

Ordering code

6600.Ø.stroke. _ . _	
8	= Without accessories
12	A = Double regulation end stroke
16	AU = Regulation front end stroke
20	AR = Regulation rear end stroke
25	D = Double shock absorber
	DU = Front shock absorber
	DR = Rear shock absorber

Construction characteristics

Body	anodised aluminium
Piston rod	stainless steel
Piston	stainless steel
Piston rod bushing	sintered bronze
End plate	anodised aluminium
Cushioning washer	PUR
Seal	oil resistant NBR rubber
Flange	anodised aluminium
Upper plate	anodised aluminium

Technical characteristics

Fluid	filtered and preferably lubricated air or not (If lubricated the lubrication must be continuous)
Working pressure	1.5 - 7 bar
Working temperature	-5°C - +70°C
Cushioning	with elastic bumper

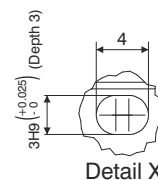
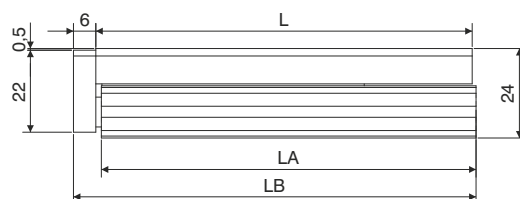
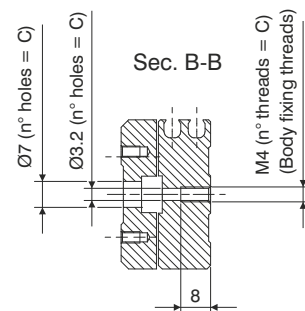
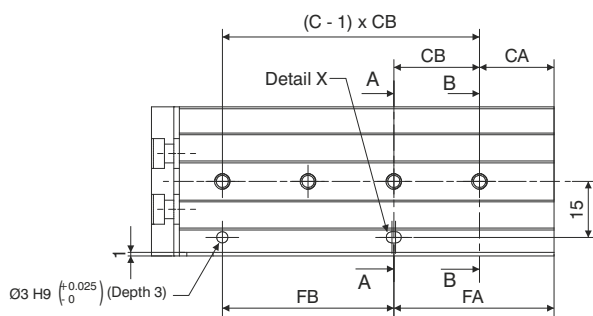
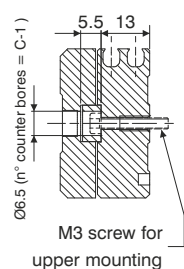
Theoretical force

Bore	Effective area (mm ²)	Force (N)						
Ø8	Uscita	101	20	30	40	51	61	71
	Rientro	75	15	23	30	38	45	53
Ø12	Uscita	226	45	68	90	113	136	158
	Rientro	170	34	51	68	85	102	119
Ø16	Uscita	402	80	121	161	201	241	281
	Rientro	302	60	91	121	151	181	211
Ø20	Uscita	628	126	188	251	314	377	440
	Rientro	471	94	141	188	236	283	330
Ø25	Uscita	982	196	295	393	491	589	687
	Rientro	756	151	227	302	378	454	529
			2	3	4	5	6	7
			Working pressure(bar)					

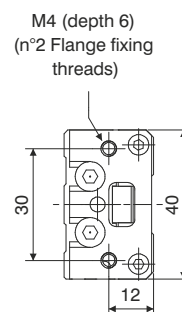
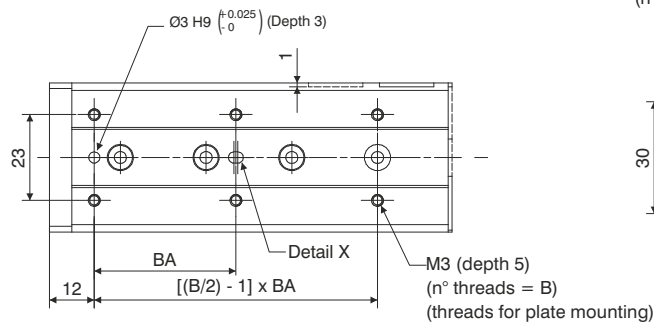
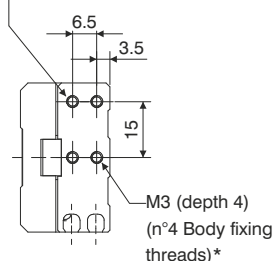
Standard strokes

	Stroke					
Bore	10	20	30	40	50	75
Ø8	●	●	●	●	●	●
Ø12	●	●	●	●	●	●
Ø16	●	●	●	●	●	●
Ø20	●	●	●	●	●	●
Ø25	●	●	●	●	●	●

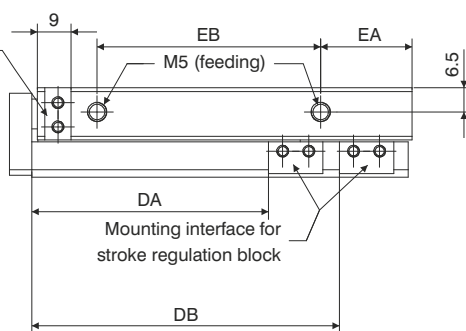
Sec. A-A



Mounting surface for stroke regulation block



Mounting surface for stroke regulation block



Sensor slot detail type "D"

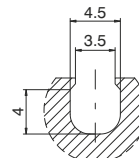


Table of dimensions

	Standard stroke					
	10	20	30	40	50	75
B	4	4	4	4	6	6
BA	25	25	40	50	38	50
C	2	2	3	3	4	5
CA	9	12	13	15	20	27
CB	28	30	20	28	23	28
DA	23,5	33,5	43,5	53,5	63,5	88,5
DB	/	/	/	/	82,5	132,5
FA	17	12	33	43	43	83
FB	20	30	20	28	46	56
EA	13	8,5	9,5	10,5	24,5	38,5
EB	19,5	29	39	56	60	96
L	49	54	65	83	101	151
LA	48,5	53,5	64,5	82,5	100,5	150,5
LB	56	61	72	90	108	158
Weight (gr.)	150	160	190	235	285	410

