

Guide unit GH2, Series CG1

- Ø 32-100 mm
- Linear ball bearing
- For standard cylinders ISO 15552



Bearing type

Linear ball bearing

Ambient temperature min./max.

-20 ... 80 °C

Technical data

Suitable piston Ø	32 mm	40 mm	50 mm	63 mm	80 mm	100 mm
Stroke 50	0821401320	0821401330	0821401340	0821401380	-	-
100	0821401321	0821401331	0821401341	0821401381	0821401360	0821401370
200	0821401322	0821401332	0821401342	0821401382	0821401361	0821401371
320	0821401323	0821401333	0821401343	0821401383	0821401362	0821401372
500	0821401324	0821401334	0821401344	0821401384	0821401363	0821401373
600	0821401325	0821401335	0821401345	0821401385	0821401364	0821401374
800	0821401326	0821401336	0821401346	0821401386	0821401365	0821401375
1000	0821401327	0821401337	0821401347	0821401387	0821401366	0821401376
1200	0821401328	0821401338	0821401348	0821401388	0821401367	0821401377

For use with hybrid inch cylinders with metric piston rod thread

Technical data

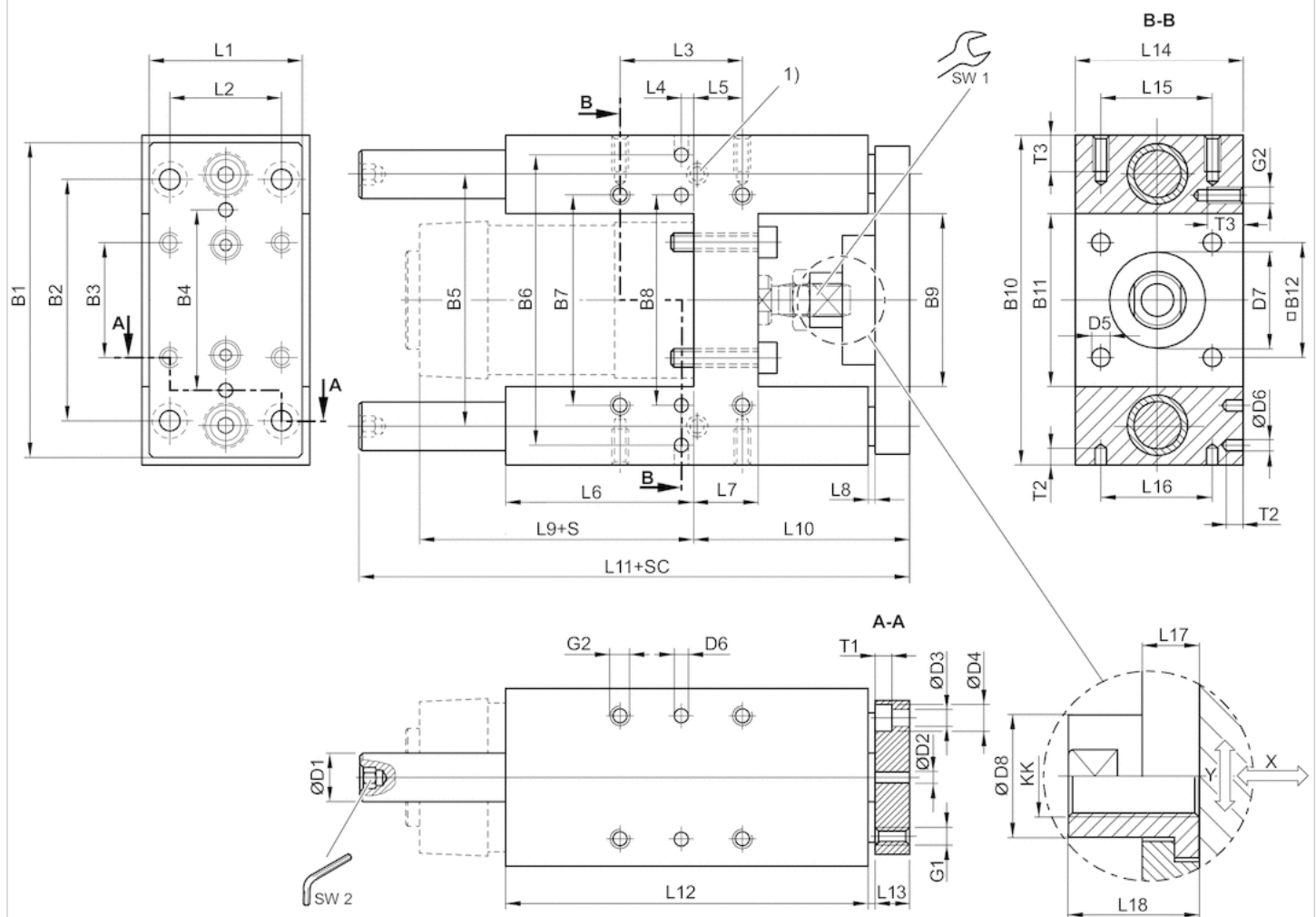
Suitable piston Ø	32 mm	40 mm	50 mm	63 mm	80 mm	100 mm
Weight 0 mm stroke	1,3 kg	2,3 kg	3,7 kg	4,7 kg	8,8 kg	11,1 kg
+10 mm stroke	0,009 kg	0,016 kg	0,025 kg	0,025 kg	0,039 kg	0,039 kg

