is given in "Operating Manual BA-A11".

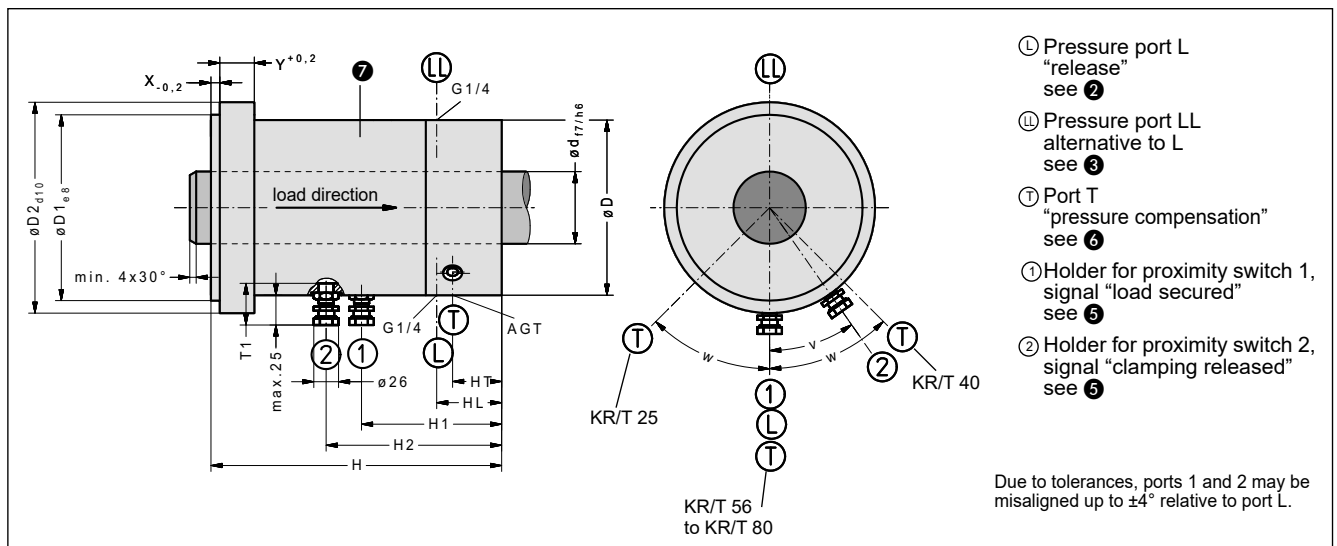


Fig. 1: Dimensions of Safety Catchers series KR/T (download CAD files from www.sitema.com)

Type	ID no. (order no.)	d mm	M kN	H mm	D1 mm	D2 mm	D mm	X mm	Y mm	T1 mm	V cm ³	AGT	HL mm	HT mm	H1 mm	H2 mm	v	w	Wt. kg
KR/T 25	KR 025 35	25	10	155	70	88	71	3	13	32	3	G1/8	51	51	87	105	23.5°	45°	4.5
KR/T 40	KR 040 35	40	33	214	106	125	106	4	20	34	6	G1/4	63	22	109	128	35°	35°	13
KR/T 56	KR 056 35	56	67	265	140	164	140	5	25	45	11	G1/4	69	25	125	168	0°	0°	26
KR/T 63	KR 063 35	63	85	289	160	188	160	5	30	45	12	G1/4	75	31	129	167	0°	0°	38
KR/T 80	KR 080 35	80	133	325	200	225	194	6	34	45	17	G1/4	73	29	131	179	0°	0°	60

bold types = preferential sizes, available from stock

Subject to modification without prior notice

① M is the admissible load the mass to be secured exerts on the Safety Catcher. The holding (braking) force for dry or hydraulic-oil wetted rods is not less than 2 x M but will not exceed 3.5 x M.

② The necessary pressure to keep the clamping released is 40 bar. In case a spring base is installed, the required pressure for releasing without lifting is 60 bar, see "Technical Data Sheet TI-A21". The admissible operating pressure is 250 bar.

③ As supplied, pressure port LL is plugged by a plug screw. It may be used alternatively to pressure port L and is useful for air-bleeding. We recommend to install an auto-bleeder at port LL (or L) as described in "Technical Information TI-Z10".

④ Hydraulic operating volume

⑤ Proximity switch holders are provided for standard inductive proximity switches (M12 x 1, nominal switching distance 2 mm, flush mountable, NO (normally open), except KR/T 25: M8 x 1 with a nominal switching distance of 1.5 mm).

The dimension T1 indicates how deep the proximity switch immerses in the Safety Catcher measured from the holder's top.

For easier service, the proximity switch holders have a depth stop. If you order a suitable SITEMA flange to the Safety Catcher, the proximity switch holders will be mounted and pre-adjusted to the right depth. The switches only need to be inserted to the stop and then clamped.

If the Safety Catcher is delivered without flange, the holders will not be mounted and pre-adjusted because the flange needs to be mounted beforehand. After mounting the flange, the holders have to be mounted and readjusted to the right depth.

The proximity switches are not included in the standard scope of delivery but are available as accessories.

⑥ Internal volume changes during switching are compensated at port T. It is plugged with an air filter which, in a dry and clean factory environment, offers sufficient protection against dust etc.

If, however, moisture or aggressive media are present, a pressure-less hose instead of the filter must be installed to connect the Safety Catcher with clean atmosphere (e.g. a clean pressureless container).

⑦ The surface of the housing parts is primed black, the front sides are treated with corrosion protection wax.

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Further important practical advice is given in "Operating Manual BA-A11".