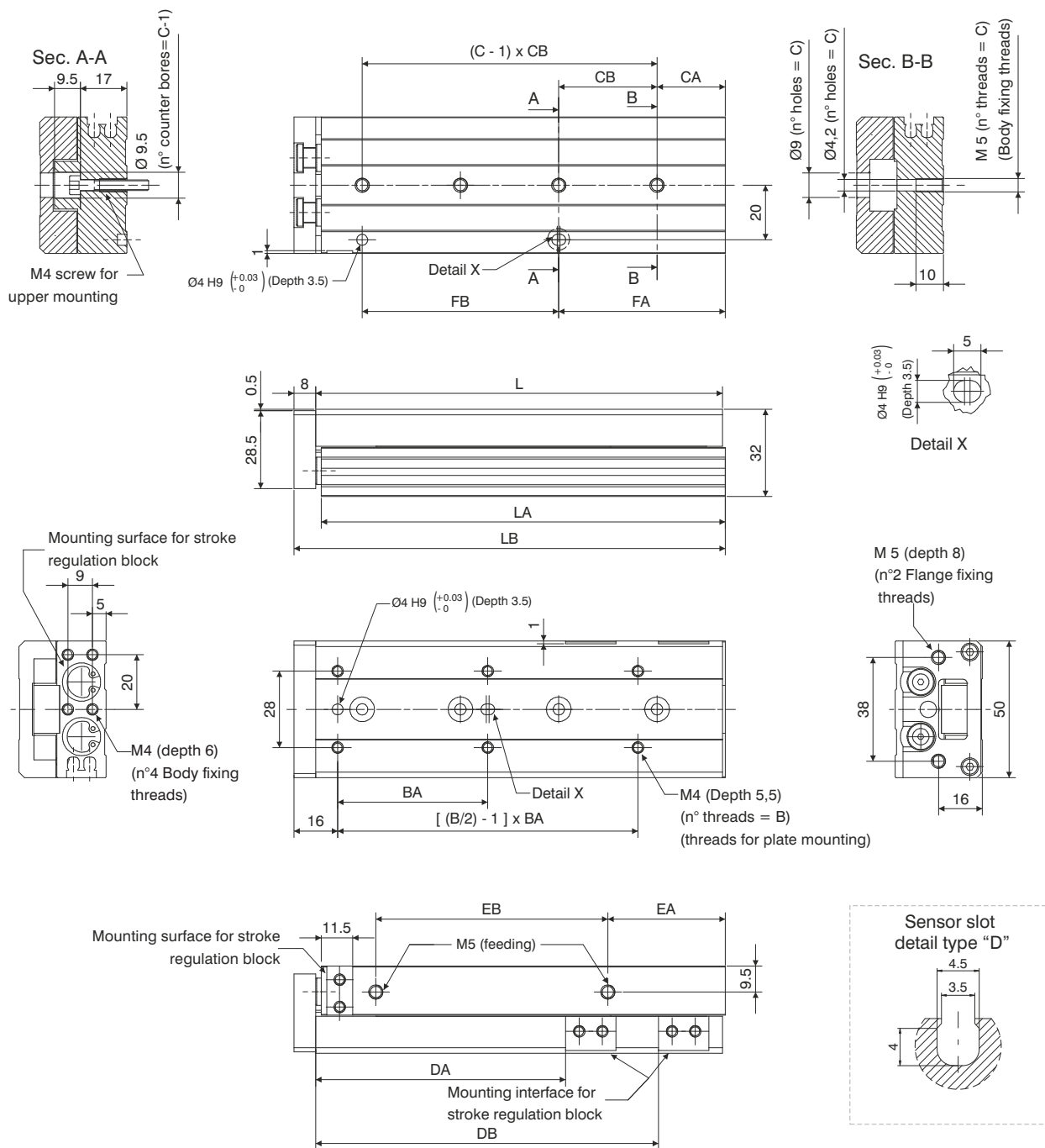


Table of dimensions

	Standard stroke						
	10	20	30	40	50	75	100
B	4				6		
BA		35		50	35	55	65
C		2		3	3	4	5
CA		15		17	15	25	35
CB		40		25	36	36	38
DA	26,5	36,5	46,5	56,5	66,5	91,5	116,5
DB	/	/	/	/	/	125,5	179,5
FA		15		42	51	61	111
FB		40		25	36	72	76
EA	10				22	43	52
EB		40		52	60	85	130
L		71		83	103	149	203
LA		70		82	102	148	202
LB		80		92	112	158	212
Weight (gr.)		325		385	480	660	890

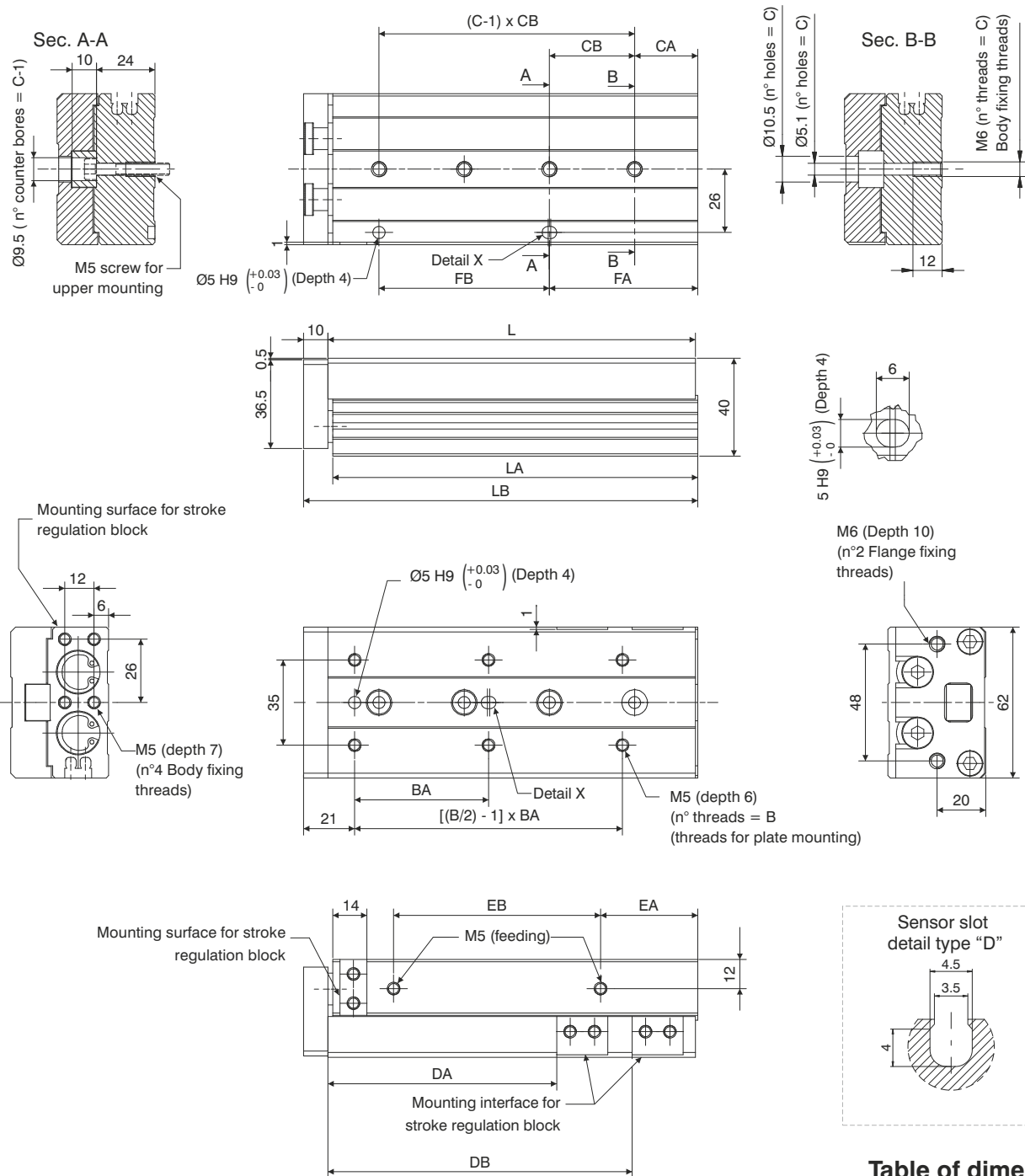


Table of dimensions

	Standard stroke							
	10	20	30	40	50	75	100	125
B	4	4	4	4	6	6	6	8
BA	35	35	35	40	30	55	65	70
C	2	2	2	2	3	4	5	7
CA	16	16	16	16	21	26	39	19
CB	40	40	40	50	30	35	35	35
DA	29	39	49	59	69	94	119	144
DB	/	/	/	/	/	125	173	223
FA	16	16	16	16	51	61	109	159
FB	40	40	40	50	30	70	70	70
EA	10	10	10	10	15	40	55	68
EB	40	40	40	50	60	85	118	155
L	76	76	76	86	101	151	199	249
LA	75	75	75	85	100	150	198	248
LB	87	87	87	97	112	162	210	260
Weight (gr.)	570	570	580	640	760	1090	1370	1700