Technical information

Material	
Bearing housings	Aluminum, colorless anodized
Bearing type	Steel
Carrying plate	Aluminum, colorless anodized
Flexible coupling in carrying plate	Stainless steel
Guide rods	Hardened heat-treated steel

Dimensions

Ø 32 ... 100 mm



1) Lube nipple

S = stroke

SC = cylinder stroke

X = max. play (axial)

Y = min. play (radial)

Hexagon in guide rod

Dimensions

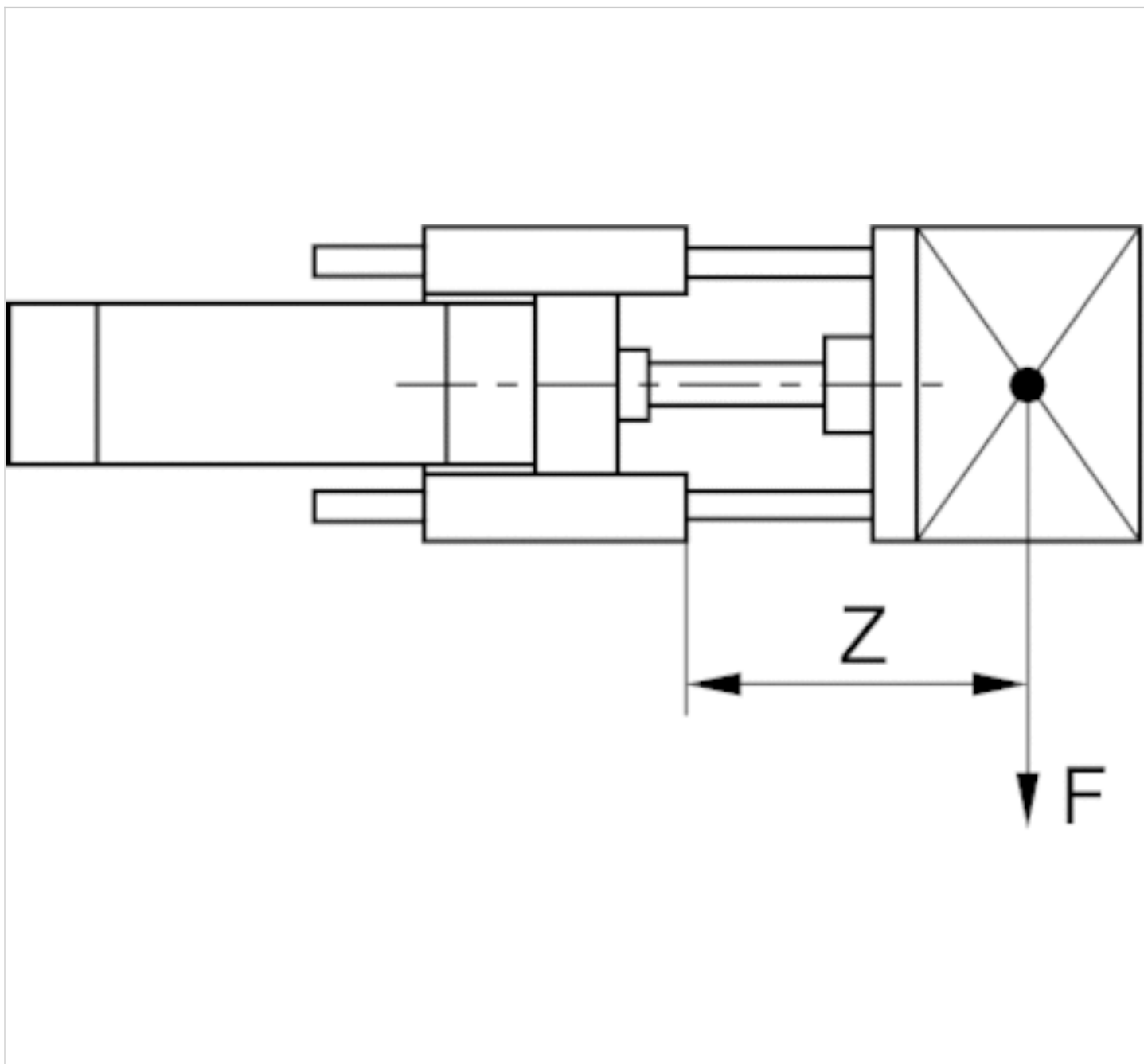
Piston Ø	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	D1	D2 H7	D3	D4	D5	D6 H7
32 mm	90	78	32.5	50	74	81	61	61	50.2	97	50.2	32.5	12	6	6.6	11	6.6	6
40 mm	110	84	38	54	87	99	69	69	58.2	115	58.2	38	16	6	6.6	11	6.6	6
50 mm	130	100	46.5	72	104	119	85	85	70.2	137	70.2	46.5	20	6	9	15	9	6
63 mm	145	105	56.5	82	119	132	100	100	85.2	152	85.2	56.5	20	6	9	15	9	6
80 mm	180	130	72	106	148	166	130	130	105.4	189	105.4	72	25	6	11	18	11	6
100 mm	200	150	89	131	172	190	150	150	130.4	213	130.4	89	25	6	11	18	11	6

