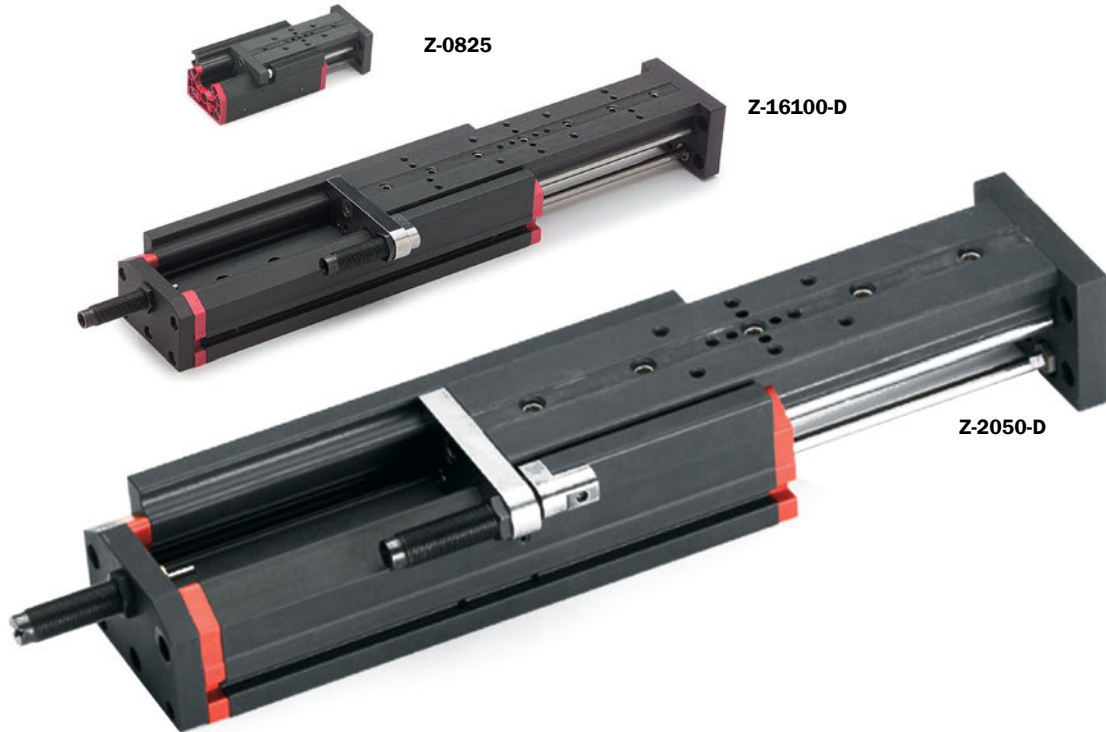


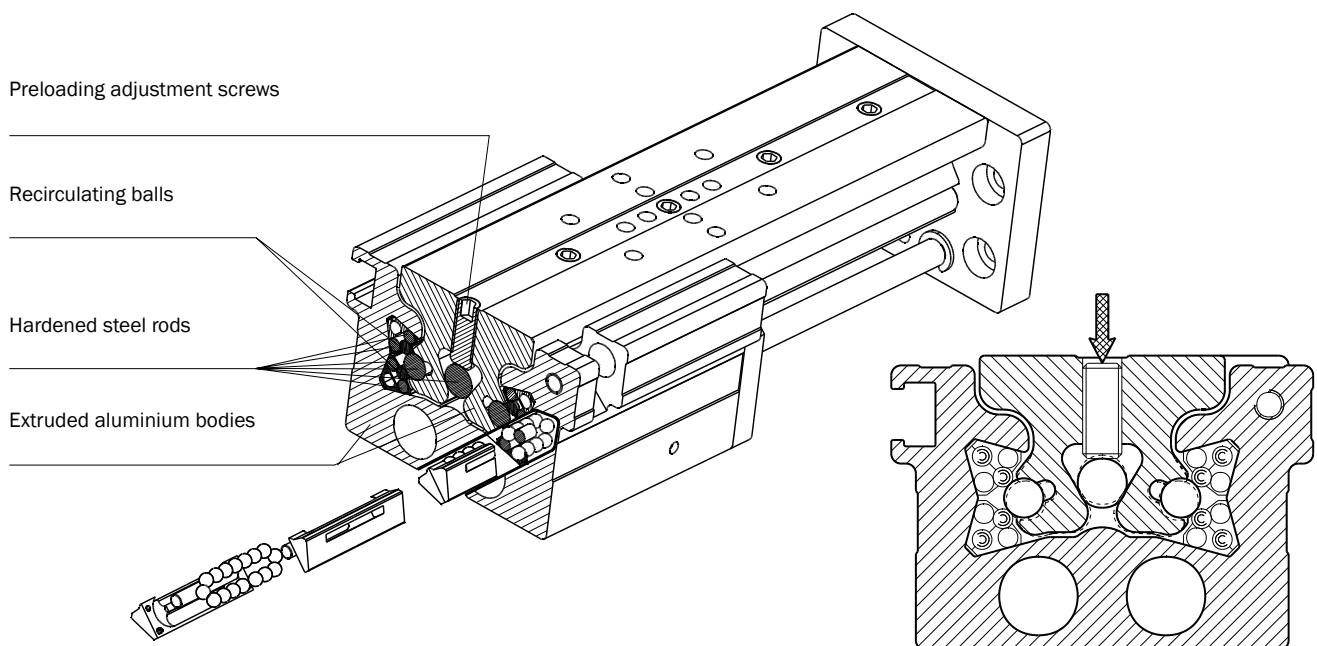
Pneumatic slides (series Z)

- Bore 2x8mm, 2x16 or 2x20mm.
- Stroke 25mm, 50mm, 100mm, 150mm and 200mm.
- With or without shock-absorbers.
- Double acting.
- Very favorable performance/price ratio.
- Optional magnetic sensors.