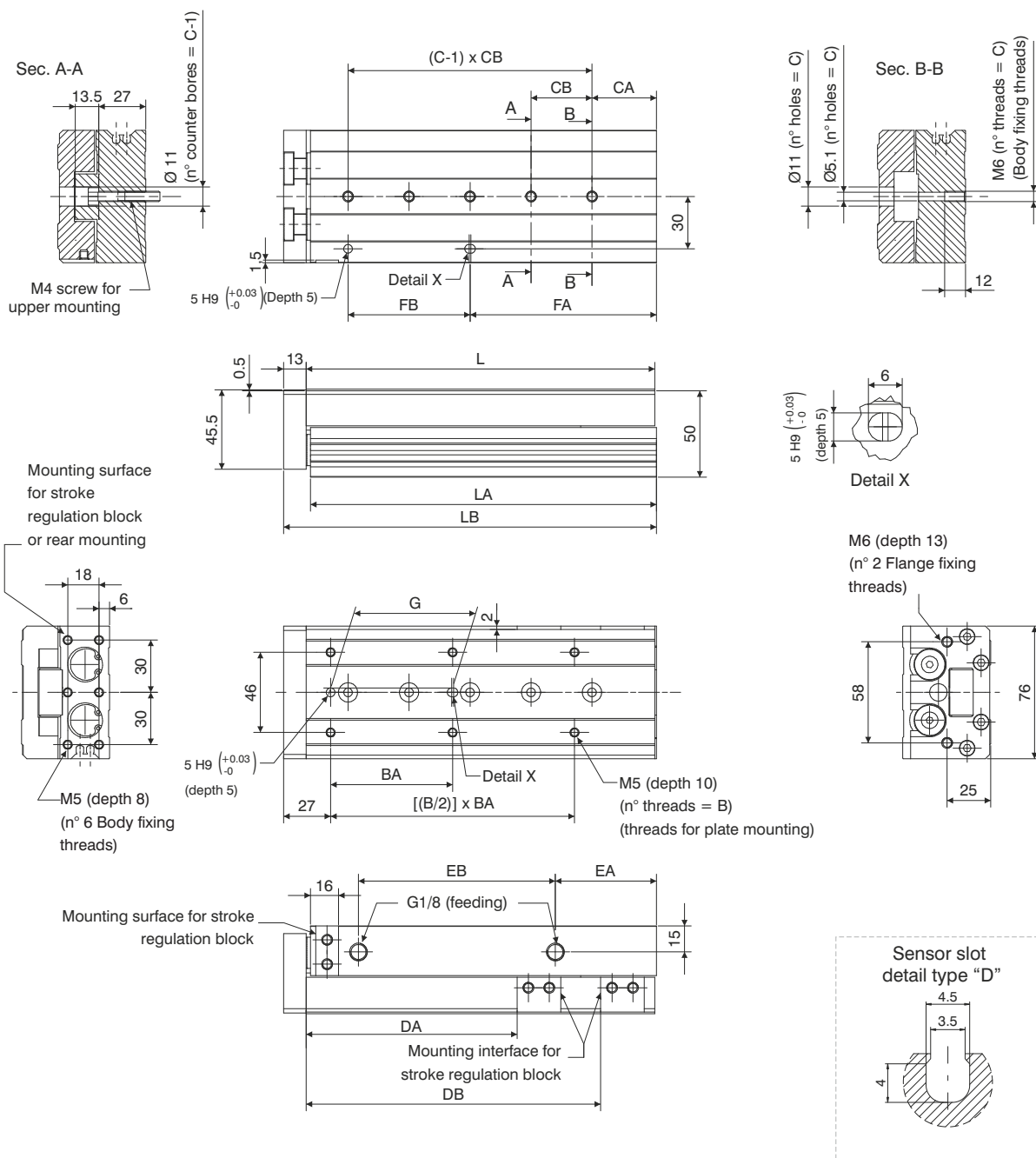


Table of dimensions

	Standard stroke								
	10	20	30	40	50	75	100	125	150
B	4	4	4	4	6	6	6	8	8
BA	50	50	50	60	35	60	70	70	80
C	2	2	2	2	3	4	5	6	7
CA	15	15	15	15	15	19	37	41	19
CB	45	45	45	55	35	35	35	38	44
DA	31	41	51	61	71	96	121	146	171
DB	/	/	/	/	/	/	169	223	275
EA	10	10	10	10	10	10	58	70	87
EB	44	44	44	54	69	108	113	155	190
FA	25	25	25	35	50	54	107	155	195
FB	35	35	35	35	35	70	70	76	88
G	40	40	40	50	35	60	70	70	80
L	83	83	83	93	108	147	200	254	306
LA	81,5	81,5	81,5	91,5	106,5	145,5	198,5	252,5	304,5
LB	97	97	97	107	122	161	214	268	320
Weight (gr.)	960	980	1010	1100	1250	1630	2150	2670	3190

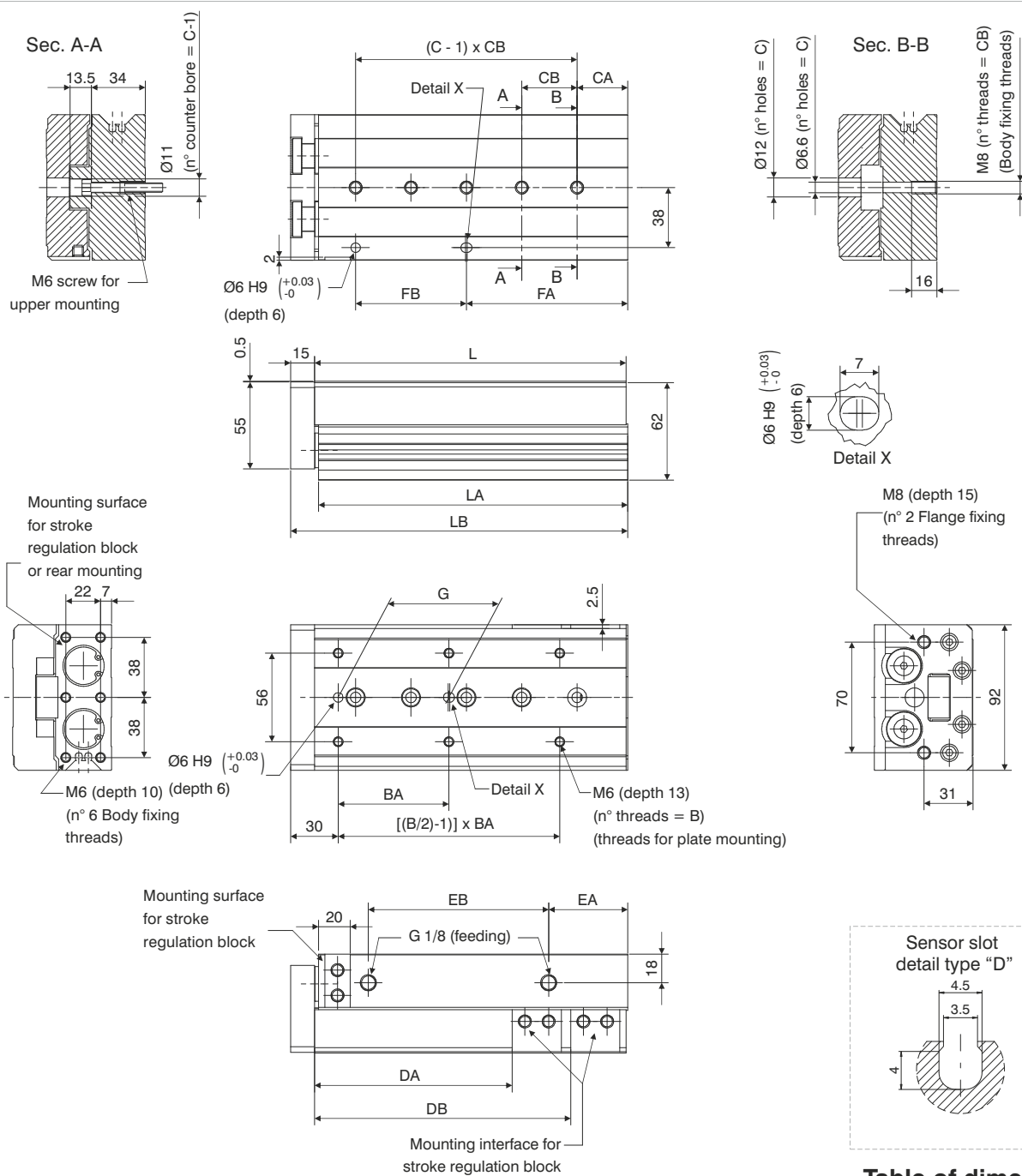
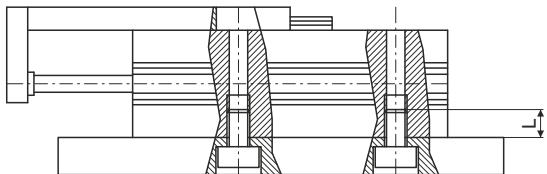


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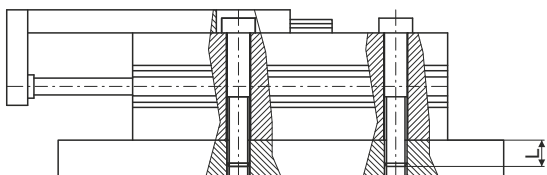
	Standard stroke								
	10	20	30	40	50	75	100	125	150
B	4	4	4	4	6	6	6	8	8
BA	50	50	50	60	35	60	70	75	80
C	2	2	2	2	3	4	5	6	7
CA	22	22	22	22	20	26	32	40	30
CB	45	45	45	55	35	35	35	38	40
DA	35	45	55	65	75	100	125	150	175
DB	/	/	/	/	/	/	162	218	258
EA	12	12	12	12	12	33	50	67	82
EB	47	47	47	57	70	90	114	155	180
FA	22	22	22	22	55	61	102	154	190
FB	45	45	45	55	35	70	70	76	80
G	40	40	40	50	35	60	70	75	80
L	92	92	92	102	115	156	197	255	295
LA	90,5	90,5	90,5	100,5	113,5	154,5	195,5	253,5	293,5
LB	108	108	108	118	131	172	213	271	311
Weight (gr.)	1660	1680	1690	1840	2090	2650	3270	4140	4710

SIDE THREADED HOLES



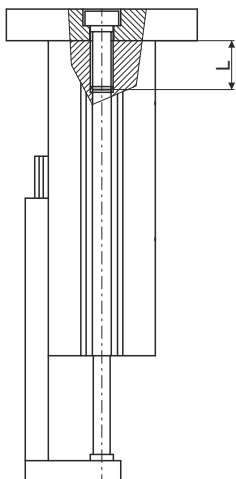
Bore	Screw	Torque (Nm)	Max. Length L (mm)
Ø8	M3	2,1	8
Ø12	M4	4,4	10
Ø16	M5	7,4	12
Ø20	M5	7,4	12
Ø25	M6	18	16

SIDE THROUGH HOLES



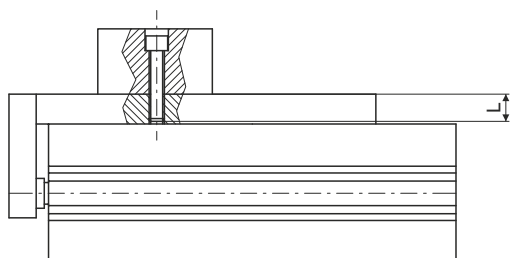
Bore	Screw	Torque (Nm)	Max. Length L (mm)
Ø8	M3	1,2	13
Ø12	M4	2,8	18,5
Ø16	M5	5,7	24
Ø20	M5	5,7	29
Ø25	M6	18	34