Piston Ø	D7 M8	D8	G1	G2	KK	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12
32 mm	30	14.5	M6	M6	M10x1,25	45	32.5	32.5	12	4.25	76	17	3	94	64	177.5	125
40 mm	35	18	M6	M6	M12x1,25	54	38	38	8	11	81	21	3	105	74	192.5	140
50 mm	40	24	M8	M8	M16x1,5	63	46.5	46.5	4.5	18.75	79	26	3	106	89	237	150
63 mm	45	24	M8	M8	M16x1,5	80	56.5	56.5	13	15.25	111	26	3	121	89	237	182
80 mm	45	30	M10	M10	M20x1,5	100	72	72	15	21	128	34	3	128	110	280	215
100 mm	55	30	M10	M10	M20x1,5	120	89	89	20	24.5	128	39	3	138	115	280	220

Piston Ø	L13	L14	L15	L16	L17	L18	T1	T2	T3	SW1	SW2
32 mm	12	50	32.5	32.5	6	17	6.5	10	15	13	5
40 mm	12	58	38	38	14	22	6.5	10	15	15	6
50 mm	15	70	46.5	46.5	14	26	9	10	16	22	6
63 mm	15	85	56.5	56.5	14	26	9	10	16	22	6
80 mm	20	105	72	72	14	32	11	10	20	27	8
100 mm	20	130	89	89	14	32	11	10	20	27	8

