

## Series 6700

### Guide cylinders

Coding: 6700.Ø.⊙

BORE		STROKE	
Ø	10 = Ø10	⊙	5 = 5 mm
	16 = Ø16		10 = 10 mm
	20 = Ø20		15 = 15 mm
	25 = 25 mm		
	30 = 30 mm		
	40 = 40 mm		
	50 = 50 mm		
	60 = 60 mm		



### Standard strokes

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

### Operational characteristics

Cushioning	with elastic bumper
Fluid	filtered and preferably lubricated air or not (if lubricated the lubrication must be continuous)
Working pressure (bar)	1,2 ... 7
Temperature °C	-5 ... +70

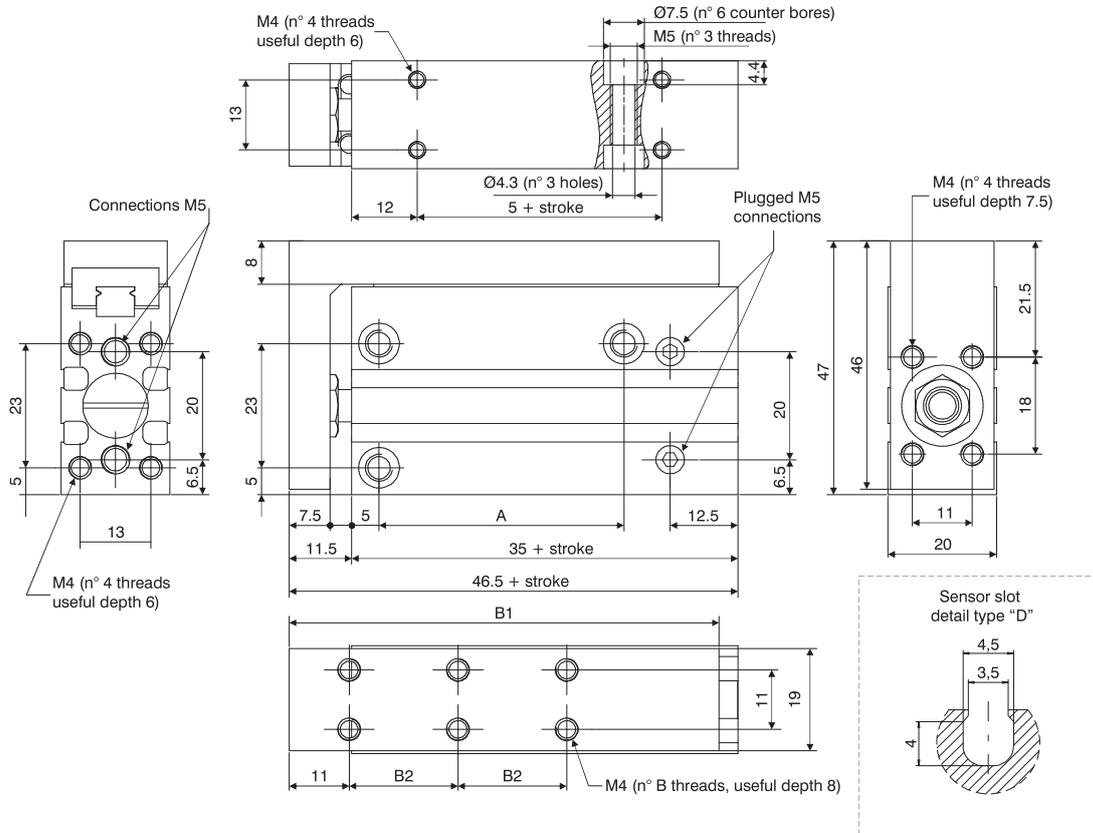
### Construction characteristics

Body	anodized aluminium
Piston rod	stainless steel
Piston	aluminium
Piston rod bushing	aluminium
Rear end cap	anodized aluminium
Seals	oil resistant NBR rubber
Plate	anodized aluminium