Adjustable recirculating ball-bearing system

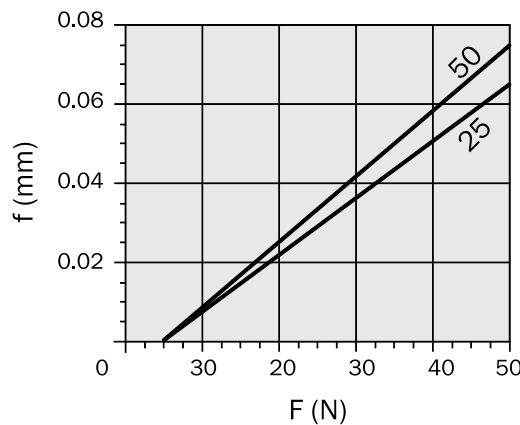
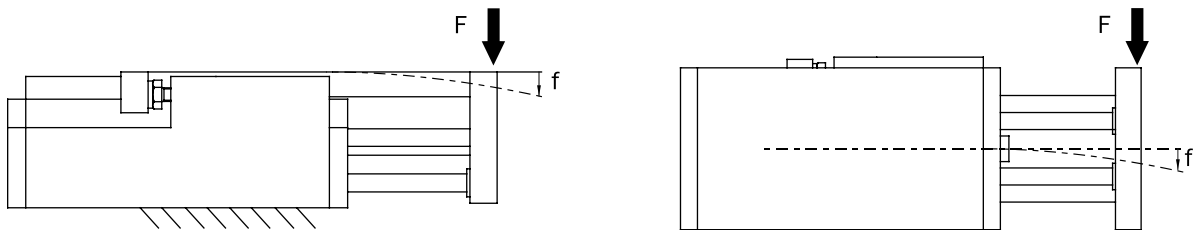
- Low weight as made from extruded aluminium profile.
- High stiffness thanks to the inserted hardened steel rods for guidance.
- Recirculating ball-bearing system provides wear resistance and extended performances.
- Possible adjustment of the preloading and taking up slack.



	Z-0825	Z-0825-D	Z-0850	Z-0850-D
Weight	230 g	270 g	320 g	360 g
Repetition accuracy	0.2 mm	0.02 mm	0.2 mm	0.02 mm
Minimum actuating time	0.054 s	0.100 s	0.080 s	0.130 s
Maximum working frequency	2 Hz	1 Hz	2 Hz	1 Hz
Air consumption per cycle	6 cm ³		11 cm ³	
Maximun total stroke	25 mm		50 mm	
Extension force at 6 bar	50 N			
Retraction force at 6 bar	37 N			
Medium	Compressed air in compliance with ISO 8573-1:2010 [7:4:4]			
Pressure range	2 ÷ 8 bar			
Temperature range	5 ÷ 60°C.			

Deflection

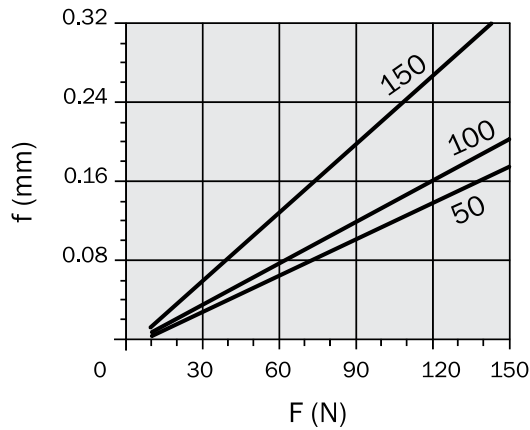
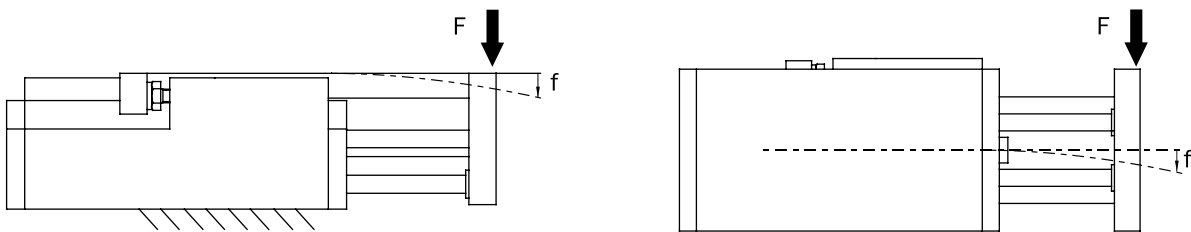
The graph shows the deflection *f* (mm) in two showed directions, as function of the force *F* (N) and the stroke of the slide.



	Z-1650	Z-1650-D	Z-16100	Z-16100-D	Z-16150	Z-16150-D
Weight	620 g	730 g	1010 g	1120 g	1340 g	1450 g
Repetition accuracy	0.2 mm	0.02 mm	0.2 mm	0.02 mm	0.2 mm	0.02 mm
Minimum actuating time	0.080 s	0.100 s	0.120 s	0.150 s	0.220 s	0.230 s
Maximum working frequency	2 Hz	1 Hz	2 Hz	1 Hz	1 Hz	1 Hz
Air consumption per cycle	44 cm ³		95 cm ³		141 cm ³	
Maximum total stroke	50 mm		100 mm		150 mm	
Extension force at 6 bar	200 N					
Retraction force at 6 bar	170 N					
Medium	Compressed air in compliance with ISO 8573-1:2010 [7:4:4]					
Pressure range	2 ÷ 8 bar					
Temperature range	5 ÷ 60°C.					

