

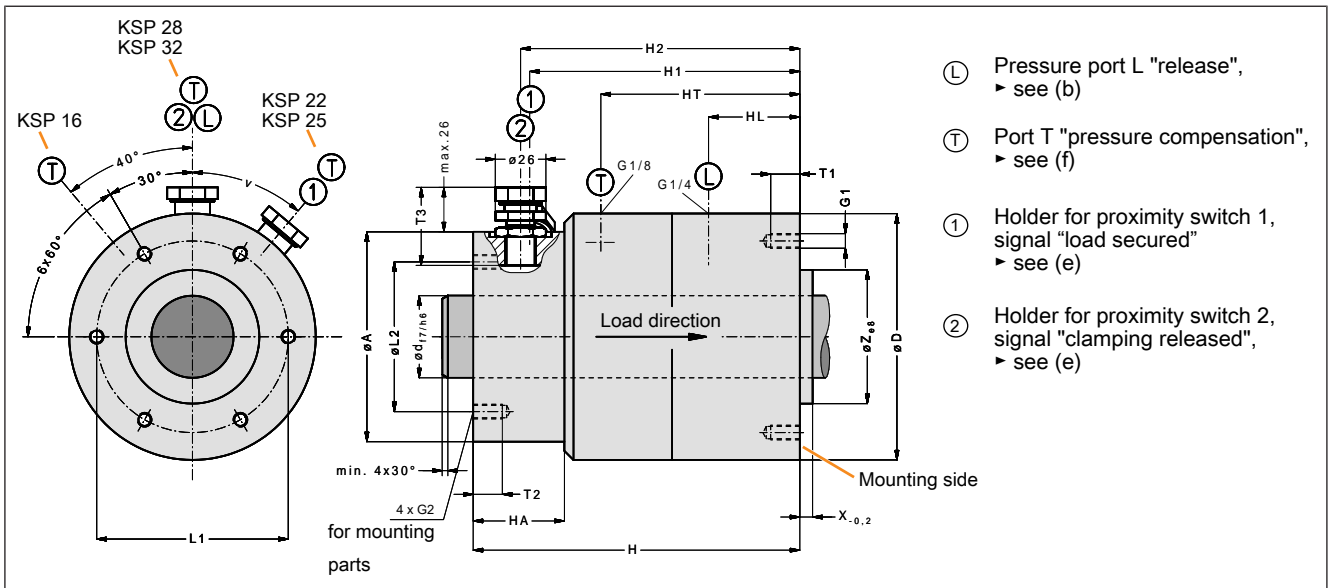
# Technical Data Sheet TI-B11

## Safety Brakes KSP series (with DGV Test Certificate)

Compressive load direction (to mounting surface)

For general information, particularly regarding purpose, function, choosing the right type, attachment, and control, see "Technical Information TI-B10".

Further important information can be found in the "Operating Manual BA-B10".



- Ⓐ Pressure port L "release", ▶ see (b)
- Ⓣ Port T "pressure compensation", ▶ see (f)
- ① Holder for proximity switch 1, signal "load secured" ▶ see (e)
- ② Holder for proximity switch 2, signal "clamping released", ▶ see (e)

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

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

Subject to modification without prior notice

(a) M is the admissible load the mass to be secured exerts on the Safety Brake. The holding (braking) force with a dry or hydraulic-oil wetted rod is at least 2 x M but will not exceed 3.5 x M.

(b) The necessary pressure to keep the clamping released is 3.5 bar (if a spring base is installed, the required pressure for releasing without lifting is 4.5 bar). The permissible operating pressure is 8 bar.

(c) The Safety Brake has the advantage that it cannot be released under load. The Safety Brake can 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 taken over elsewhere. To ensure this safety advantage, the load must have a minimum value during operation. This minimum value depends on the pressure 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. If you need information about other pressure levels and loads, please contact SITEMA.

(d) Pneumatic operating volume

(e) 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 T3 indicates how deep the proximity switch immerses into the housing measured from the holder's top. For easier mounting, the proximity switch holders have a depth stop and are preset to the correct depth at delivery. The proximity 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.

(f) Port T compensates internal volume changes during switching. At delivery, the port is plugged with an air filter which, in a dry and clean factory environment, offers sufficient protection against dust etc. If moisture or aggressive media can be sucked up, replace the filter by an unpressurized line which leads to a clean atmosphere (e.g. a clean, dry, and unpressurized vessel).

(g) The aluminum surfaces of the housing parts are anodized.