### Theoretical force

Bore	Effective area (mm²)	Force (N)						
		2	3	4	5	6	7	
Ø10	Out	28,3	5,7	8,5	11,3	14,2	17	19,8
	In	21,2	4,2	6,4	8,5	10,6	12,7	14,8
Ø16	Out	78,5	15,7	23,6	31,4	39,3	47,1	55
	In	66	13,2	19,8	26,4	33	39,6	46,2
Ø20	Out	314	62,8	94,2	125,6	157	188,4	219,8
	In	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	50	60	
A		14		24		30		45		60
B1		49		59		69		79		99
B2		10		20		30		20		30
B				4				6		
Weight (g)	117	125	140	148	162	170	192	215	238	

Overall dimensions - Ø16

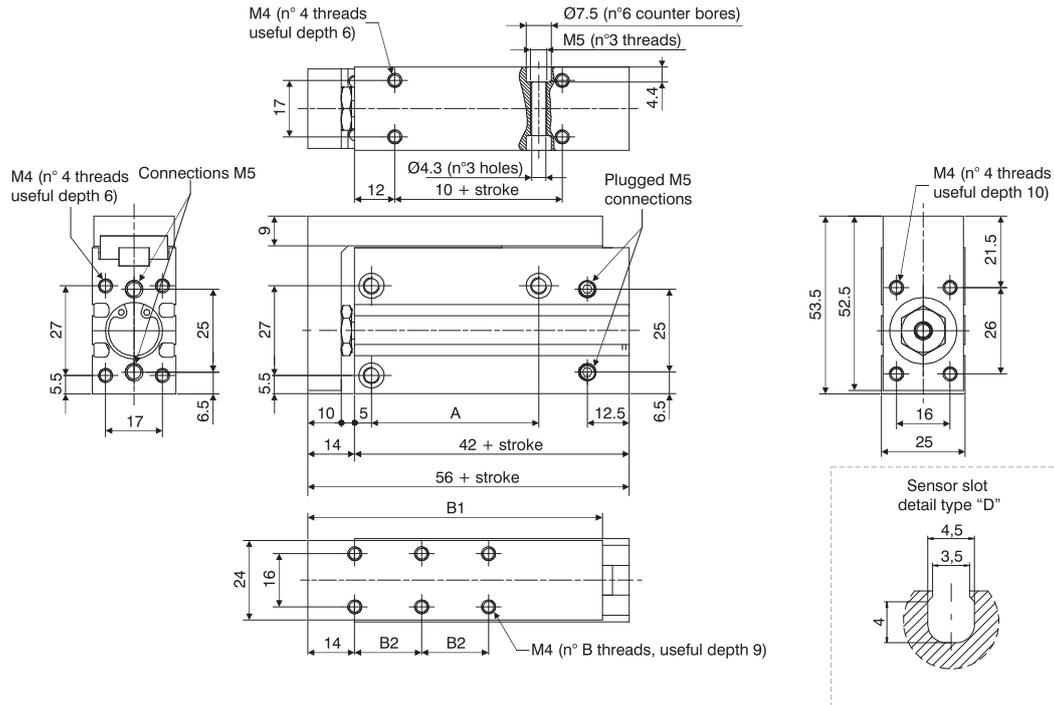


Table of dimensions

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

Overall dimensions - Ø20