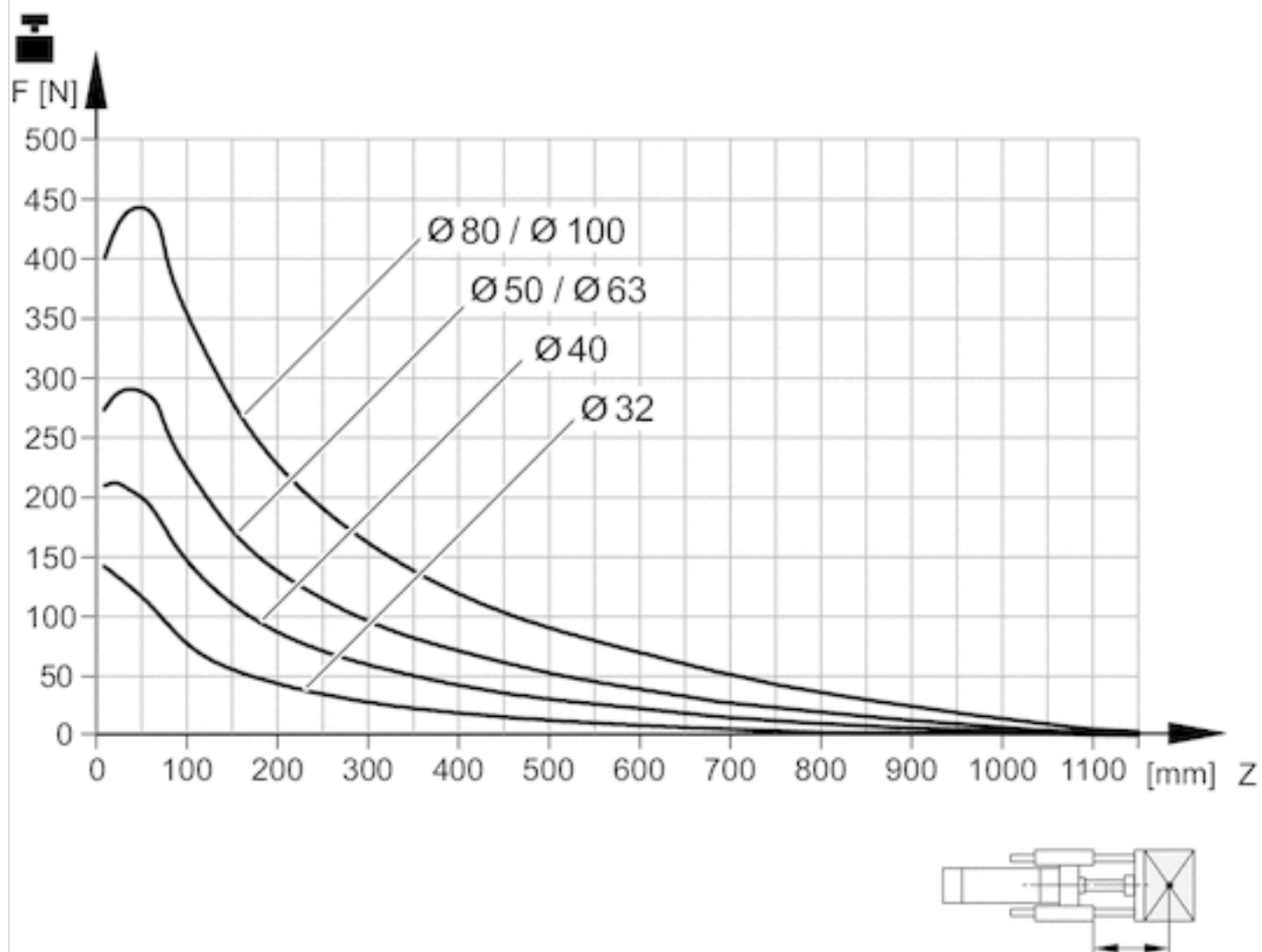
Diagrams

Useful load

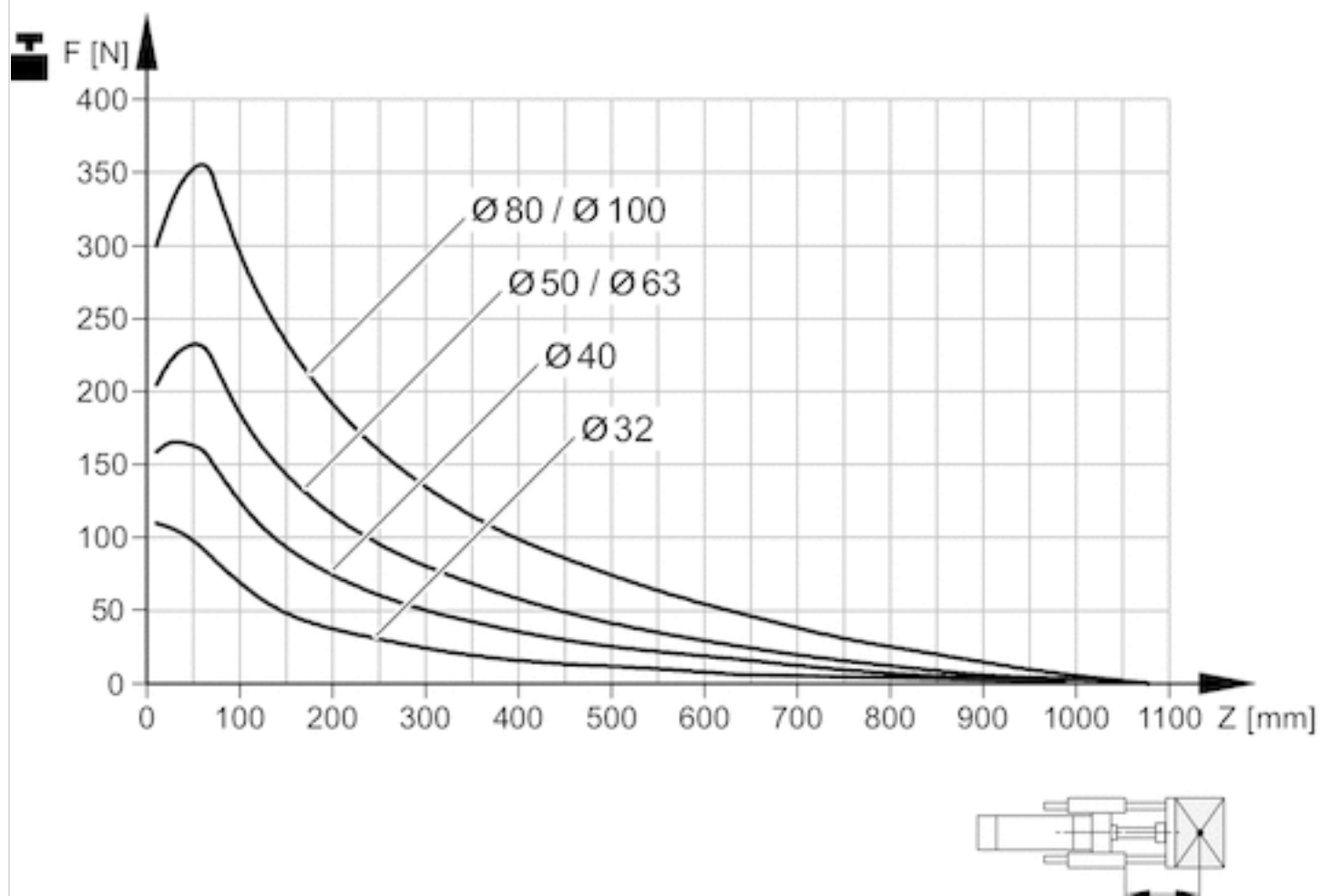


F = Useful load, Z = Projection

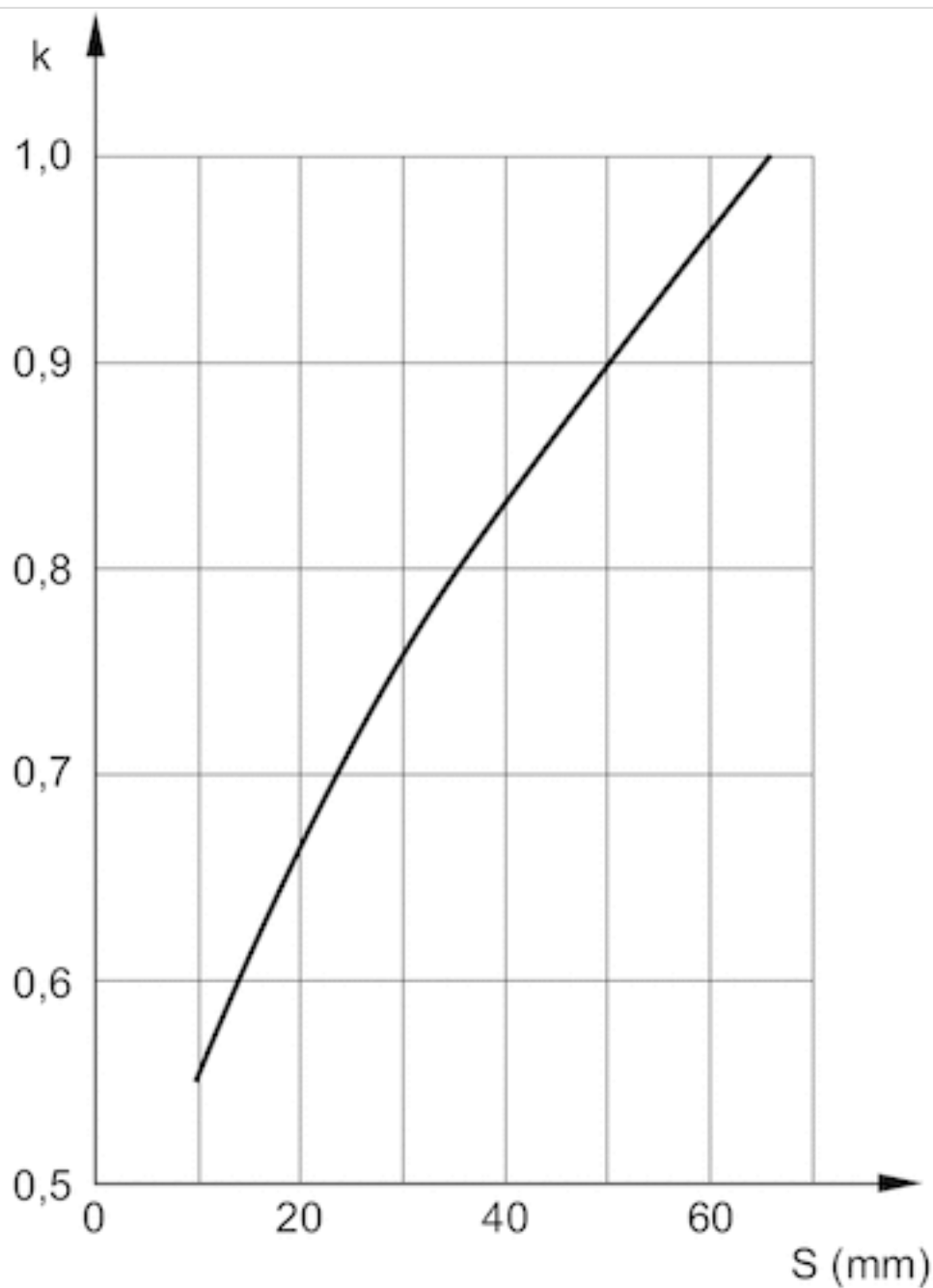