Deflection

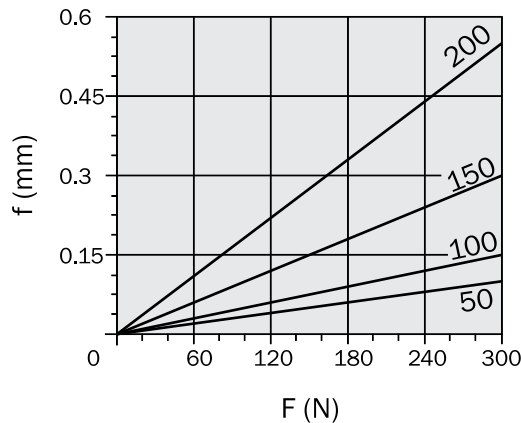
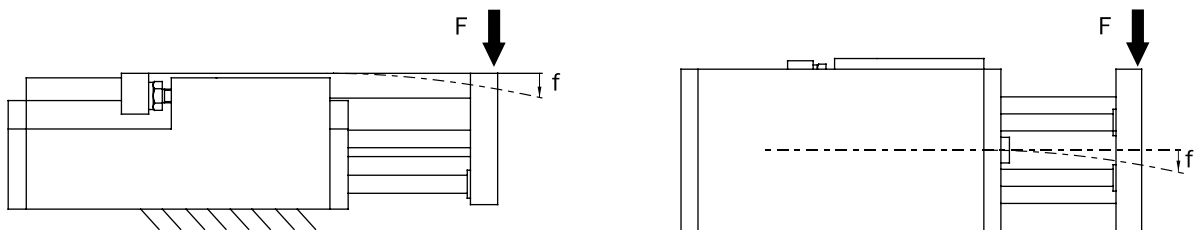
The graph shows the deflection f (mm) in two showed directions, as function of the force F (N) and the stroke of the slide.



	Z-2050-D	Z-20100-D	Z-20150-D	Z-20200-D
Weight	1300 g	1950 g	2500 g	3100 g
Repetition accuracy	0.02 mm	0.02 mm	0.02 mm	0.02 mm
Minimum actuating time	0.12 s	0.19 s	0.26 s	0.31 s
Maximum working frequency	1 Hz	1 Hz	1 Hz	1 Hz
Air consumption per cycle	76 cm ³	155 cm ³	227 cm ³	310 cm ³
Maximun total stroke	50 mm	100 mm	150 mm	200 mm
Extension force at 6 bar	330 N			
Retraction force at 6 bar	300 N			
Medium	Compressed air in compliance with ISO 8573-1:2010 [7:4:4]			
Pressure range	2 ÷ 8 bar			
Temperature range	5 ÷ 60°C.			

Deflection

The graph shows the deflection *f* (mm) in two showed directions, as function of the force *F* (N) and the stroke of the slide.



Safety loads

Check the tables below.
Excessive loads can damage the slide, cause functioning troubles and endanger the safety of the operator.
Fx s, Fz s, Mx s, My s, Mz s are maximum permitted static loads.
Fx d, Fz d, Mx d, My d, Mz d are maximum permitted dynamic loads.

It is also indicated the minimum actuating time t as a factor of the pay-load m.

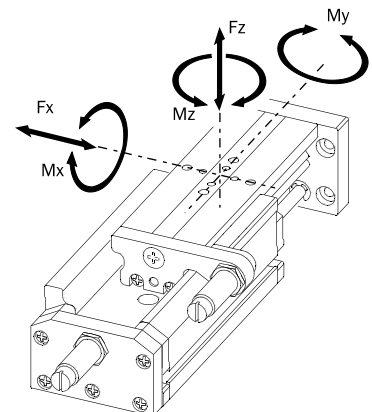
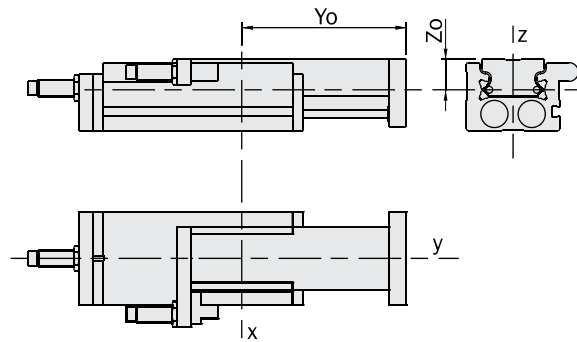
(*) When the actuating time and the pay-load produce an excessive kinetic energy you must reduce the speed by flow controllers (not supplied).

	Z-0825 Z-0825-D	Z-0850 Z-0850-D	Z-1650 Z-1650-D	Z-16100 Z-16100-D	Z-16150 Z-16150-D	Z-2050-D	Z-20100-D	Z-20150-D	Z-20200-D
Zo	14.5 mm	14.5 mm	18 mm	18 mm	18 mm	24 mm	24 mm	24 mm	24 mm
Yo	57 mm	87 mm	97mm	157 mm	217 mm	102 mm	167 mm	227 mm	295 mm
Fx s	60 N	60 N	200 N	250 N	250 N	250 N	350 N	350 N	450 N
Fz s	60 N	60 N	200 N	250 N	250 N	250 N	350 N	350 N	450 N
Mx s	3 Nm	6 Nm	12 Nm	24 Nm	30 Nm	15 Nm	36 Nm	45 Nm	66 Nm
My s	3 Nm	3 Nm	15 Nm	24 Nm	24 Nm	24 Nm	36 Nm	36 Nm	48 Nm
Mz s	3 Nm	6 Nm	12 Nm	24 Nm	30 Nm	15 Nm	36 Nm	45 Nm	66 Nm
Fx d	10 N	10 N	40 N	50 N	50 N	50 N	70 N	70 N	80 N
Fz d	10 N	10 N	40 N	50 N	50 N	50 N	70 N	70 N	80 N
Mx d	0.5 Nm	1 Nm	2 Nm	4 Nm	5 Nm	2.5 Nm	6 Nm	7.5 Nm	11 Nm
My d	0.5 Nm	0.5 Nm	2.5 Nm	4 Nm	4 Nm	4 Nm	6 Nm	6 Nm	8 Nm
Mz d	0.5 Nm	1 Nm	2 Nm	4 Nm	5 Nm	2.5 Nm	6 Nm	7.5 Nm	11 Nm
m max	1 kg	1 kg	4 kg	5 kg	5 kg	5 kg	7 kg	7 kg	8 kg

