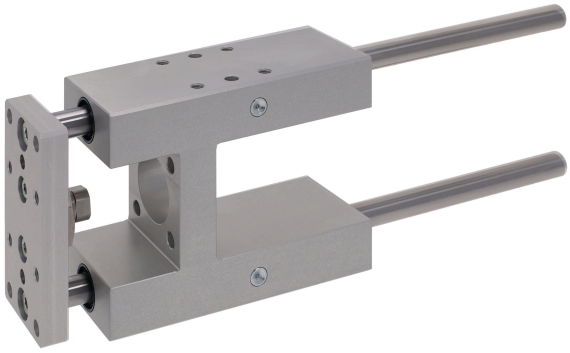
Guide unit GH2, Series CG1

0821401341

AVENTICS Guide units



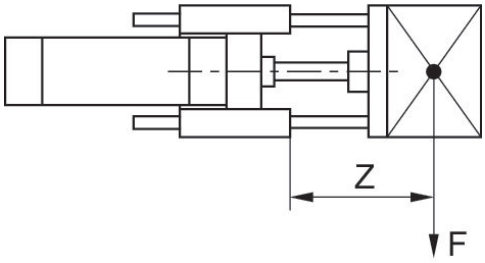
Technical data

Industry	Industrial
Piston Ø	50 mm
Stroke	100 mm
Bearing type	Linear ball bearing
For standard cylinders	ISO 15552
Min. ambient temperature	-20 °C
Max. ambient temperature	80 °C
Weight 0 mm stroke	3.7 kg
Weight +10 mm stroke	0.025 kg

Material

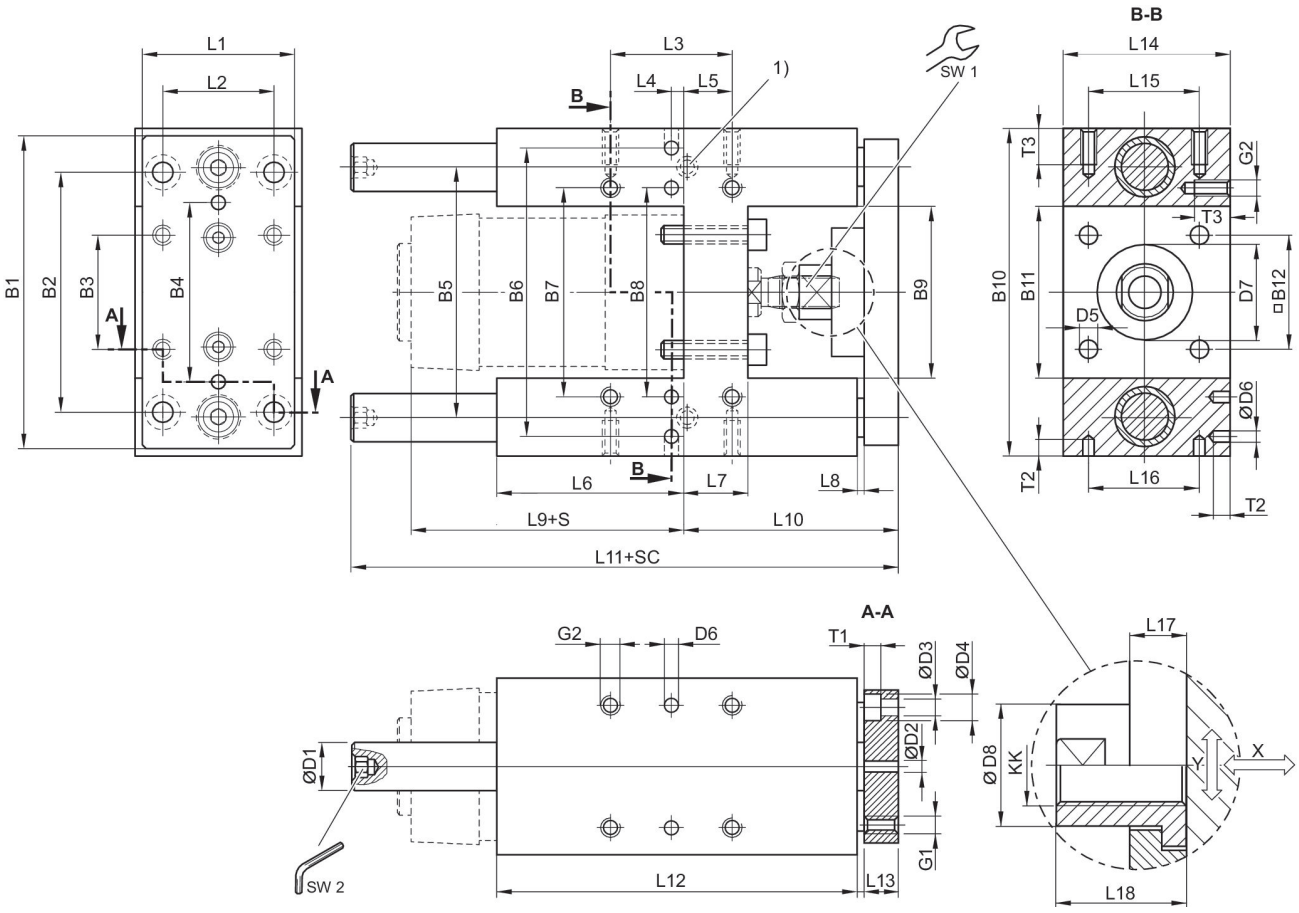
Bearing housings	Aluminum
Surface bearing housing	colorless anodized
Bearing type	Steel, chrome-plated
Carrying plate	Aluminum
Surface carrying plate	colorless anodized
Material flexible coupling in carrying plate	Stainless Steel
Material guide rods	Hardened heat-treated steel
Part No.	0821401341