AXIAL THREADED HOLES

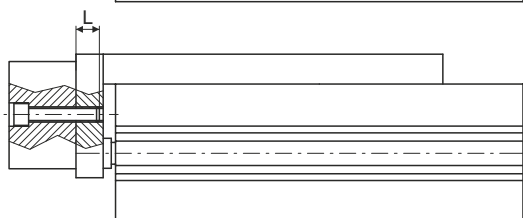


Bore	Screw	Torque (Nm)	Max. Length L (mm)
Ø8	M3	0,9	4
Ø12	M4	2,1	6
Ø16	M5	4,4	7
Ø20	M5	4,4	8
Ø25	M6	7,4	10

Mounting load



Bore	Screw	Torque (Nm)	Max. Length L (mm)
Ø8	M3	2,1	6
Ø12	M4	4,4	8
Ø16	M5	7,4	10
Ø20	M5	7,4	13
Ø25	M6	18	15

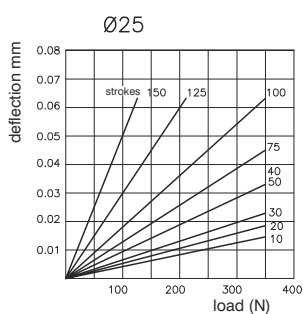
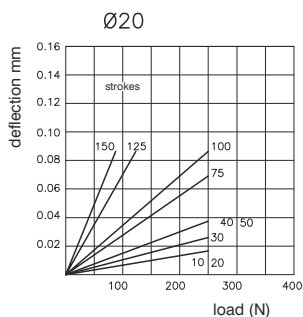
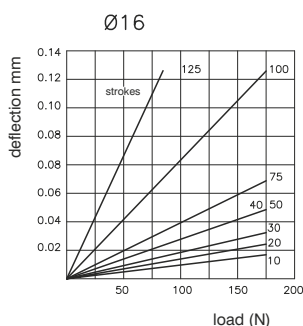
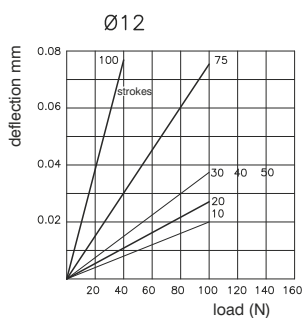
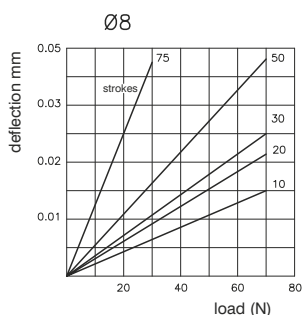


Bore	Screw	Torque (Nm)	Max. Length L (mm)
Ø8	M3	0,9	5
Ø12	M4	2,1	5,5
Ø16	M5	4,4	6
Ø20	M5	4,4	10
Ø25	M6	7,4	13

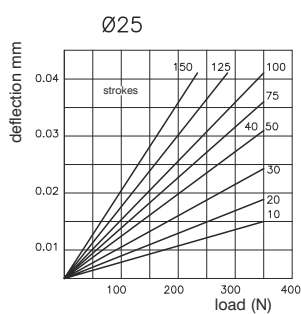
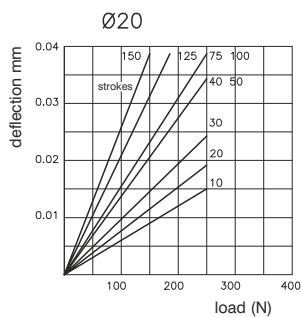
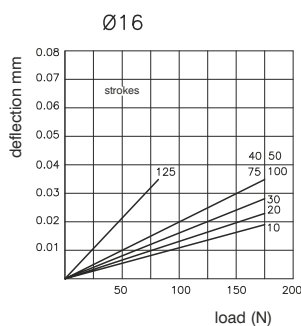
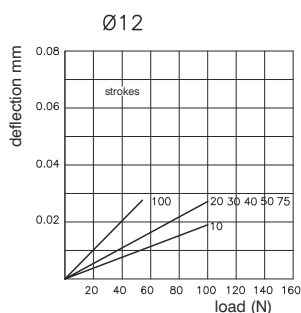
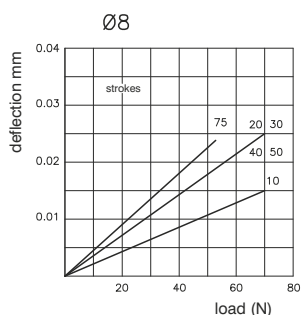
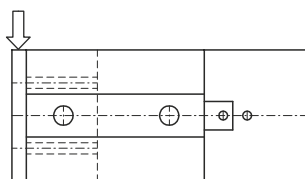
Kinetic energy (J)

Bore	With elastic bumper	With shock absorber
Ø8	0,027	See Dampers 6900
Ø12	0,055	
Ø16	0,11	
Ø20	0,16	
Ø25	0,24	

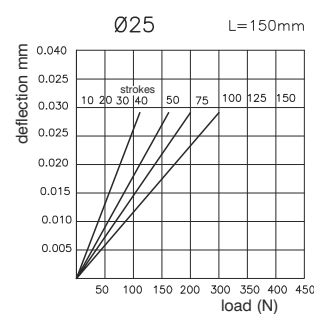
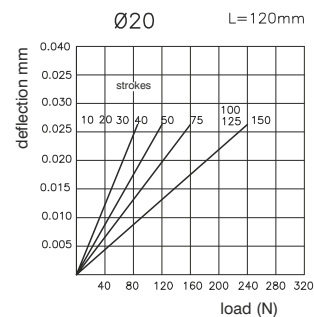
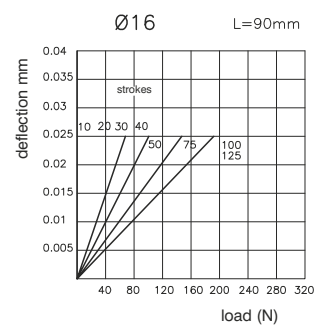
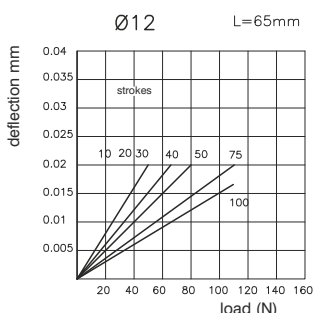
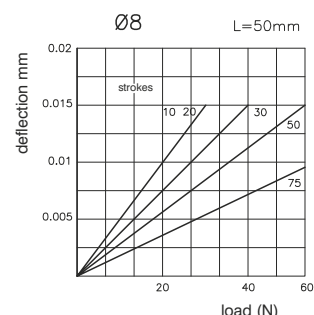
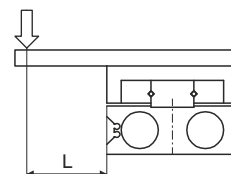
With front moment under static conditions completely extended and with load applied as indicated by the arrows.



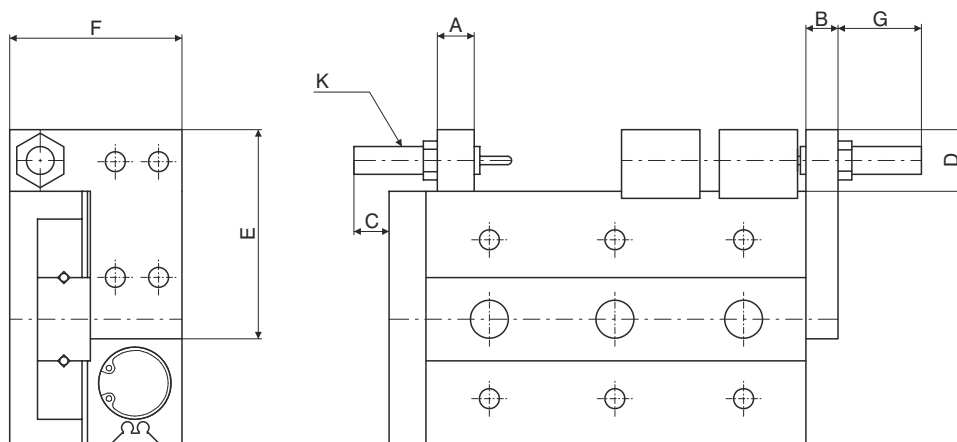
With side moment under static conditions completely extended and with load applied as indicated by the arrow



