

Technical Data Sheet TI-A11 Safety Catchers series KR (with DGUV approval)

Load direction compressive (to mounting surface)

General information, particularly regarding purpose, function, choosing the right type, attachment and control is provided in "Technical Information TI-A10".
Further important practical advice is given in "Operating Manual BA-A11".

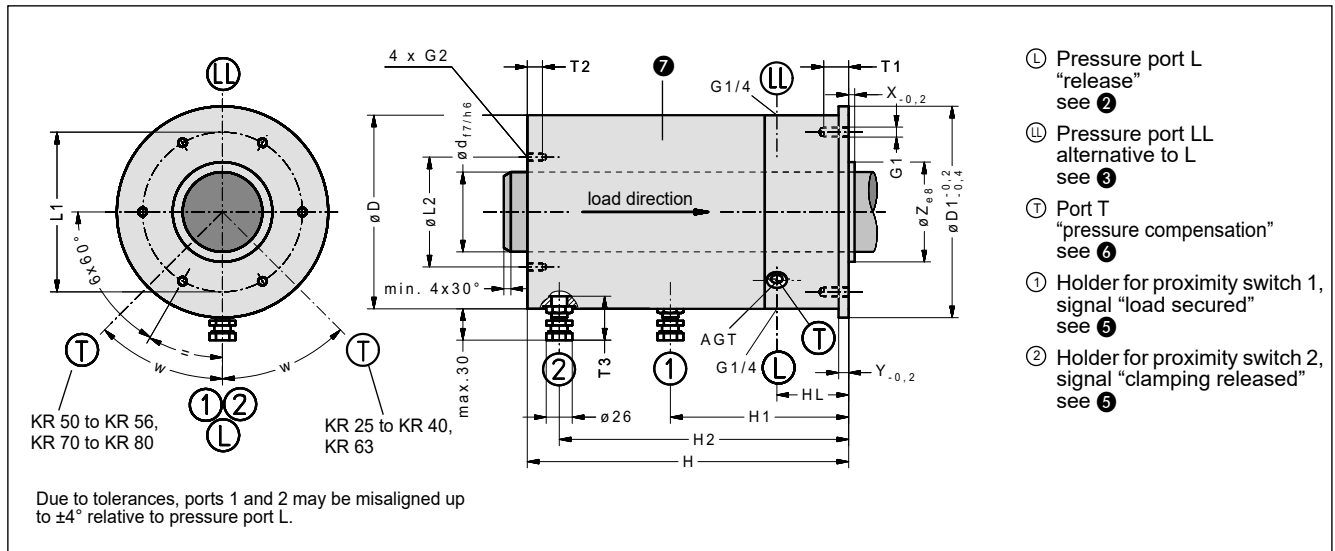


Fig. 1: Dimensions of Safety Catcher KR (download CAD files from www.sitema.com)

Type	ID no.	d	M	D	D1	H	Y	Z	X	L1	G1	T1	L2	G2	T2	T3	V	AGT	HL	H1	H2	w	Wt.
	(order no.)	mm	kN	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	cm ³	mm	mm	mm	mm	mm	kg
KR 25	KR 025 30	25	10	71	81	152	5	40	3	56	M6	15	64	M5	12	32	3	G1/8	48	84	130	45°	4
KR 28	KR 028 30	28	15	82	92	169	5	45	3	65	M8	15	73	M5	12	32	4	G1/8	50	88	145	45°	6
KR 40	KR 040 30	40	33	106	123	211	8	52	3	80	M8	20	56	M6	12	34	5	G1/4	62	167	125	45°	13
KR 50	KR 050 30	50	52	125	142	264	8	65	3	110	M10	25	66	M6	12	45	10	G1/4	64	119	160	30°	20
KR 56	KR 056 30	56	67	140	156	262	8	70	3	115	M10	25	75	M6	12	45	11	G1/4	72	122	166	30°	24
KR 63	KR 063 30	63	100	160	177	285	10	80	5	140	M10	25	85	M6	13	45	12	G1/4	66	125	164	30°	35
KR 70	KR 070 30	70	107	172	188	302	10	90	3	140	M10	25	100	M8	16	45	15	G1/4	73	129.5	166	30°	43
KR 80	KR 080 30	80	133	194	212	322	10	100	3	160	M10	25	110	M8	16	45	16	G1/4	72	128	176	30°	57

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-A20". 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 filling / 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 25 and KR 28: M8 x 1 with a nominal switching distance of 1.5 mm).

The dimension T3 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 and are pre-adjusted when delivered from the factory. The switches only need to be inserted to the stop and then clamped.

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 pressureless hose instead of the filter must be installed to connect the Safety Catcher KR 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.

