

Technical Data Sheet TI-B11 Safety Brakes series KSP (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-B10". Further important practical advice is given in "Operating Manual BA-B10".

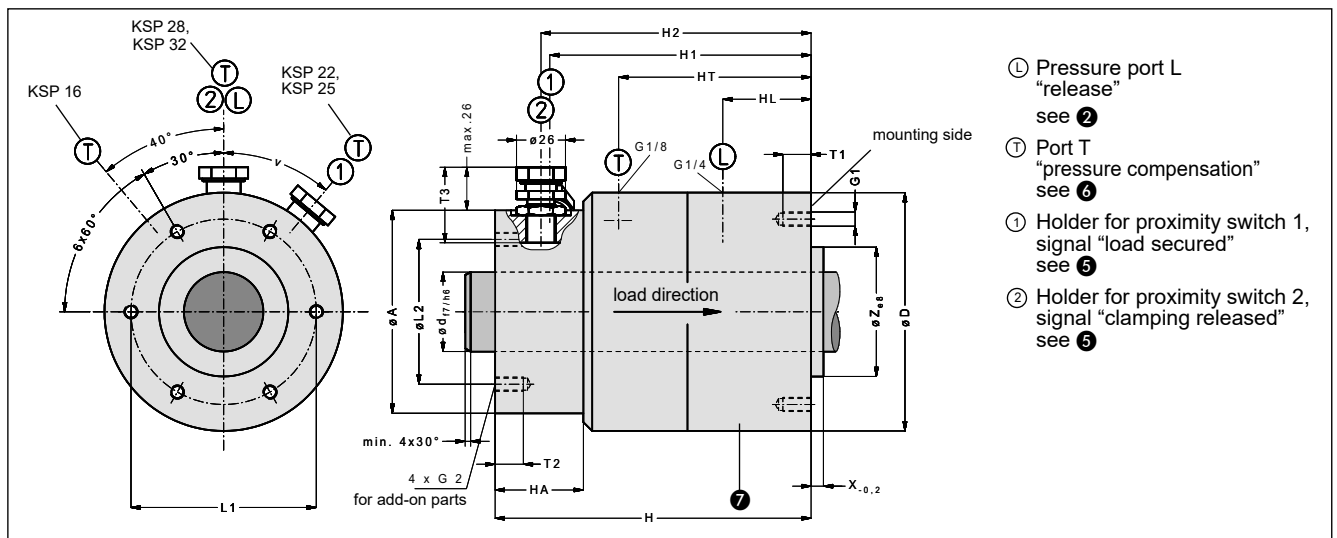


Fig. 1: Dimensions of Safety Brake KSP (download CAD files from www.sitema.com)

Type	ID. no.	d	M	F6	H	D	Z	X	A	HA	w	L1	G1	T1	L2	G2	T2	T3	V	HL	HT	H1	H2	Wt.
	(order no.)	mm	kN	kN	mm	mm	mm	mm	mm	mm		mm		mm	mm		mm	mm	cm ³	mm	mm	mm	mm	kg
KSP 16	KSP 016 01	16	2.5	2.5	114	96	35	5	78	36	50°	55	M6	15	65	M6	10	34	10	17	91	91	88	2.5
KSP 22	KSP 022 01	22	5	3.5	137	120	40	6	104	37	40°	60	M6	15	80	M6	10	45	15	25	87	115	120	5
KSP 22	KSP 022 02	22	10	3.5	137	120	40	6	104	37	40°	60	M6	15	80	M6	10	45	15	25	87	115	120	5
KSP 25	KSP 025 01	25	15	6.5	142	140	45	6	114	37	40°	70	M8	20	90	M6	10	45	30	24	77	120.5	125.5	7
KSP 28	KSP 028 02	28	20	11	173	184	50	6	118	40	30°	80	M8	20	90	M6	10	45	40	43	104	148	153	13
KSP 32	KSP 032 01	32	30	15	204	216	55	6	123	44	30°	130	M10	20	105	M6	10	45	95	41	110	178	183	23

Subject to modification without prior notice

1 M is the admissible load the mass to be secured exerts on the Safety Brake. 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 3.5 bar. In case a spring base is installed, the required pressure for releasing without lifting is 4.5 bar, see "Technical Data Sheet TI-B20". The admissible operating pressure is 8 bar.

3 The Safety Brake has the advantage that it does not release under load. The Safety Brake can normally be released in this case only if release pressure is applied and the load is simultaneously lifted, i.e. if the load has already been transferred safely elsewhere. To ensure this safety advantage, the load must have a minimum value during operation. This minimum value depends on the operating pressure which is applied. At 6 bar, the minimum value is F6. If the load in the application is less than F6 (at 6 bar), the clamping can be released by only applying pressure and not lifting the load.

For other pressure levels, please contact SITEMA.

4 Pneumatic operating volume

5 Proximity switch holders are provided for standard inductive proximity switches (M12 x 1, nominal switching distance of 2 mm, flush mountable, NO (normally open)).

The dimension T3 indicates how deep the proximity switch immerses in the Safety Brakes KSP 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 Brake with clean atmosphere (e.g. a clean pressureless container).

7 The aluminum surfaces of the housing parts are anodized.