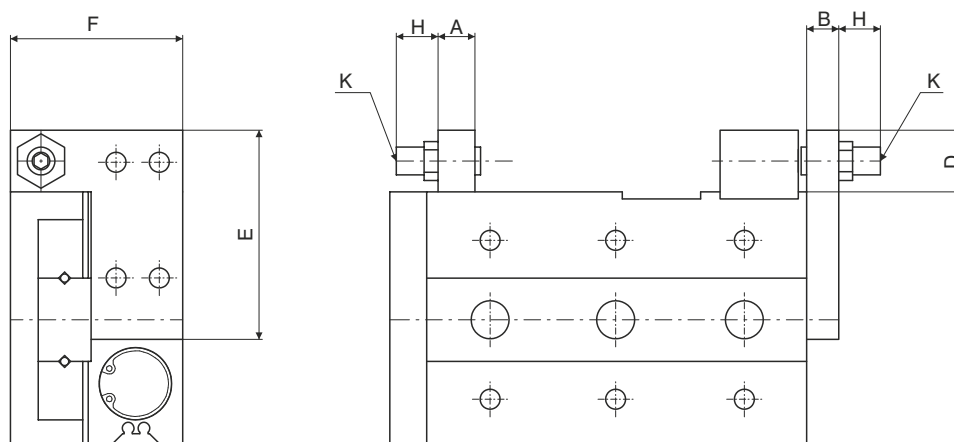
With misaligned side moment with load applied as indicated by the arrow at a distance "L" and with plate completely retracted.



Dimensions with dampers

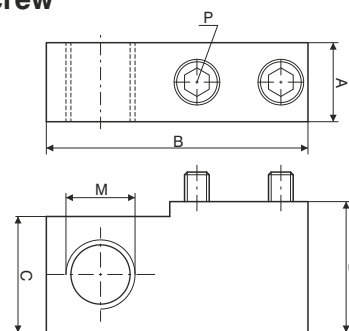


Dimensions with adjusting screw



Bore	A	B	C	D	E	F	G max.	H max.	K
Ø8	7	8	26	14,5	38,5	23	25,5	28,5	M8x1
Ø12	9,5	8	21	15	45	31,5	24,5	32	M8x1
Ø16	11	10	19	18	55	37,5	29	34,5	M10x1
Ø20	13	12	28	24,5	70	47,5	42,5	35,5	M14x1,5
Ø25	16	15	34	24,5	80	54,5	39,5	37,5	M14x1,5

Shock absorber mounting block / front stroke adjusting screw

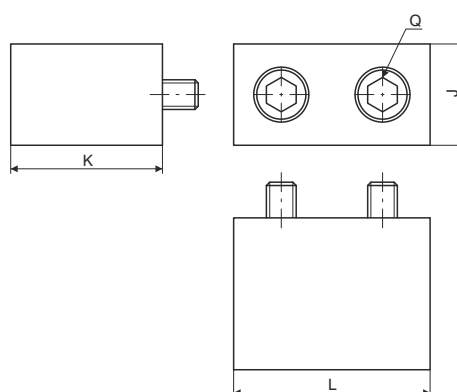
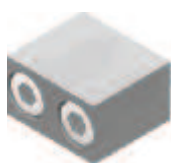


Bore	A	B	C	D	M	P
Ø8	7	23	14	15.5	M8x1	M3x16
Ø12	9.5	31	14.5	16		M4x16
Ø16	11	37	17.5	19	M10x1	M5x18
Ø20	13	45.5	23.5	26	M14x1.5	M6x25
Ø25	16	53.5		26.5		M8x25

Ordering code

6600.Ø.SU

Reference block

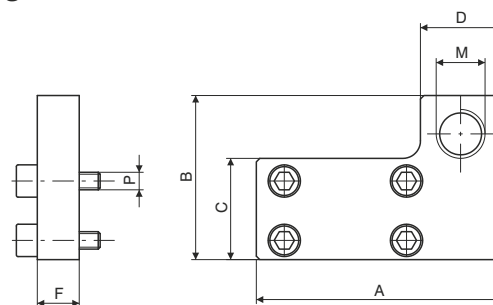


Bore	J	K	L	Q
Ø8	7	15.5	14.6	M3x16
Ø12	10	15	18.5	M4x14
Ø16	12	18.5	21	M5x18
Ø20	13	25.5	25	M6x25
Ø25	17		31	M8x25

Ordering code

6600.Ø.SI

Shock absorber mounting block / rear stroke adjusting screw

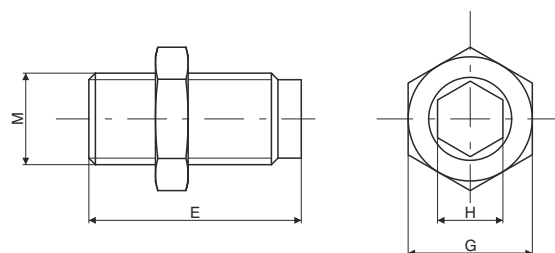


Bore	A	B	C	D	F	M	P
Ø8	38	23	12.5	14	8	M8x1	M3x12
Ø12	45	31	18				M4x12
Ø16	55	37	23.5	16	10	M10x1	M5x14
Ø20	70	47	29	23	12	M14x1.5	M5x16
Ø25	80	54	35		15		M6x20

Ordering code

6600.Ø.SR

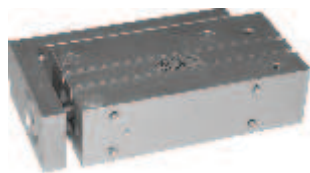
Adjusting screw



Bore	E	G	H	M
Ø8	36.5	12	4	M8x1
Ø12	40			
Ø16	44.5	14	5	M10x1
Ø20	47.5	19	6	M14x1.5
Ø25	52.5			

Ordering code

6600.Ø.VR



Ordering code

6700.Ø.stroke

10
16
20

Construction characteristics

Body	anodised aluminium
Piston rod	stainless steel
Piston	aluminium
Piston rod bushing	aluminium
End plate	anodised aluminium
Seals	oil resistant NBR rubber
Table	anodised aluminium

Standard strokes

Bore	Stroke								
	5	10	15	20	25	30	40	50	60
Ø10	●	●	●	●	●	●	●	●	●
Ø16	●	●	●	●	●	●	●	●	●
Ø20	●	●	●	●	●	●	●	●	●

Technical characteristics

Fluid	filtered and preferably lubricated air or not (If lubricated the lubrication must be continuous)
Working pressure	1.2 - 7 bar
Working temperature	-5°C - +70°C
Cushioning	with elastic bumper

Theoretical force

Bore	Effective Area (mm²)		Force (N)						
	Out	In	28.3	5.7	8.5	11.3	14.2	17	19.8
Ø10	Out	In	28.3	5.7	8.5	11.3	14.2	17	19.8
	In	Out	21.2	4.2	6.4	8.5	10.6	12.7	14.8
Ø16	Out	In	78.5	15.7	23.6	31.4	39.3	47.1	55
	In	Out	66	13.2	19.8	26.4	33	39.6	46.2
Ø20	Out	In	314	62.8	94.2	125.6	157	188.4	219.8
	In	Out	264	52.8	79.2	105.6	132	158.4	184.8
			2	3	4	5	6	7	
			Working pressure(bar)						

