



Length Calculation – protective tube SRO, translating version S

(The length calculation is identical for Z and GSZ)

GSZ-2 to Z-150:		GSZ-2	Z-5	Z-10	Z-25	Z-35	Z-50	Z-50/Tr50	Z-100	Z-150
Tr basic length ¹⁾	Tr	47	46	49	53	57	62	62	82	87
KGT basic length ¹⁾	KGT	–	16x05 56	25x05 59	32x05 63	–	40x05 72	–	50x10 82	63x10 87
		–	16x10 76	25x10 79	32x10 73	–	40x10 72	–	50x20 122	63x20 127
		–	–	25x25 149	32x20 103	–	40x20 102	–	50x40 202	63x40 207
		–	–	25x50 279	32x40 173	–	40x40 162	–	–	63x60 287
Escape/rotation protection AS/VS	Tr/KGT	15	15	20	20	30	30	30	30	30
Limit switch ES ³⁾	Tr	70	73	72	72	86	82	82	62	62
ES ³⁾ and pivot bearing plate KAR	Tr	92	94	92	96	112	107	107	107	112
Limit switch ES ³⁾	KGT	–	16x05 63	25x05 62	32x05 62	–	40x05 72	–	50x10 62	63x10 62
		–	16x10 43	25x10 42	32x10 52	–	40x10 72	–	50x20 30	63x20 30
		–	–	25x25 20	32x20 22	–	40x20 42	–	50x40 30	63x40 30
		–	–	25x50 20	32x40 20	–	40x40 30	–	–	63x60 30
ES ³⁾ and pivot bearing plate KAR	KGT	–	16x05 84	25x05 82	32x05 86	–	40x05 97	–	50x10 107	63x10 112
		–	16x10 64	25x10 72	32x10 76	–	40x10 97	–	50x20 70	63x20 75
		–	–	25x25 20	32x20 46	–	40x20 67	–	50x40 30	63x40 35
		–	–	25x50 20	32x40 20	–	40x40 30	–	–	63x60 30

Z-250 to Z-1000 ⁴⁾ :		Z-250	Z-350	Z-500	Z-750	Z-1000
Tr basic length ¹⁾	Tr	92	107	157	157	157
KGT basic length ¹⁾	KGT	80x10 92	100x20 147	125x25 177	140x25 177	160x25 177
		80x20 132	100x40 227	125x40 237	140x40 237	160x40 237
		80x40 212	100x60 307	125x60 317	140x60 317	160x60 317
		80x60 292	100x80 387	125x80 397	140x80 397	160x80 397
Escape/rotation protection AS/VS	Tr/KGT	30	35	40	40	40
Limit switch ES ³⁾	Tr	58	59	40	48	48
Limit switch ES ³⁾	KGT	80x10 58	100x20 35	125x25 40	140x25 40	160x25 40
		80x20 30	100x40 35	125x40 40	140x40 40	160x40 40
		80x40 30	100x60 35	125x60 40	140x60 40	160x60 40
		80x60 30	100x80 35	125x80 40	140x80 40	160x80 40

CAUTION: minimum stroke with limit switch ES²⁾:

GSZ-2 to Z-150:	GSZ-2	Z-5	Z-10	Z-25	Z-35	Z-50	Z-50/Tr50	Z-100	Z-150
minimum stroke with limit switch ES	53	50	51	51	41	42	42	42	42
minimum stroke with ES and lubrication strip SL	123	120	121	121	111	112	112	112	112

Z-250 to Z-1000:	Z-250	Z-350	Z-500	Z-750	Z-1000
minimum stroke with limit switch ES	47	42	46	46	46
minimum stroke with ES and lubrication strip SL	117	112	116	116	116

- 1) Basic length of the protective tube without a cap.
The cap height is 5 mm.
- 2) If a shorter stroke than specified is required, the limit switches and lubrication strip may be fitted on different faces.
- 3) Limit switches ES are always used in combination with rotation protection VS (VS is included in the extension).
- 4) Z-250 - Z-1000:
 - only screw, or screw with escape protection AS (round protective tube)
 - with rotation protection VS or VS + limit switch ES (square protective tube)