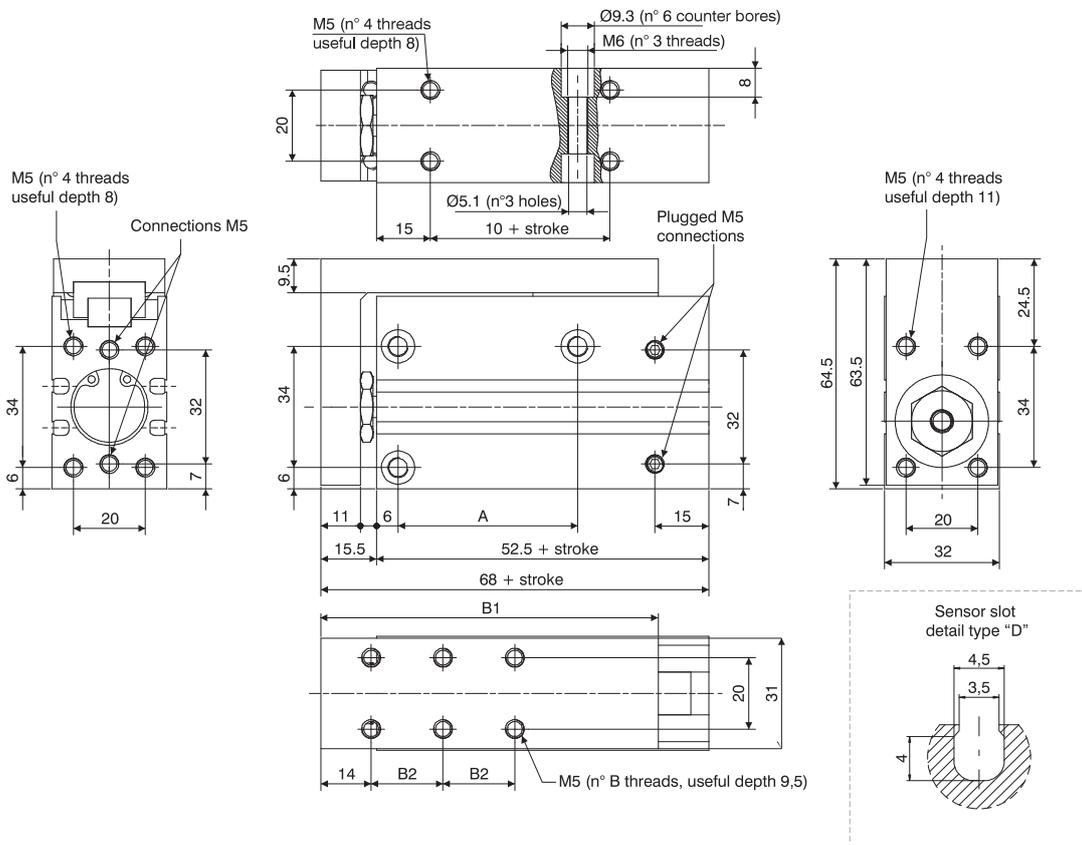
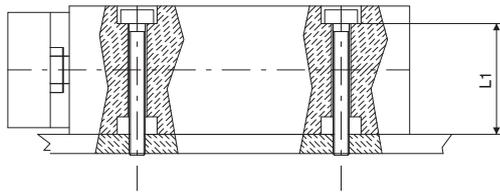


Table of dimensions

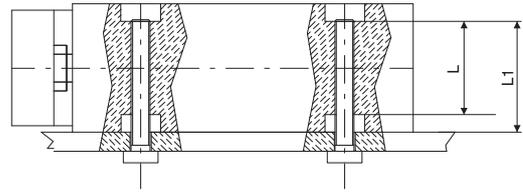
	Standard strokes									
	5	10	15	20	25	30	40	50	60	
A		20		25		40		50		70
B1		64		74		84		94		114
B2		10		20		30		20		30
B				4				6		
Weight (g)	440	455	490	505	540	560	600	660	700	

Fixing - Load

LATERAL (THROUGH SCREW)



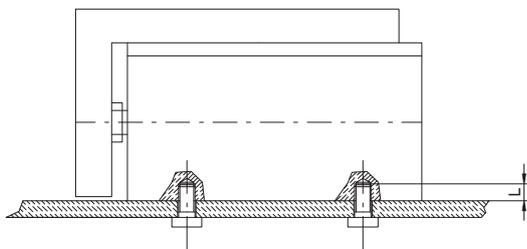
LATERAL (THREADED HOLE)



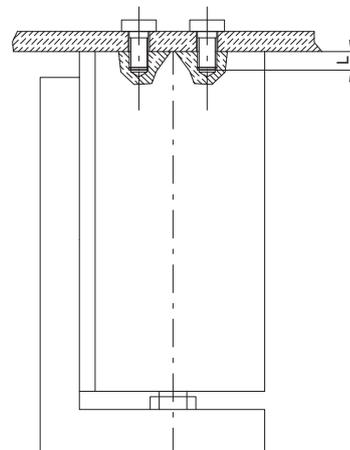
Screw	Maximum torque (Nm)	L1
Ø10 M4	2,5	15,6
Ø16 M4	2,5	20,6
Ø20 M5	5,1	24

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)



AXIAL (THREADED HOLE)