Overall dimensions - Ø10

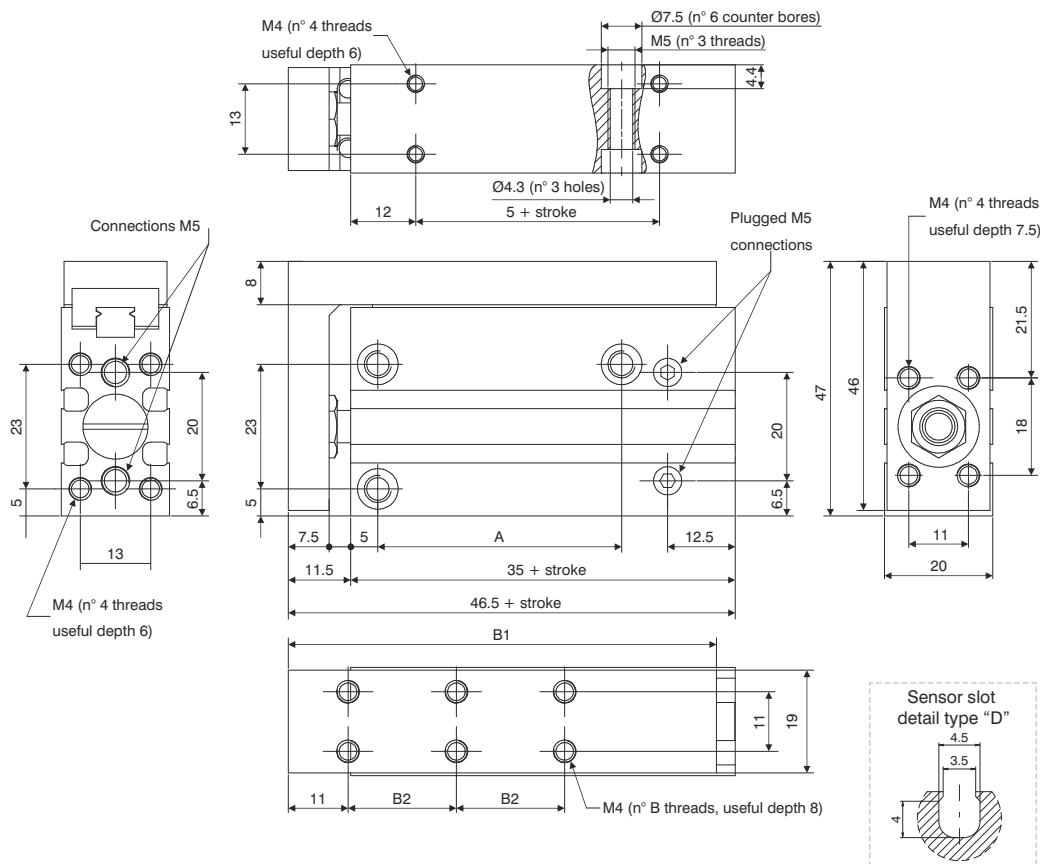


Table of dimensions

	Standard strokes							
	5	10	15	20	25	30	40	60
A	14	24	30	45	45	60		
B1	49	59	69	79	79	99		
B2	10	20	30	20	20	30		
B	4				6			
Weight (gr.)	117	125	140	148	162	170	192	215

Overall dimensions - Ø16

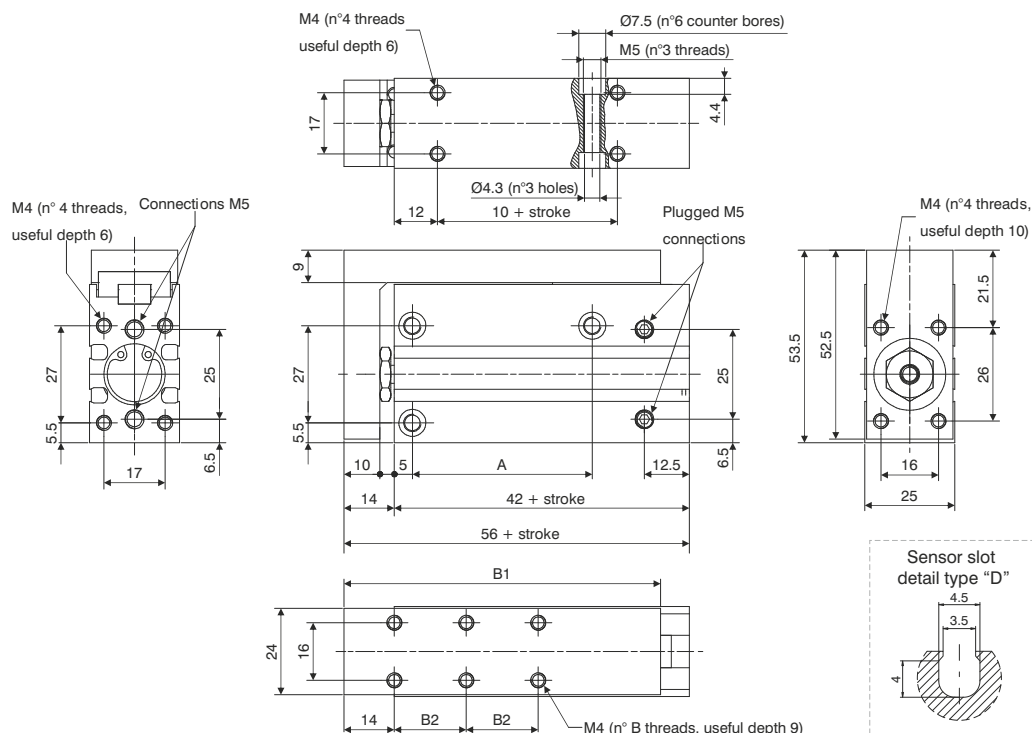


Table of dimensions

	Standard strokes								
	5	10	15	20	25	30	40	50	60
A	20		30		40		50	60	
B1	58		68		78		88	98	108
B2	10		20		30		20	25	30
B	4						6		
Weight (gr.)	215	230	250	260	280	290	325	350	390

Overall dimensions - Ø20

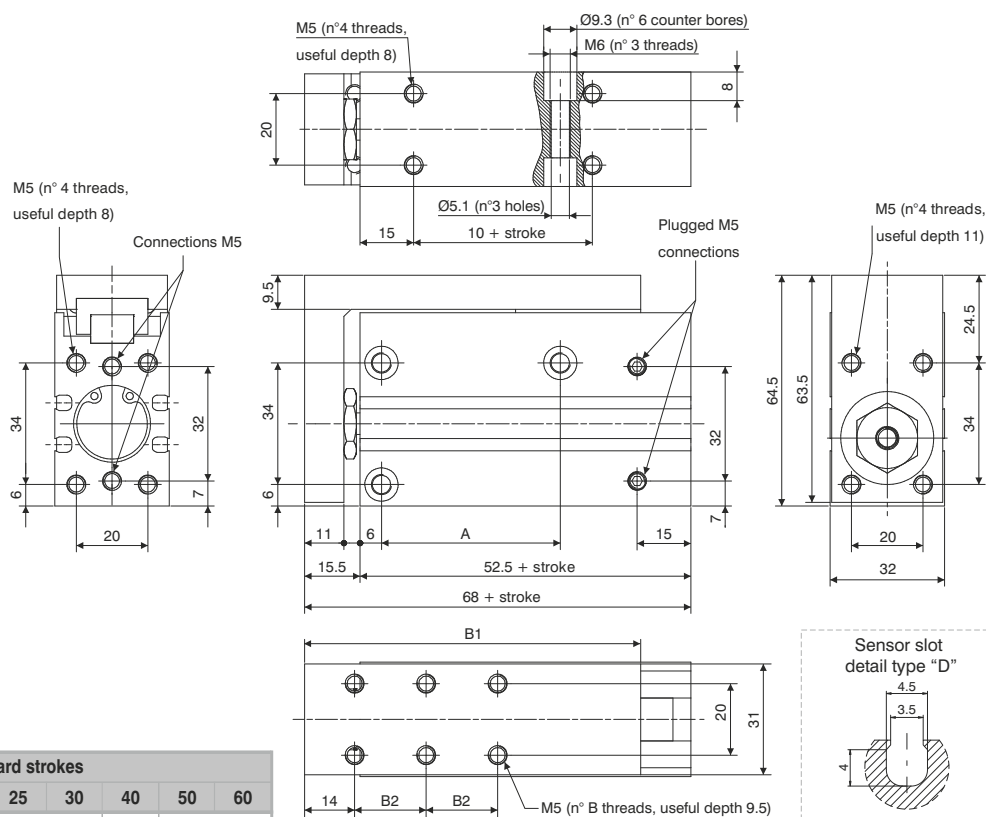
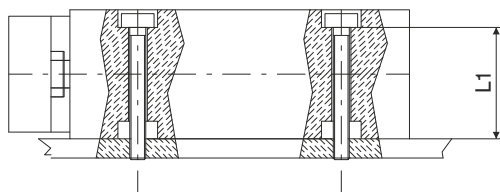


Table of dimensions

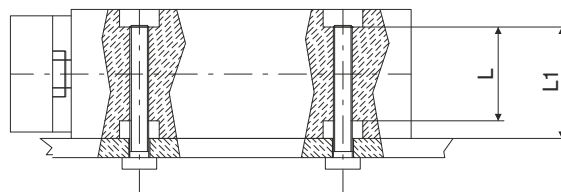
	Standard strokes								
	5	10	15	20	25	30	40	50	60
A	20		25		40		50	70	
B1	64		74		84		94	104	114
B2	10		20		30		20	25	30
B	4						6		
Weight (gr.)	440	455	490	505	540	560	600	660	700

LATERAL (THROUGH SCREW)



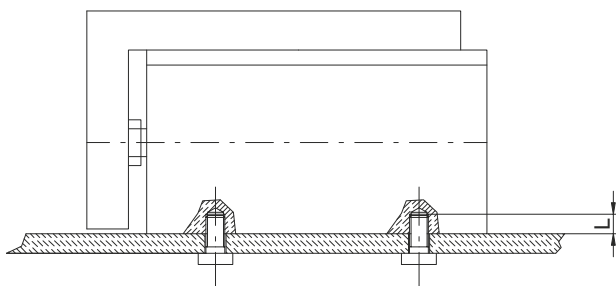
	SCREW	Maximum torque (Nm)	L1
Ø10	M4	2.5	15.6
Ø16	M4	2.5	20.6
Ø20	M5	5.1	24

LATERAL (THREADED HOLE)