Useful load



F = Useful load, Z = Projection

Dimensions



1) Lube nipple
S = stroke
SC = cylinder stroke
X = max. play (axial)
Y = min. play (radial)
Hexagon in guide rod

Piston Ø	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
32	90	78	32.5	50	74	81	61	61	50.2	97
40	110	84	38	54	87	99	69	69	58.2	115
50	130	100	46.5	72	104	119	85	85	70.2	137
63	145	105	56.5	82	119	132	100	100	85.2	152
80	180	130	72	106	148	166	130	130	105.4	189
100	200	150	89	131	172	190	150	150	130.4	213

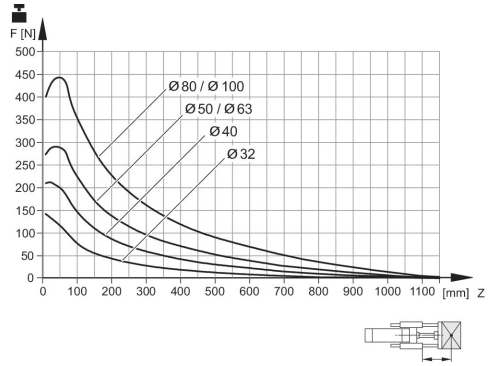
Piston Ø	B11	B12	D1	D2 H7	D3	D4	D5	D6 H7	D7 M8	D8
32	50.2	32.5	12	6	6.6	11	6.6	6	30	14.5
40	58.2	38	16	6	6.6	11	6.6	6	35	18
50	70.2	46.5	20	6	9	15	9	6	40	24
63	85.2	56.5	20	6	9	15	9	6	45	24
80	105.4	72	25	6	11	18	11	6	45	30
100	130.4	89	25	6	11	18	11	6	55	30

Piston Ø	G1	G2	KK	L1	L2	L3	L4	L5	L6	L7
32	M6	M6	M10x1,25	45	32.5	32.5	12	4.25	76	17
40	M6	M6	M12x1,25	54	38	38	8	11	81	21
50	M8	M8	M16x1,5	63	46.5	46.5	4.5	18.75	79	26
63	M8	M8	M16x1,5	80	56.5	56.5	13	15.25	111	26
80	M10	M10	M20x1,5	100	72	72	15	21	128	34
100	M10	M10	M20x1,5	120	89	89	20	24.5	128	39

Piston Ø	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17
32	3	94	64	177.5	125	12	50	32.5	32.5	6
40	3	105	74	192.5	140	12	58	38	38	14
50	3	106	89	237	150	15	70	46.5	46.5	14
63	3	121	89	237	182	15	85	56.5	56.5	14
80	3	128	110	280	215	20	105	72	72	14
100	3	138	115	280	220	20	130	89	89	14