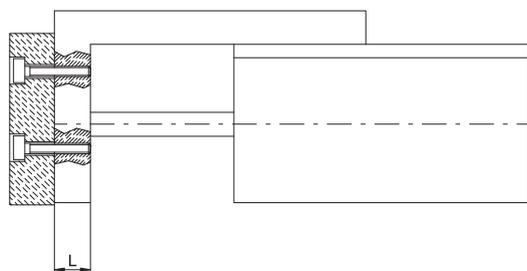


Screw	Maximum torque (Nm)	L
Ø10 M4	2,5	6
Ø16 M4	2,5	6
Ø20 M5	5,1	8

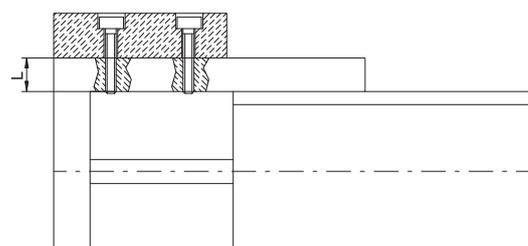
Screw	Maximum torque (Nm)	L
Ø10 M4	2,5	6
Ø16 M4	2,5	6
Ø20 M5	5,1	8

Force (N)

FRONTAL MOUNTING



BACK MOUNTING

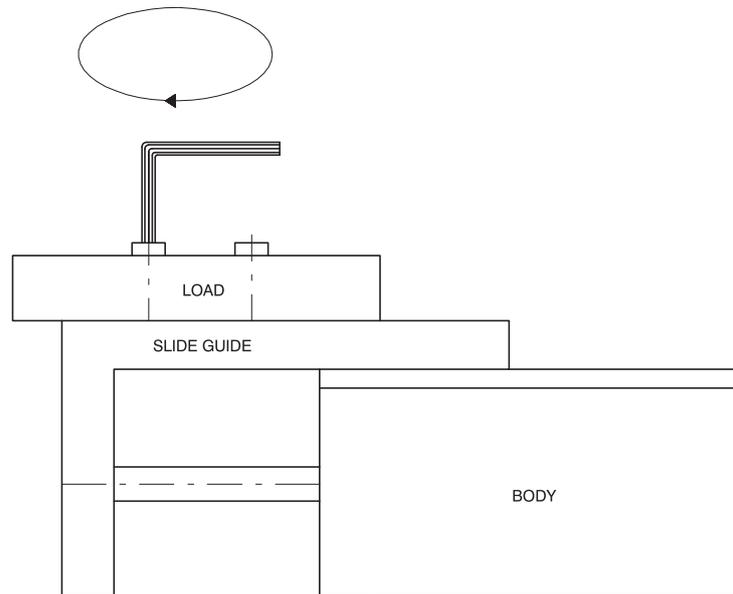


Screw	Maximum torque (Nm)	L
Ø10 M4	2,5	7,5
Ø16 M4	2,5	10
Ø20 M5	5,1	11

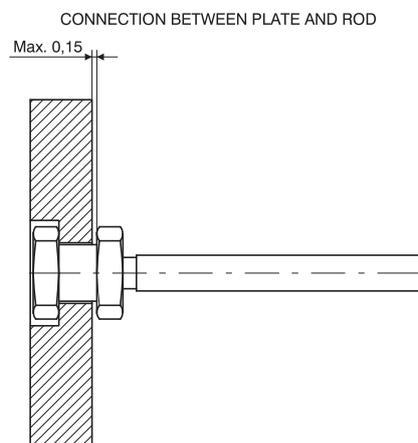
Screw	Maximum torque (Nm)	L
Ø10 M4	2,5	8
Ø16 M4	2,5	9
Ø20 M5	5,1	9,5

PNEUMATIC ACTUATION

Fixing - Load



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.