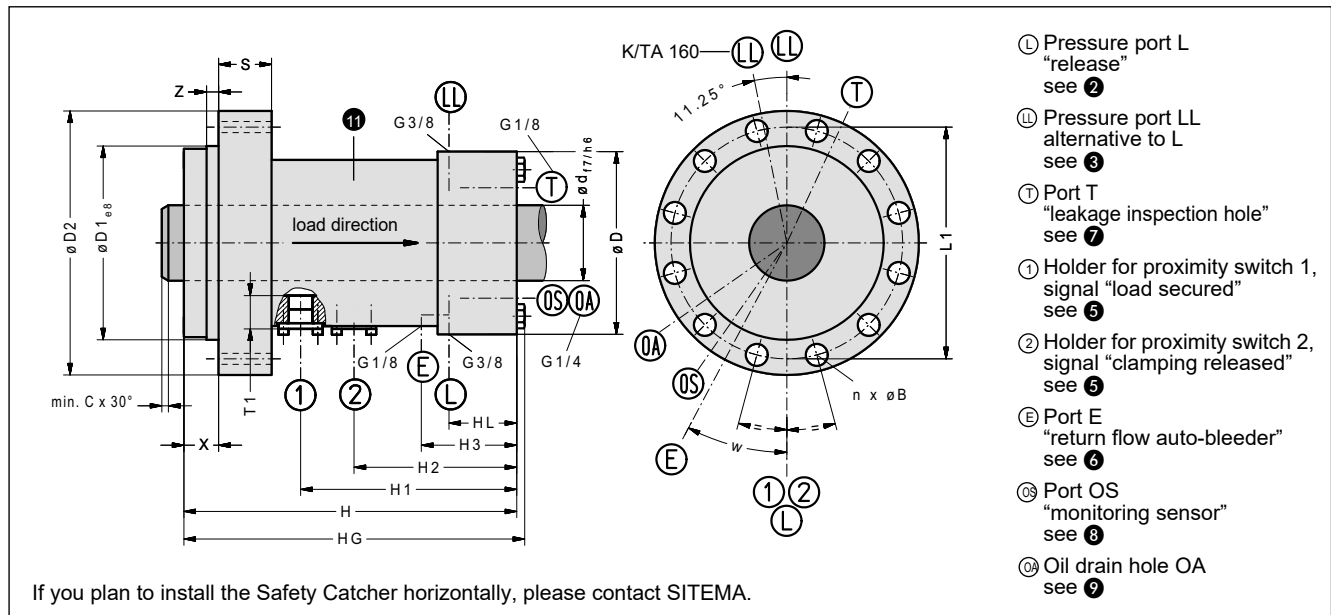


Fig. 2: Dimensions of Safety Catcher K/TA (download CAD files from www.sitema.com)

Type	ID no.	d	C	M	HG	H	D1	D2	D	X	Z	S	n	B	L1	T1	V	w	HL	H1	H2	H3	Wt.	
	(order no.)	mm	mm	kN	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	cm ³	mm	mm	mm	mm	mm	kg	
K/TA 100	K 100 35	100	5	220	-	327	245	335	255	40	17	60	12	26	M24	290	35	28	61°	54.5	188	136	122	106
K/TA 125	K 125 35	125	5	330	-	380	275	380	290	60	20	60	12	26	M24	340	48	28	0°	61.5	232	182	124	161
K/TA 140	K 140 35	140	5	500	-	425	340	460	350	75	45	80	12	33	M30	405	60	28	30°	74.5	173	123	137	272
K/TA 160	K 160 35	160	5	750	-	540	370	480	380	245	40	85	16	33	M30	425	57	28	33.75°	74.5	173	123	137	383
K/TA 200	K 200 35	200	7	1000	574	551	440	595	455	50	15	100	18	39	M36	525	65	42	0°	61.5	352	297	129	600
K/TA 220	K 220 35	220	7	1100	624	588	470	630	475	50	15	110	12	45	M42	550	82	42	0°	61.5	263	213	129	725

bold types = preferential sizes, available from stock

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- ① M is the admissible load the mass to be secured exerts on the Safety Catcher. The holding (braking) force for dry or hydraulic-oil wetted rods is not less than 2 x M, but will not exceed 3.5 x M.
- ② The necessary pressure to keep the clamping released is 40 bar. The admissible operating pressure is 250 bar.
- ③ As supplied, pressure port LL is plugged by a plug screw. It may be used alternatively to pressure port L and is useful for air-bleeding.
- ④ Hydraulic operating volume
- ⑤ Proximity switch holders are provided for standard inductive proximity switches (M12 x 1, nominal switching distance 2 mm, flush mountable, NO (normally open)). The dimension T1 indicates how deep the proximity switch immerses in the Safety Catcher measured from the holder's top. The proximity switches are not included in the standard scope of delivery but are available as accessories.

- ⑥ For air-bleeding, an auto-bleeder is integrated. Due to the permanent bleeding, a small quantity of oil-air mix will escape from port E. Therefore, a pressureless hose to the tank is necessary (for further information see "Technical Information TI-Z10").
- ⑦ At port T, leakage due to worn or damaged seals of the plunger pistons can be detected at an early stage.
- ⑧ Optionally, the unit can be equipped with an oil sensor. This sensor indicates beginning leakage due to worn or damaged seals at an early stage.
- ⑨ The oil drain hole is required during a replacement of the plunger pistons.
- ⑩ Prepare threads with these dimensions for screwing the Safety Catcher to the machine.
- ⑪ The surface of the housing parts is primed black, the front sides are treated with corrosion protection wax.