Useful load

Service life 2×10^6 m F = Useful load, Z = Projection

Useful load

Service life 5×10^6 m F = Useful load, Z = Projection

Reduction of useful load for short-stroke



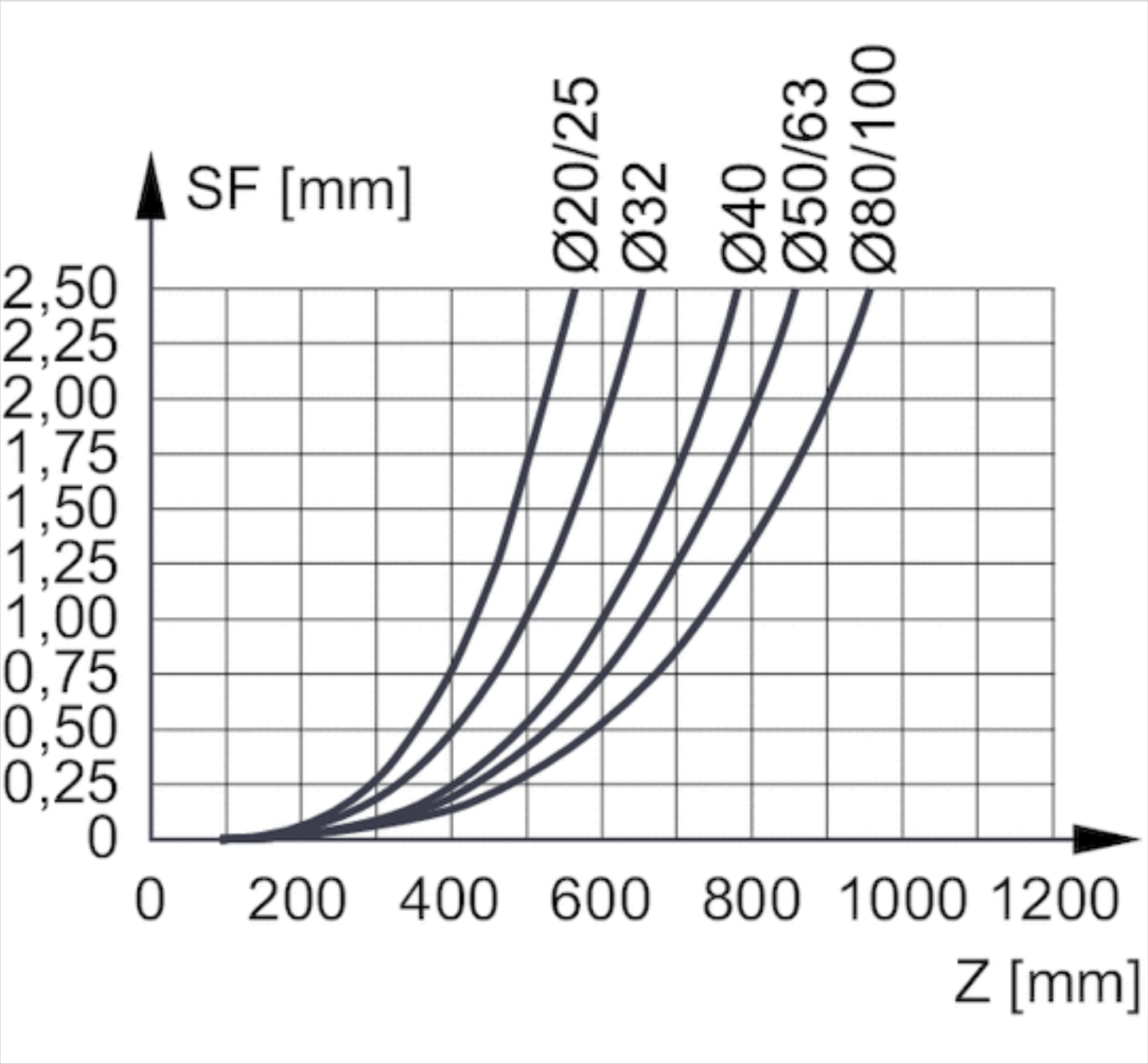
S = stroke

k=correction factor: normal=1, shock loaded=2

With a short stroke, the useful load figures determined from the diagram must be multiplied