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

### Plate deflection graphs

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

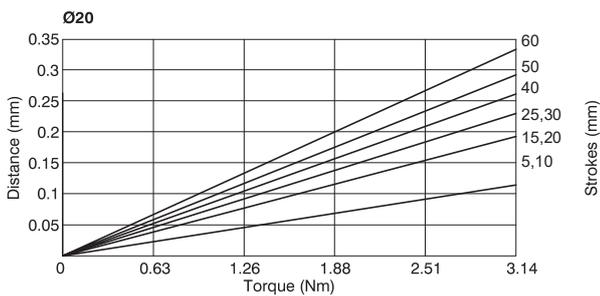
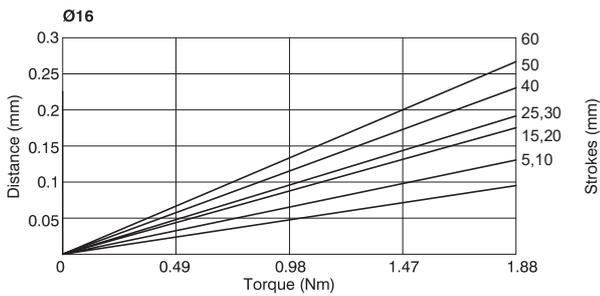
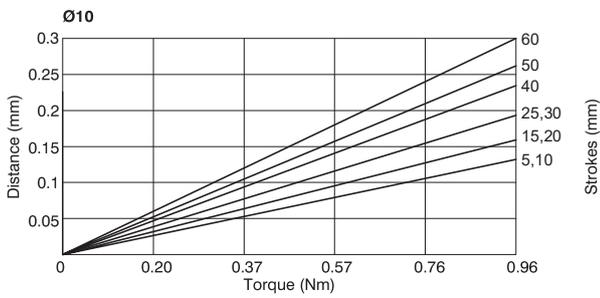
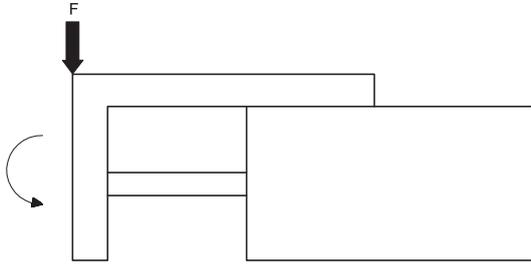
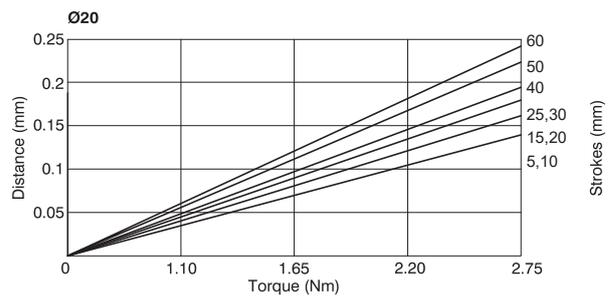
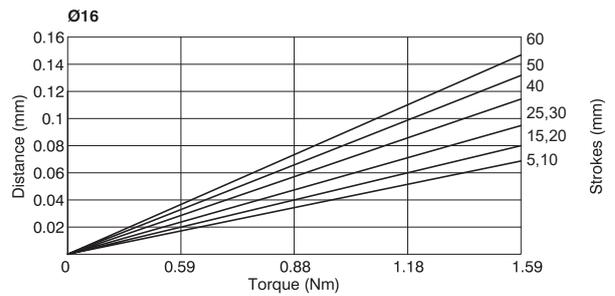
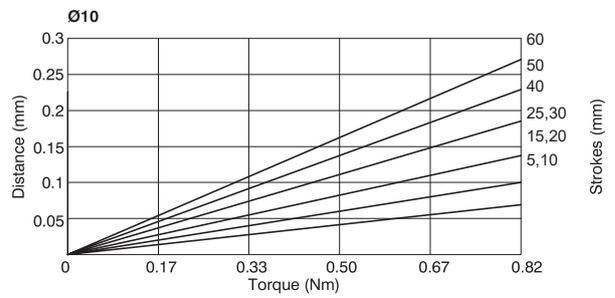
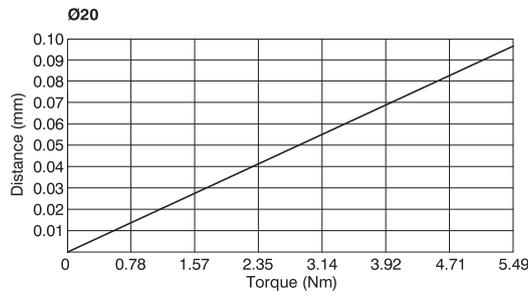
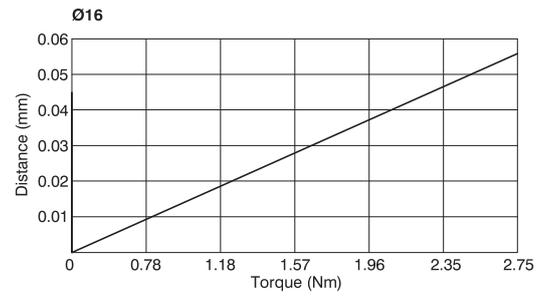
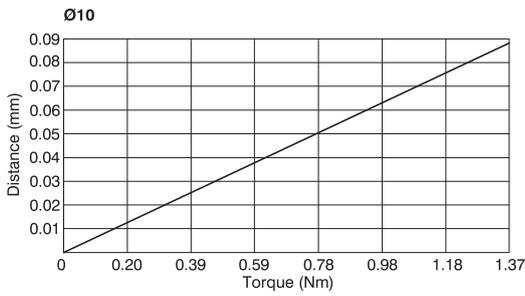
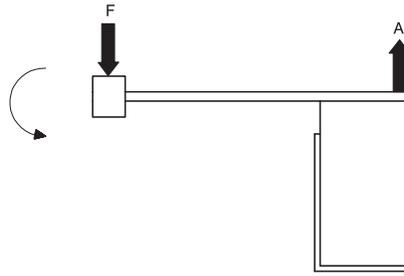