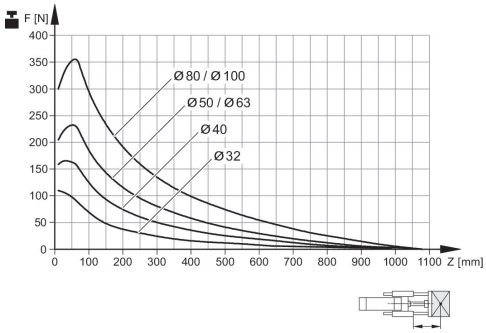
Piston Ø	L18	T1	T2	T3	SW1	SW2
32	17	6.5	10	15	13	5
40	22	6.5	10	15	15	6
50	26	9	10	16	22	6
63	26	9	10	16	22	6
80	32	11	10	20	27	8
100	32	11	10	20	27	8

Useful load



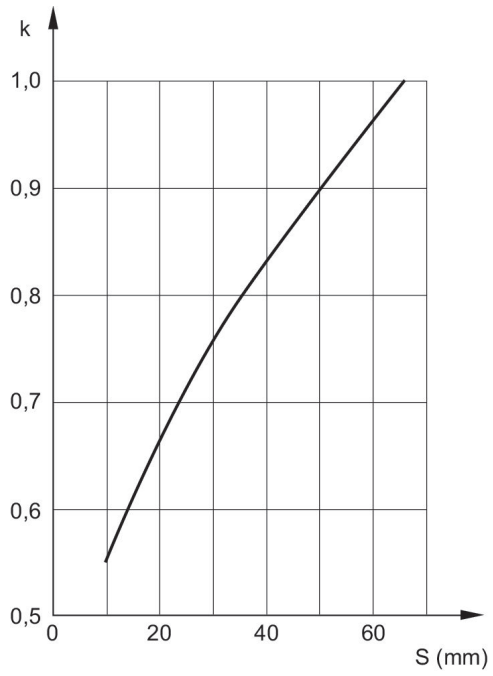
Service life 2x10⁶ m
F = Useful load, Z = Projection

Useful load



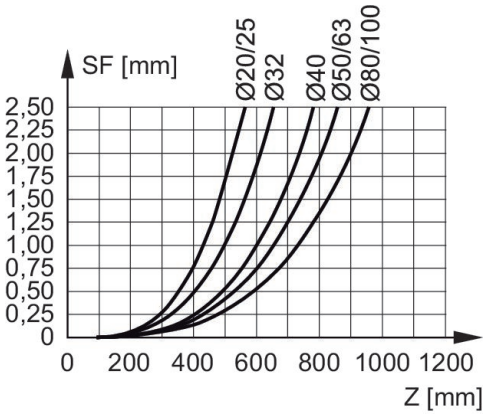
Service life 5x10⁶ m
F = Useful load, Z = Projection

Reduction of useful load for short-stroke



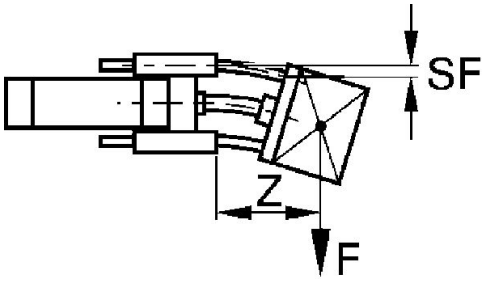
S = stroke
k=correction factor: normal=1, shock loaded=2 With a short stroke, the useful load figures determined from the diagram must be multiplied by the correction factor k. These short-stroke adjustments are already included in the load diagram for a displacement of up to 60 mm.

Bending due to own load



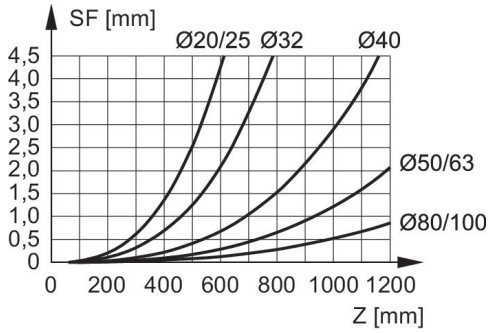
F = useful load (at the load center), SF = bending, Z = projection

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