by the correction factor k.

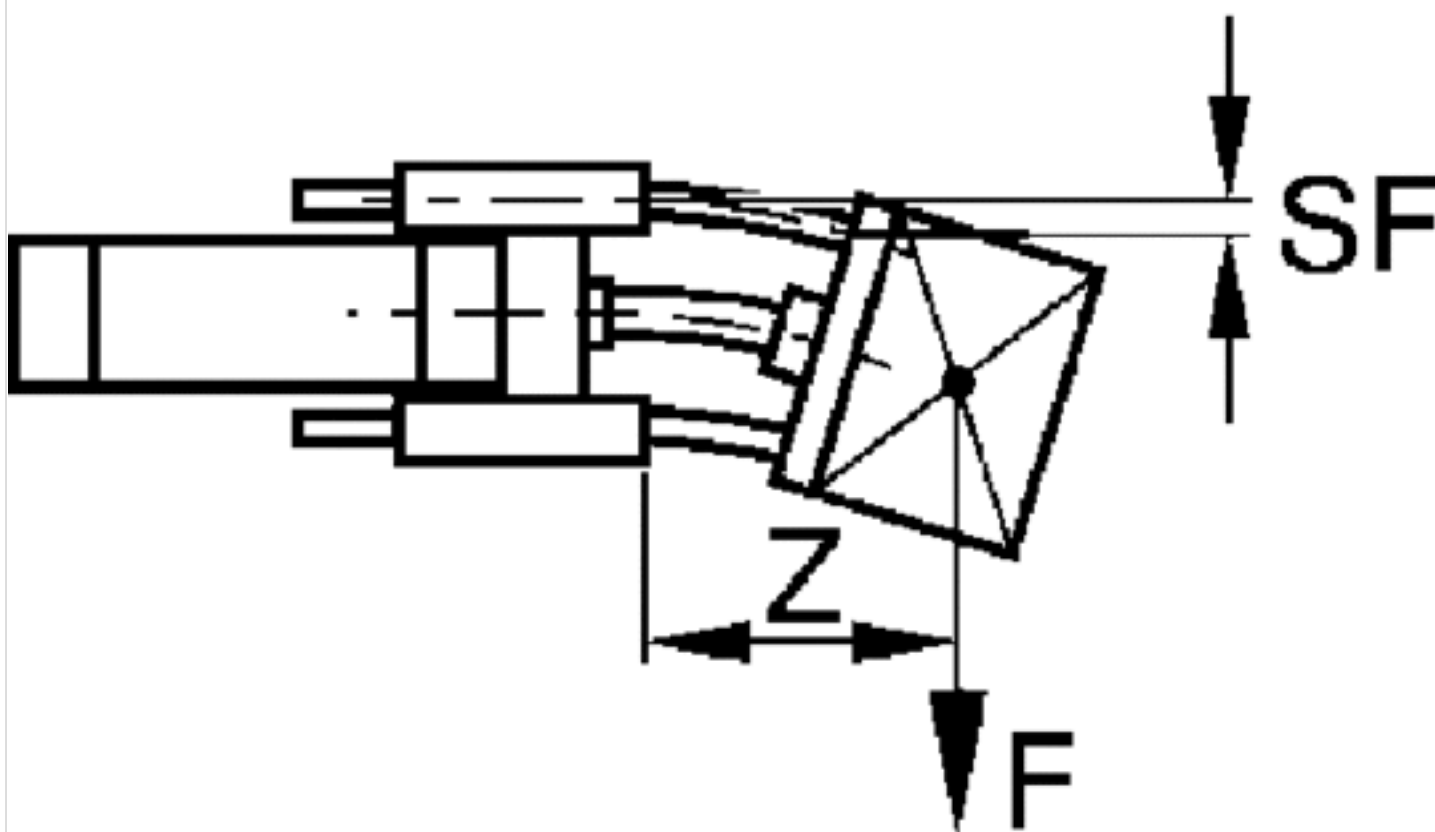
These short-stroke adjustments are already included in the load diagram for a displacement of up to 60 mm.