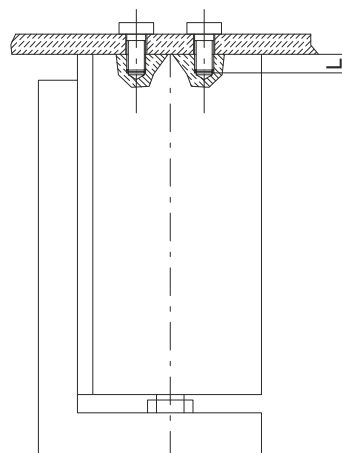
	SCREW	Maximum torque (Nm)	L1	L
Ø10	M5	5.1	15.6	11.2
Ø16	M5	5.1	20.6	16.2
Ø20	M6	8.1	24	16

VERTICAL (THREADED HOLE)



	SCREW	Maximum torque (Nm)	L
Ø10	M4	2.5	6
Ø16	M4	2.5	6
Ø20	M5	5.1	8

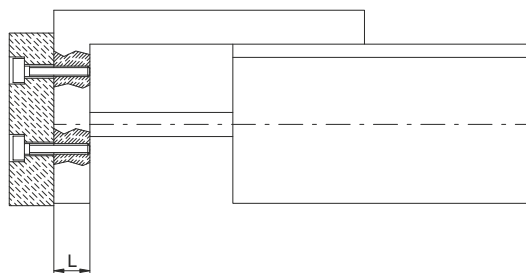
AXIAL (THREADED HOLE)



	SCREW	Maximum torque (Nm)	L
Ø10	M4	2.5	6
Ø16	M4	2.5	6
Ø20	M5	5.1	8

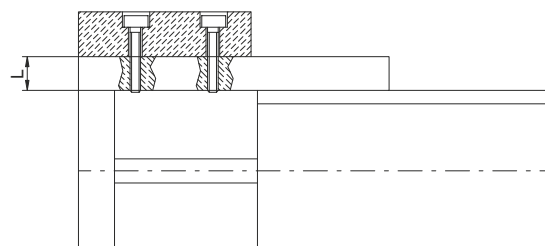
LOAD

FRONTAL MOUNTING

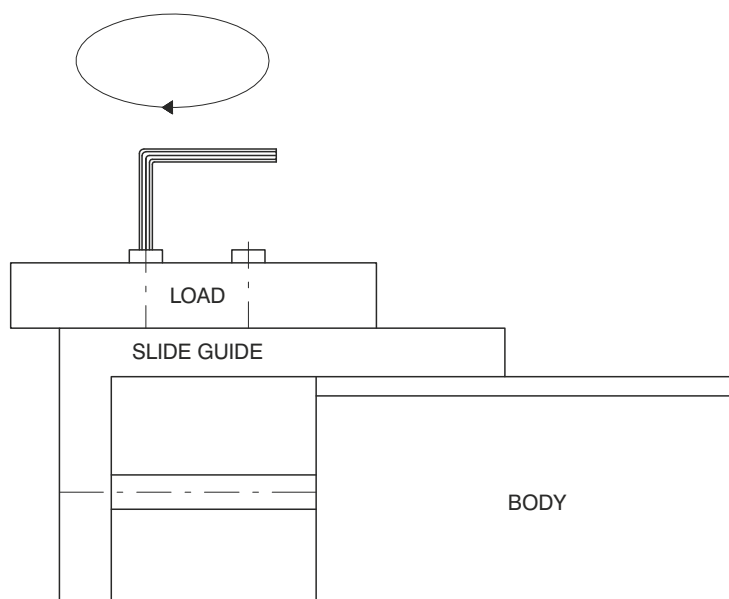


	SCREW	Maximum torque (Nm)	L
Ø10	M4	2.5	7.5
Ø16	M4	2.5	10
Ø20	M5	5.1	11

BACK MOUNTING

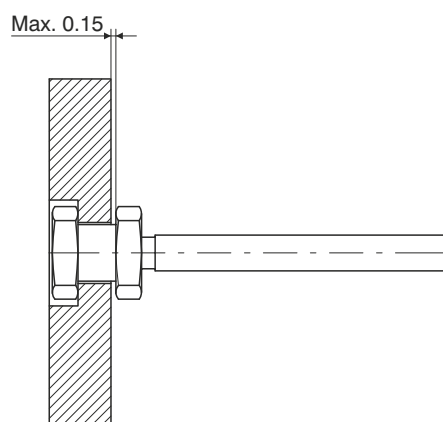


	SCREW	Maximum torque (Nm)	L
Ø10	M4	2.5	8
Ø16	M4	2.5	9
Ø20	M5	5.1	9.5



ATTENTION : Slide must be blocked before fixing the load
this operation should not be done by blocking the body as the
guide could get damaged.

CONNECTION BETWEEN PLATE AND ROD



The fluctuating connection, maximum clearance 0.15mm as indicated by the arrow

Plate deviation (arrow) when the load is applied on the spot indicated with the arrow and the unit completely extended

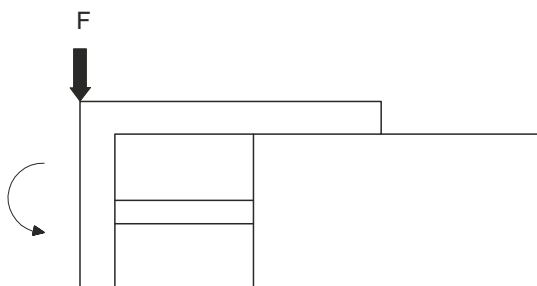
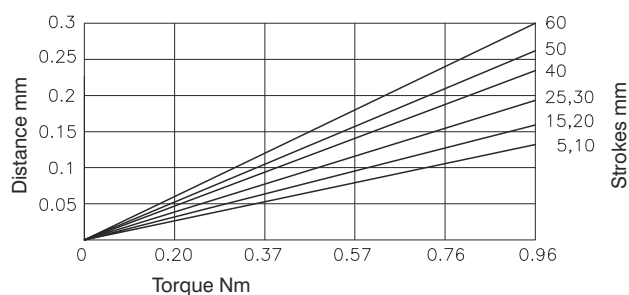


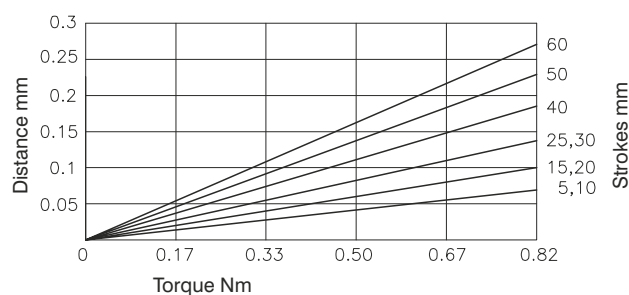
Plate deviation (arrow) when the load is applied on the spot indicated with the arrow and the unit completely extended