m	t Z-0825	t Z-0825-D	t Z-0850	t Z-0850-D
0.1 kg	0.054 s	0.180 s	0.113 s (*)	0.140 s
0.2 kg	0.066 s (*)	0.170 s	0.135 s (*)	0.137 s
0.3 kg	0.075 s (*)	0.160 s	0.155 s (*)	0.135 s
0.4 kg	0.084 s (*)	0.150 s	0.172 s (*)	0.133 s
0.5 kg	0.092 s (*)	0.140 s	0.187 s (*)	0.130 s
0.6 kg	0.099 s (*)	0.130 s	0.201 s (*)	0.136 s (*)
0.7 kg	0.106 s (*)	0.120 s	0.215 s (*)	0.142 s (*)
0.8 kg	0.112 s (*)	0.110 s	0.227 s (*)	0.147 s (*)
0.9 kg	0.118 s (*)	0.100 s	0.239 s (*)	0.152 s (*)
1 kg	0.124 s (*)	0.103 s (*)	0.250 s (*)	0.157 s (*)

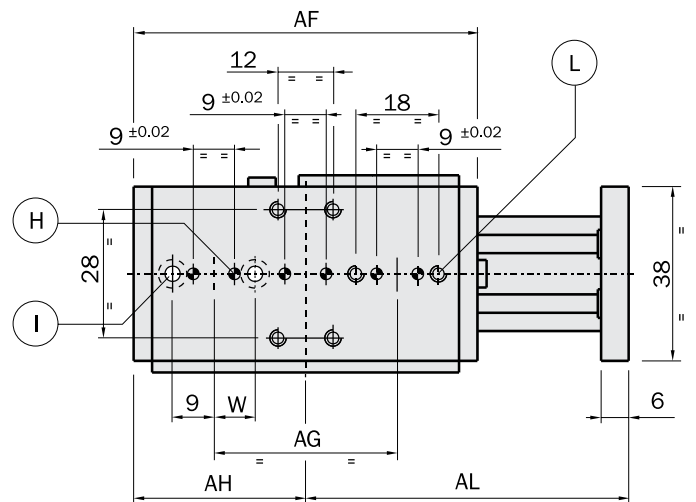
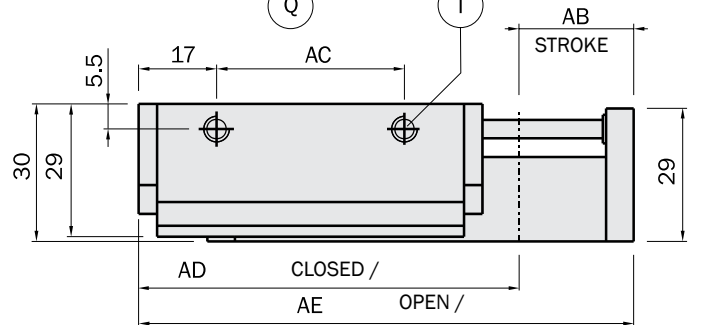
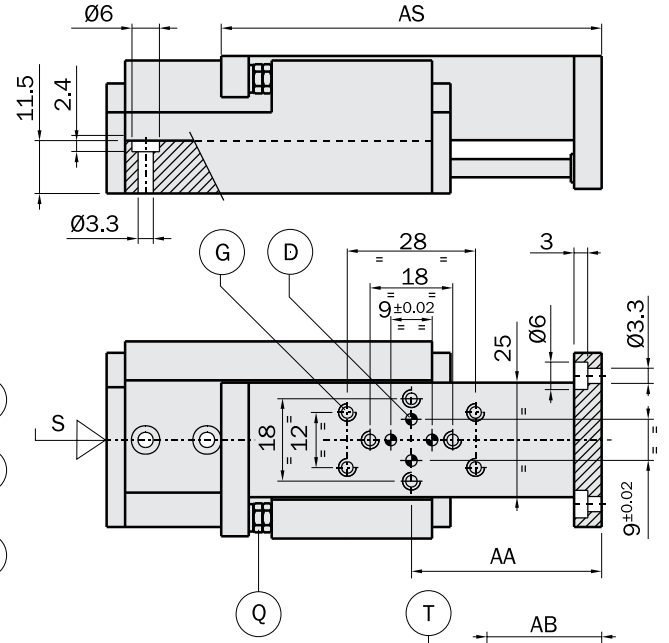
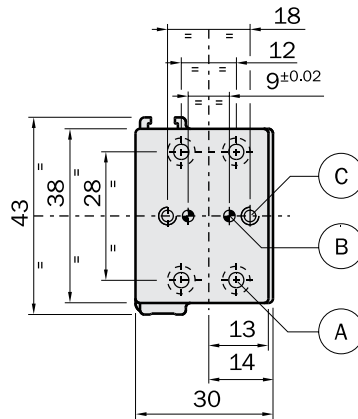
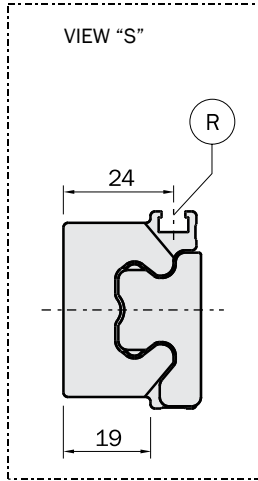
m	t Z-1650	t Z-1650-D	t Z-16100	t Z-16100-D	t Z-16150	t Z-16150-D
0.1 kg	0.080 s	0.120 s	0.163 s (*)	0.160	0.274 s (*)	0.240 s
0.5 kg	0.108 s (*)	0.115 s	0.231 s (*)	0.155	0.367 s (*)	0.230 s
1 kg	0.141 s (*)	0.110 s	0.294 s (*)	0.180 (*)	0.458 s (*)	0.264 s (*)
1.5 kg	0.168 s (*)	0.116 s (*)	0.346 s (*)	0.207 (*)	0.534 s (*)	0.303 s (*)
2 kg	0.191 s (*)	0.128 s (*)	0.392 s (*)	0.230 (*)	0.600 s (*)	0.336 s (*)
2.5 kg	0.212 s (*)	0.138 s (*)	0.432 s (*)	0.251 (*)	0.659 s (*)	0.367 s (*)
3 kg	0.231 s (*)	0.148 s (*)	0.469 s (*)	0.270 (*)	0.714 s (*)	0.395 s (*)
3.5 kg	0.248 s (*)	0.157 s (*)	0.503 s (*)	0.287 (*)	0.765 s (*)	0.421 s (*)
4 kg	0.265 s (*)	0.165 s (*)	0.535 s (*)	0.303 (*)	0.812 s (*)	0.445 s (*)
4.5 kg	-	-	0.566 s (*)	0.319 s (*)	0.857 s (*)	0.468 s (*)
5 kg	-	-	0.594 s (*)	0.334 s (*)	0.900 s (*)	0.490 s (*)