Technical Data Sheet TI-A11 Safety Catchers series K (with DGUV approval)

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

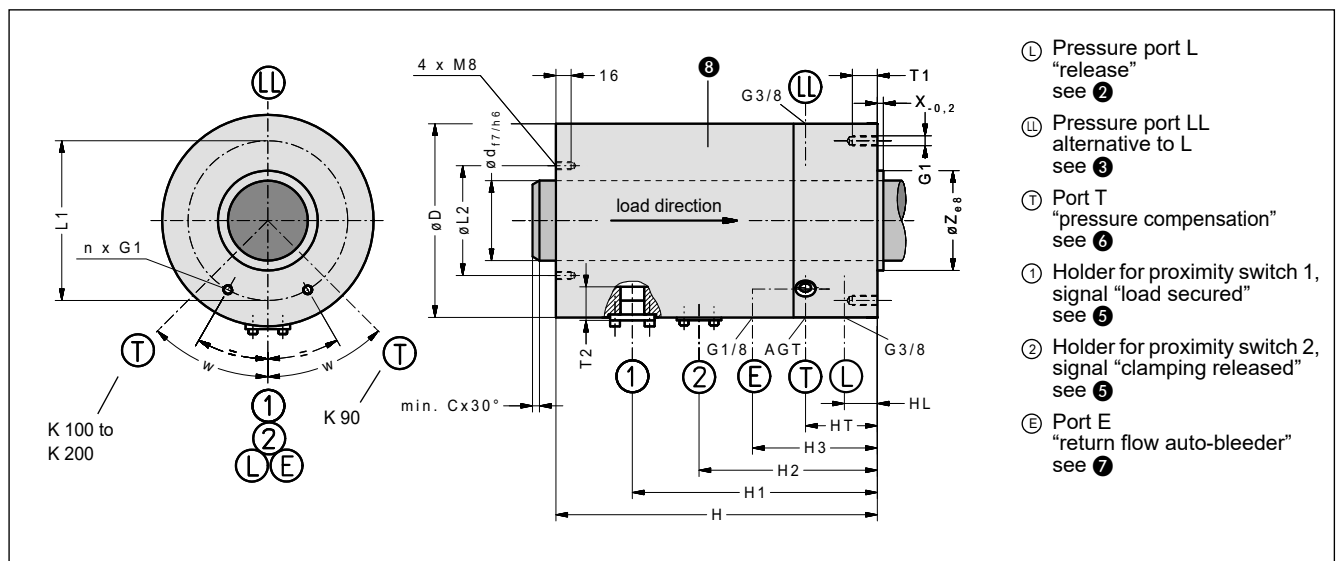


Fig. 2: Dimensions of Safety Catcher K (download CAD files from www.sitema.com)

Type	ID no.	d	C	M	D	H	Z	X	L1	n	G1	T1	L2	T2	V	AGT	HL	HT	H1	H2	H3	w	Wt.
	(order no.)	mm	mm	kN	mm	mm	mm	mm	mm		mm	mm	mm	mm	cm ³	mm	mm	mm	mm	mm	mm	kg	
K 90	K 090 30	90	5	160	218	284	110	3	170	6	M12	25	125	35	18	G1/8	20	47	188	138	105	30°	63
K 100	K 100 30	100	5	220	240	310	120	3	160	6	M12	25	135	34	18	G1/4	22	28	230	180	105	40°	83
K 110	K 110 30	110	5	270	240	335	130	4	200	4	M16	30	148	34	24	G1/4	24	38	192	142	105	57.5°	90
K 125	K 125 30	125	5	330	270	356	150	4	220	4	M16	30	160	37	24	G1/4	22	33	208	158	100	55°	118
K 140	K 140 30	140	5	450	320	390	170	5	250	4	M16	30	180	35	24	G1/4	22	35	233	183	102	30°	184
K 160	K 160 30	160	5	700	360	505	190	5	300	4	M16	30	210	52	36	G1/4	25	37	138	88	102	60°	302
K 180	K 180 30	180	5	750	410	460	220	6	330	4	M20	40	226	65	36	G1/4	19	52	335	285	111	19°	360
K 200	K 200 30	200	7	850	448	533	240	6	340	8	M20	40	252	67	36	G1/4	19	40	334	279	111	33°	500

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-A20". The admissible operating pressure is 250 bar.

③ As supplied, pressure port LL is plugged by a plug screw. It may be used as an alternative to pressure port L and is useful for filling / 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 proximity switches are not included in the standard scope of delivery but are available as accessories.

The dimension T2 indicates how deep the proximity switch immerses in the Safety Catcher measured from the holder's top.

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 pressureless hose instead of the filter must be installed to connect the Safety Catcher KR with clean atmosphere (e.g. a clean pressureless container).

⑦ 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").

⑧ The surface of the housing parts is primed black, the front sides are treated with corrosion protection wax.