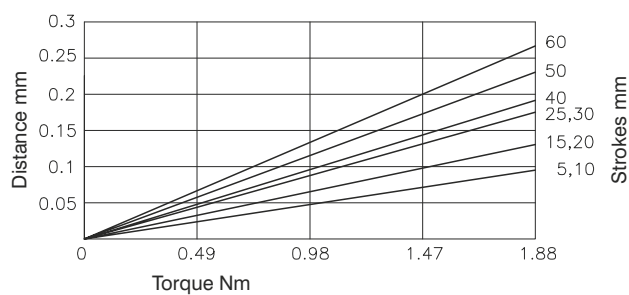
Ø10



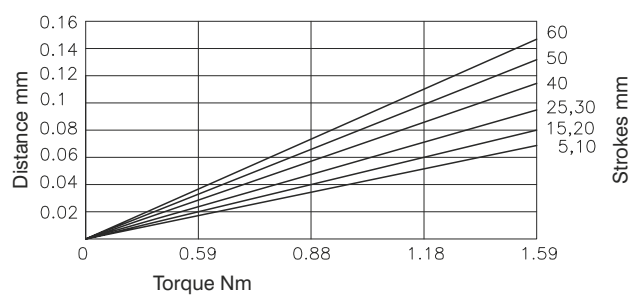
Ø10



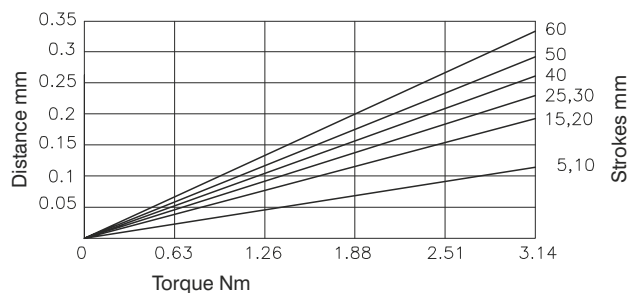
Ø16



Ø16



Ø20



Ø20

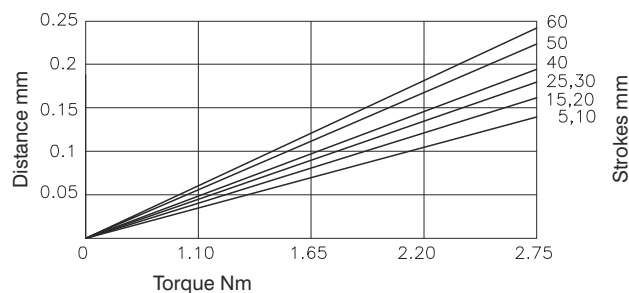
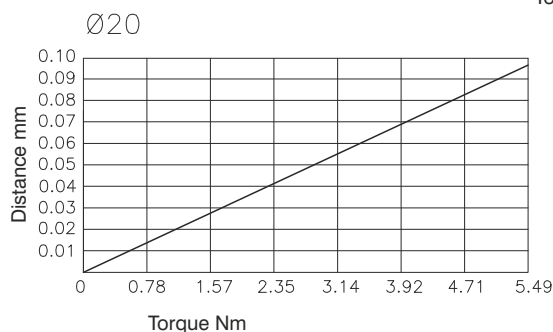
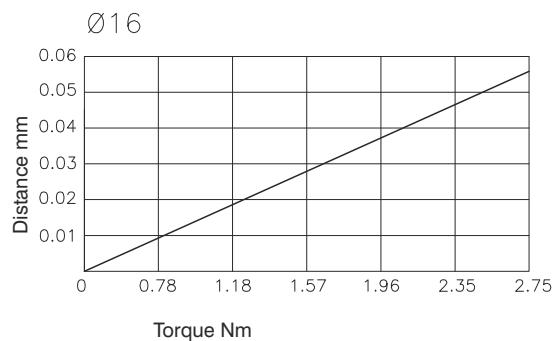
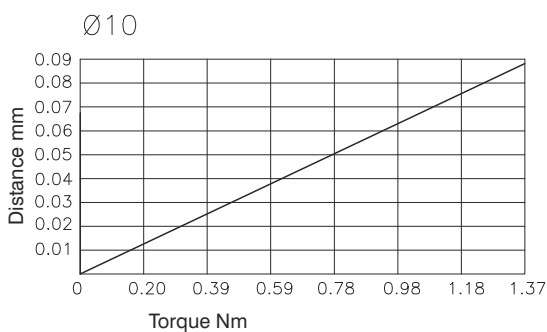
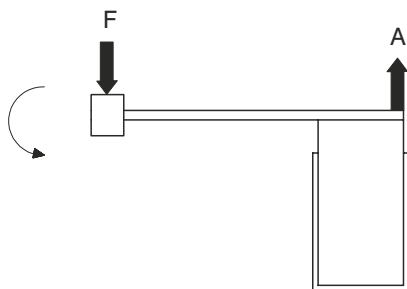


Plate deviation (compared to A) when the load is applied on the spot indicated with the arrow and the unit completely extended

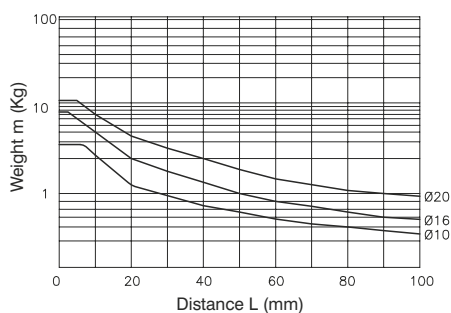


MOUNTING POSITION	VERTICAL			HORIZONTAL								
MAX. SPEED (mm/sec.)	100	200	300	100			200			300		
Load eccentricity				50	100	200	50	100	200	50	100	200
Selection graphs	1	2	3	4	5	6	7	8	9	10	11	12

Selection graphs 1 - 3 (vertical mounting)

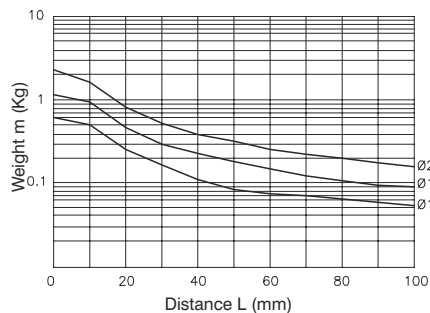
Drawing 1

Maximum speed 100 mm/s or lower



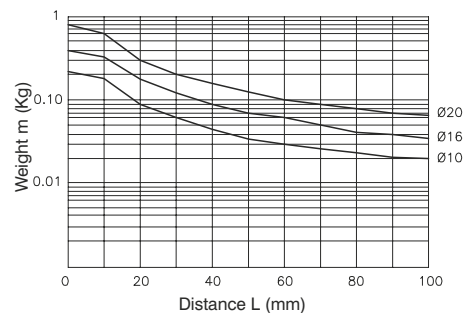
Drawing 2

Maximum speed 300 mm/s or lower



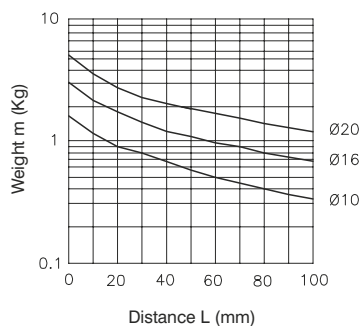
Drawing 3

Maximum speed 500 mm/s or lower

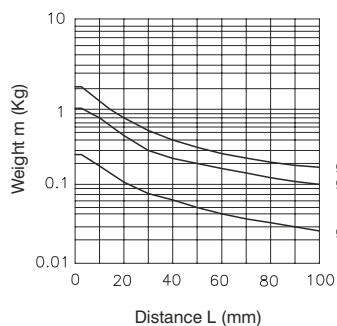


Selection graphs 4 - 12 (horizontal mounting)

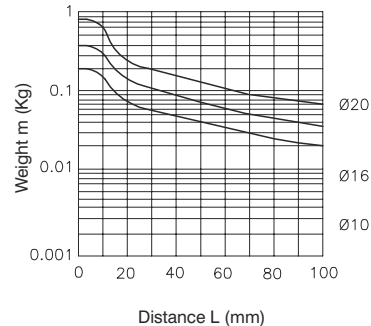
Drawing 4 load eccentricity 50mm
Maximum speed 100 mm/s or lower



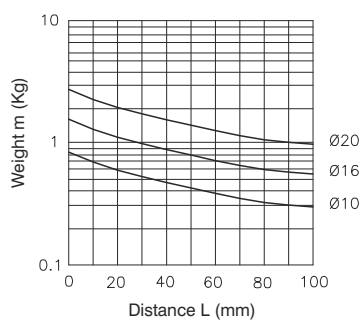
Drawing 7 load eccentricity 50mm
Maximum speed 300 mm/s or lower



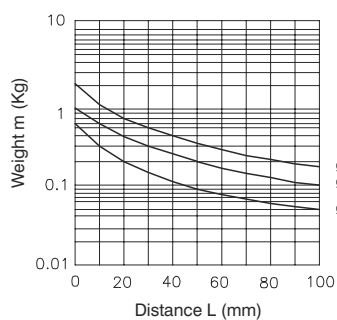
Drawing 10 load eccentricity 50mm
Maximum speed 500 mm/s or lower



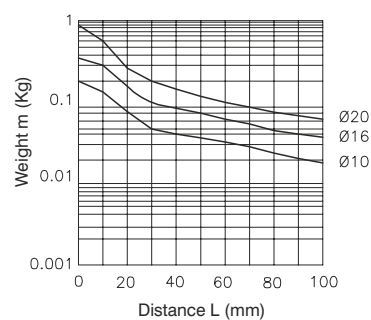
Drawing 5 load eccentricity 100mm
Maximum speed 100 mm/s or lower



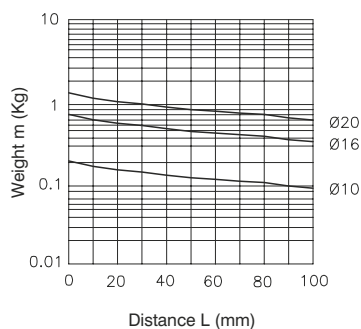
Drawing 8 load eccentricity 100mm
Maximum speed 300 mm/s or lower



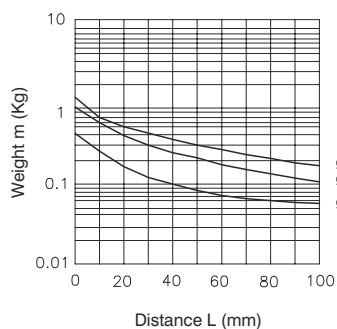
Drawing 11 load eccentricity 100mm
Maximum speed 500 mm/s or lower



Drawing 6 load eccentricity 200mm
Maximum speed 100 mm/s or lower



Drawing 9 load eccentricity 200mm
Maximum speed 300 mm/s or lower



Drawing 12 load eccentricity 200mm
Maximum speed 500 mm/s or lower