m	t Z-2050-D	t Z-20100-D	t Z-20150-D	t Z-20200-D
1 kg	0.135 s	0.200 s	0.265 s	0.310 s
2 kg	0.130 s	0.195 s	0.260 s	0.319 s (*)
3 kg	0.125 s	0.190 s	0.270 s (*)	0.357 s (*)
4 kg	0.120 s	0.207 s (*)	0.296 s (*)	0.391 s (*)
5 kg	0.129 s (*)	0.224 s (*)	0.320 s (*)	0.422 s (*)
6 kg	-	0.239 s (*)	0.342 s (*)	0.451 s (*)
7 kg	-	0.252 s (*)	0.363 s (*)	0.478 s (*)
8 kg	-	-	-	0.503 s (*)



Dimensions (mm)

	AA	AB	AC	AD	AE	AF	AG	AH	AL	W	AS
Z-0825	41.5	25	41	83	108	75	40	37.5	70.5	-	83
Z-0850	59	50	76	118	168	110	50	55	113	9	118

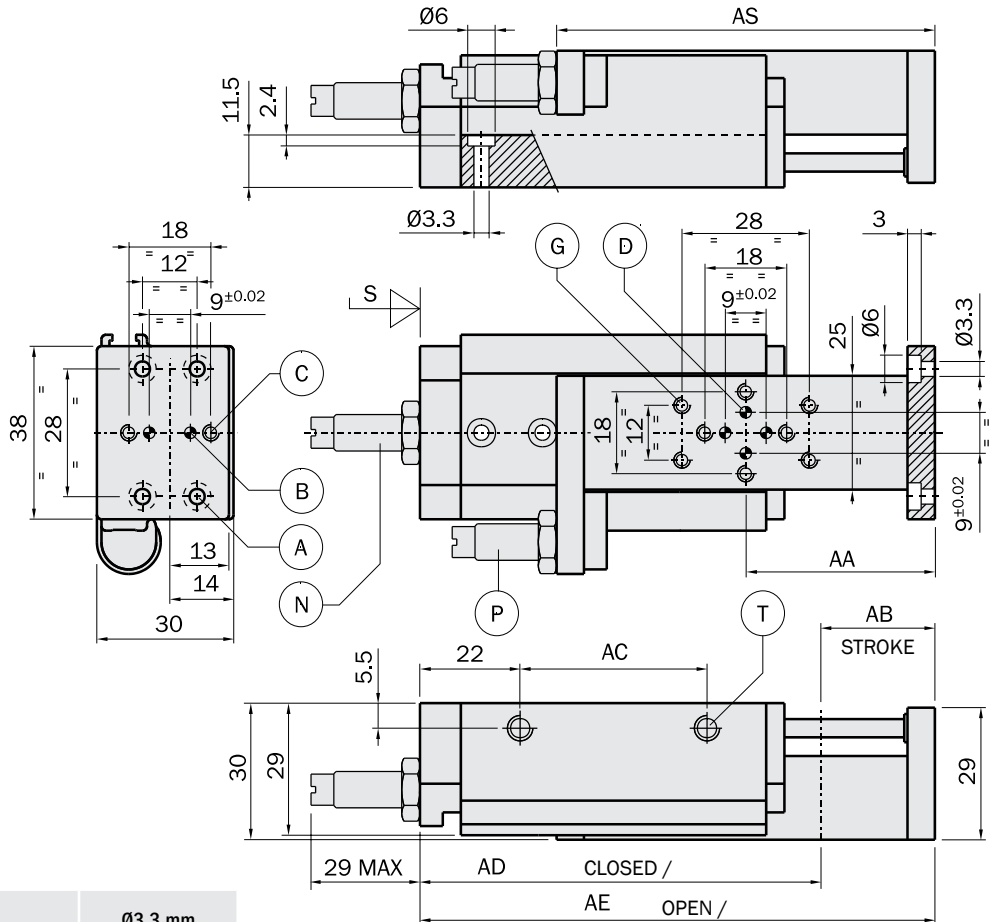
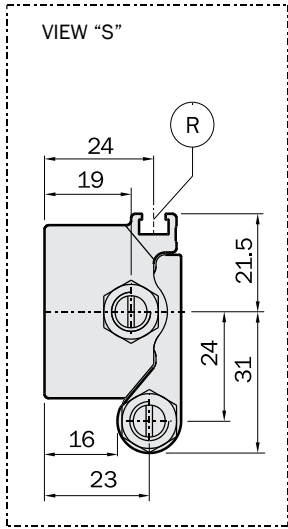