Bending due to own load



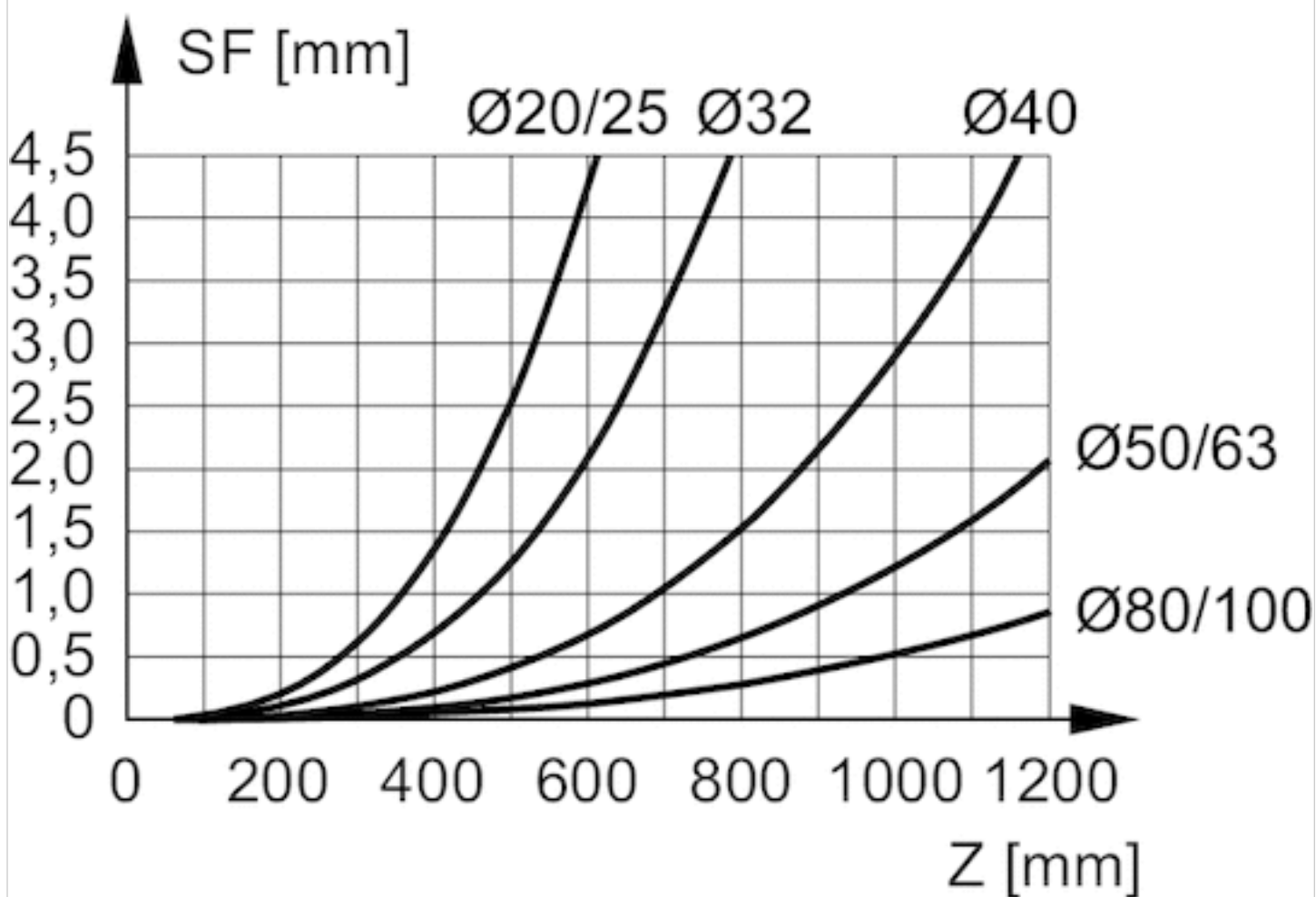
F = useful load (at the load center), SF = bending, Z = projection

Bending due to 10 N load



F = useful load (at the load center), SF = bending, Z = projection

Bending due to 10 N load



F = useful load (at the load center), SF = bending, Z = projection

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