A	Through hole for fastening	Ø3.3 mm
B	Dowel pin hole	Ø2.5H8x4.5 mm
C	Threaded hole for fastening	M3x6 mm
D	Dowel pin hole	Ø2.5H8x5 mm
G	Threaded hole for fastening	M3x5 mm
H	Dowel pin hole	Ø2.5H8x6 mm
I	Through hole for fastening	Ø3.3 mm
L	Threaded hole for fastening	M3x6 mm
N	Retraction stroke adjustment	
P	Extension stroke adjustment	
R	Gimatic sensor slot	
T	Air connection	M5

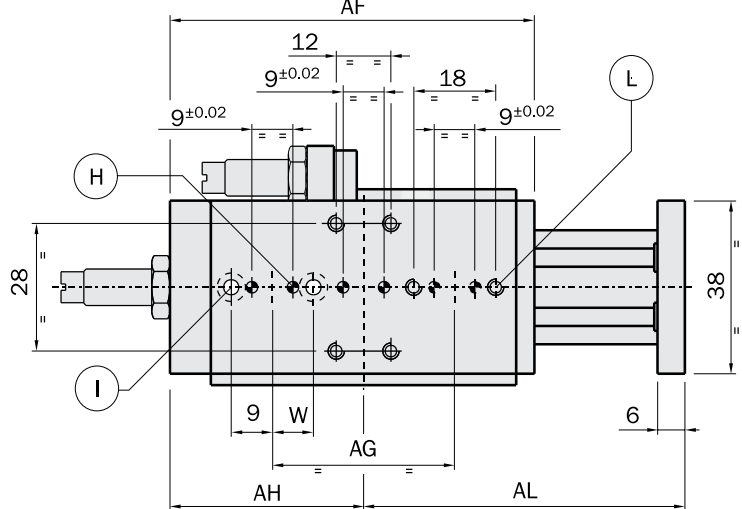


Dimensions (mm)

	AA	AB	AC	AD	AE	AF	AG	AH	AL	W	AS
Z-0825-D	41.5	25	41	88	113	80	40	42.5	70.5	-	83
Z-0850-D	59	50	76	123	173	115	50	60	113	9	118



A	Through hole for fastening	Ø3.3 mm
B	Dowel pin hole	Ø2.5H8x4.5 mm
C	Threaded hole for fastening	M3x6 mm
D	Dowel pin hole	Ø2.5H8x5 mm
G	Threaded hole for fastening	M3x5 mm
H	Dowel pin hole	Ø2.5H8x6 mm
I	Through hole for fastening	Ø3.3 mm
L	Threaded hole for fastening	M3x6 mm
N	Retraction stroke adjustment	
P	Extension stroke adjustment	
R	Gimatic sensor slot	
T	Air connection	M5

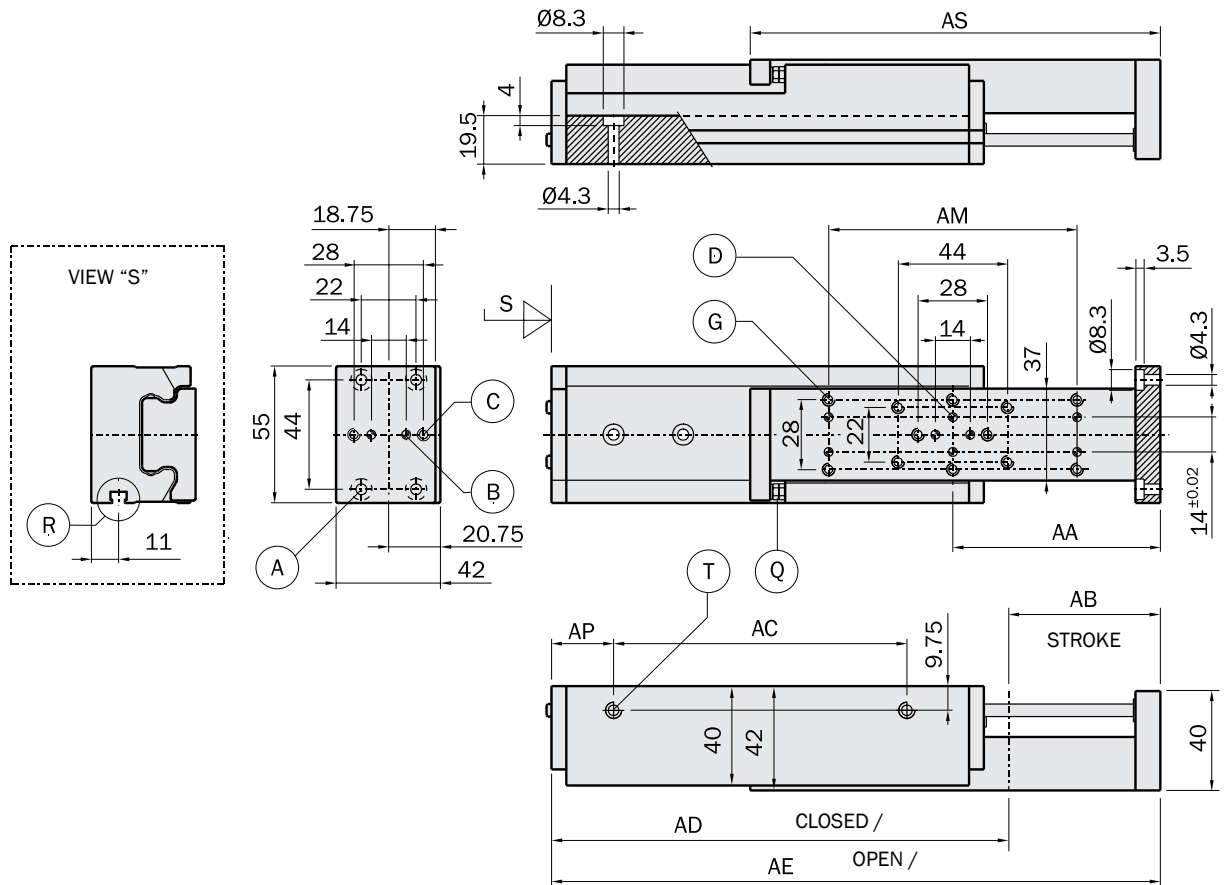


FIRST ANGLE PROJECTION

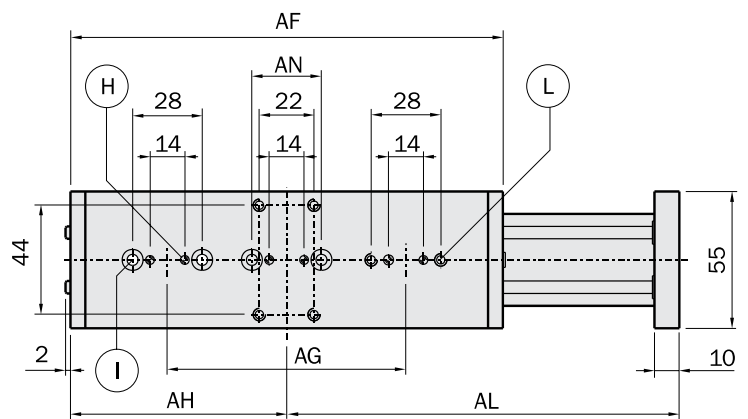
Rotary Units, Quick Changer, Profiles and Brackets, Grippers, Linear Actuators, Suspensions, Nippers, Robot Kit, Options, Sensors

Dimensions (mm)

	AA	AB	AC	AD	AE	AF	AG	AH	AL	AM	AN	W	AS
Z-1650	68.5	50	82	135	185	124	62	62	123	-	-	21	135
Z-16100	103.5	100	144	205	305	194	100	97	208	120	-	25	205
Z-16150	138.5	150	204	275	425	264	160	132	293	140	28	30	275



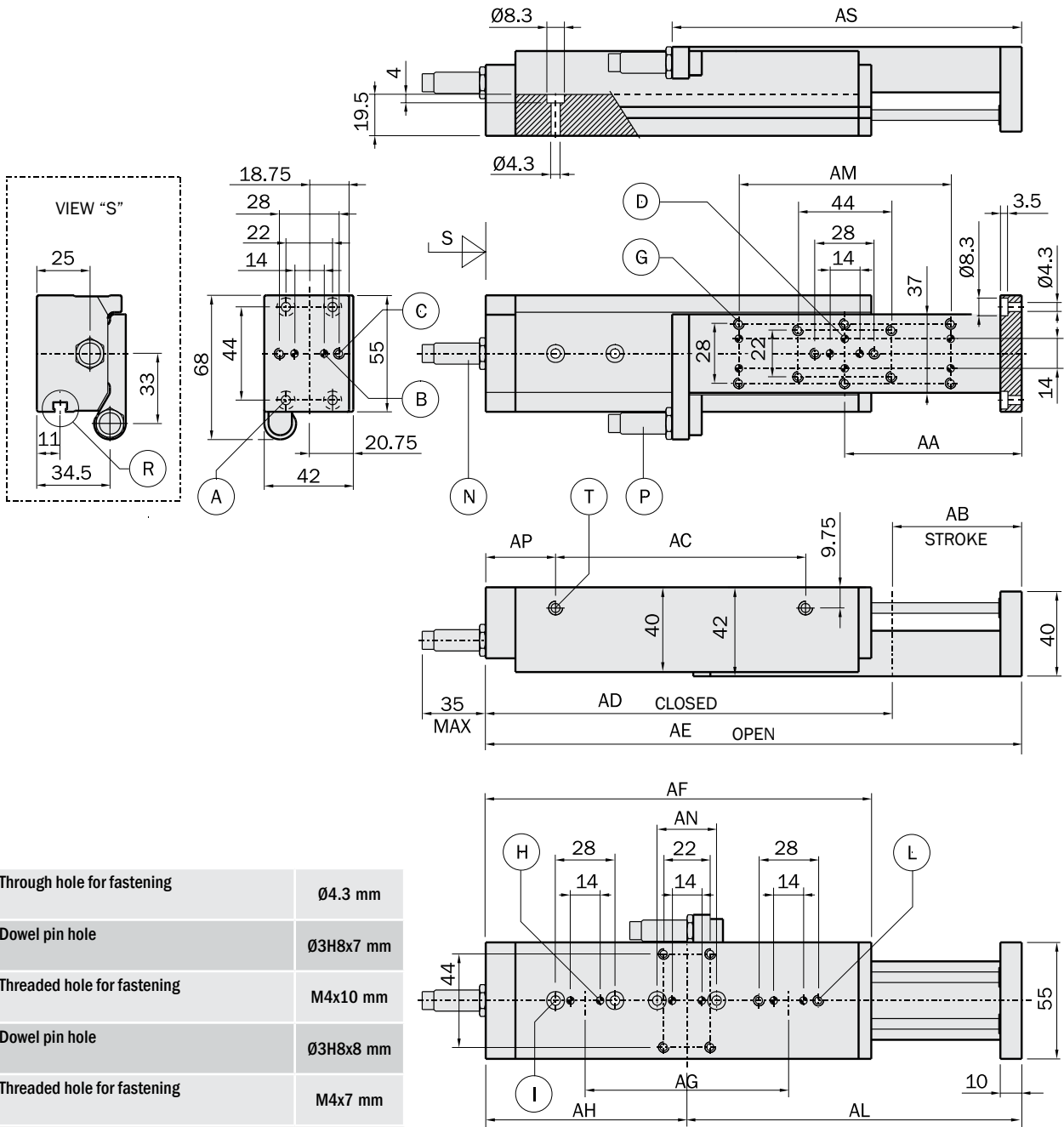
A	Through hole for fastening	Ø4.3 mm
B	Dowel pin hole	Ø3H8x7 mm
C	Threaded hole for fastening	M4x10 mm
D	Dowel pin hole	Ø3H8x8 mm
G	Threaded hole for fastening	M4x7 mm
H	Dowel pin hole	Ø3H8x7 mm
I	Through hole for fastening	Ø4.3 mm
L	Threaded hole for fastening	M4x6 mm
Q	Extension stroke adjustment	
R	Gimatic sensor slot	
T	Air connection	M5



FIRST ANGLE PROJECTION

Dimensions (mm)

	AA	AB	AC	AD	AE	AF	AG	AH	AL	AM	AN	AP	AS
Z-1650-D	68.5	50	82	143	193	132	62	70	123	-	-	29	135
Z-16100-D	103.5	100	144	213	313	202	100	105	208	120	-	33	205
Z-16150-D	138.5	150	204	283	433	272	160	140	293	140	28	38	275

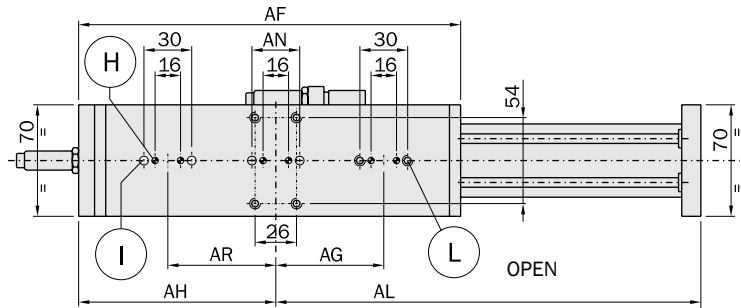
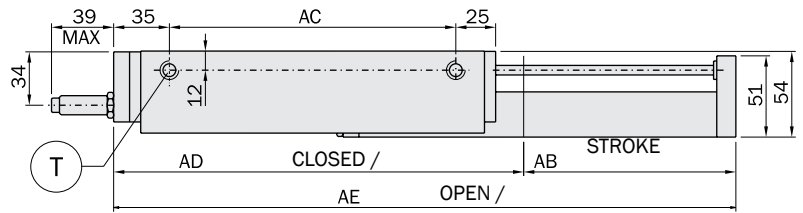
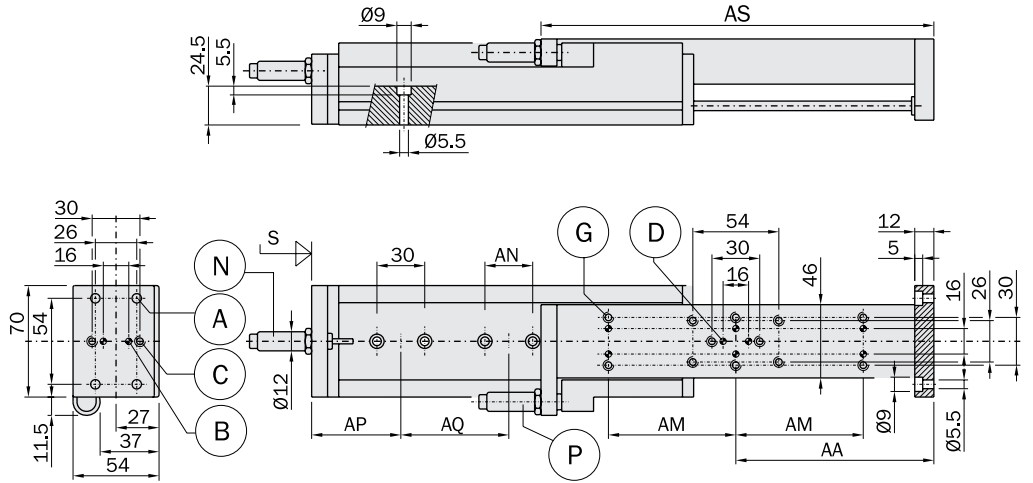
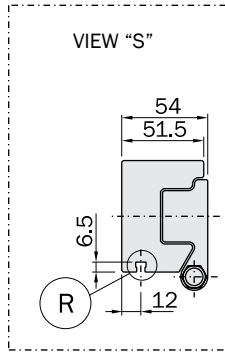


A	Through hole for fastening	Ø4.3 mm
B	Dowel pin hole	Ø3H8x7 mm
C	Threaded hole for fastening	M4x10 mm
D	Dowel pin hole	Ø3H8x8 mm
G	Threaded hole for fastening	M4x7 mm
H	Dowel pin hole	Ø3H8x7 mm
I	Through hole for fastening	Ø4.3 mm
L	Threaded hole for fastening	M4x6 mm
N	Retraction stroke adjustment	
P	Extension stroke adjustment	
R	Gimatic sensor slot	
T	Air connection	M5

FIRST ANGLE PROJECTION

Dimensions (mm)

	AA	AB	AC	AD	AE	AF	AG	AH	AL	AM	AN	AP	AQ	AR	AS
Z-2050-D	72	50	80	155	205	140	32	75	130	-	-	43	-	32	142
Z-20100-D	112	100	160	235	335	220	35	115	220	-	-	80	-	35	222
Z-20150-D	147	150	230	305	455	290	80	143	312	80	30	63	80	80	292
Z-20200-D	190	200	316	391	591	376	120	193	398	118	30	-	-	-	378



A	Through hole for fastening	Ø5.5 mm
B	Dowel pin hole	Ø4H8x10 mm
C	Threaded hole for fastening	M5x12 mm
D	Dowel pin hole	Ø4H8x10 mm
G	Threaded hole for fastening	M5x8 mm
H	Dowel pin hole	Ø4H8x8 mm
I	Through hole for fastening	Ø5.5 mm
L	Threaded hole for fastening	M5x10 mm
N	Retraction stroke adjustment	
P	Extension stroke adjustment	
R	Gimatic sensor slot	
T	Air connection	1/8" Gas

FIRST ANGLE PROJECTION