Plate deviation (arrow) when the load is applied on the spot indicated with the arrow and the unit completely extended



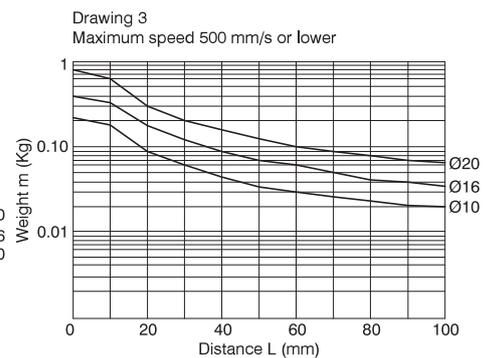
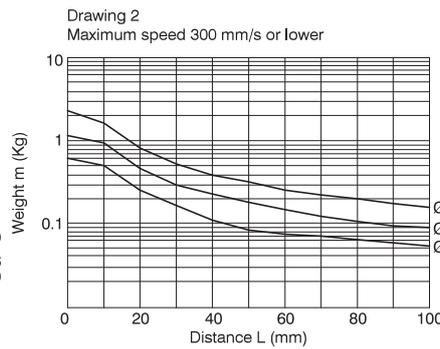
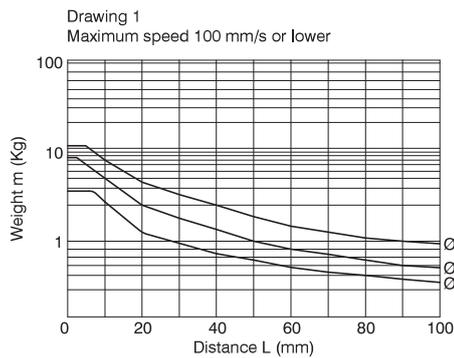
### Plate deflection graphs outer stroke - selection graphs

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



	VERTICAL			HORIZONTAL								
MOUNTING POSITION												
MAX. SPEED (mm/s)	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)

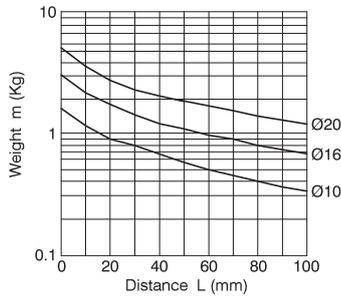




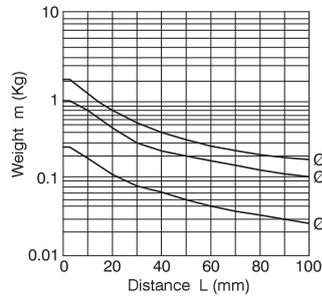
Selection graphs

Selection graphs 4 - 12 (horizontal mounting)

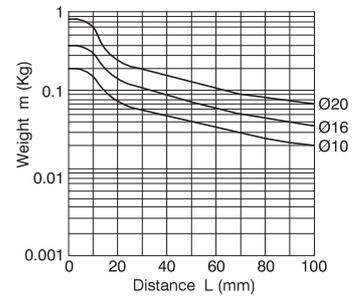
Drawing 4 load eccentricity 50 mm  
Maximum speed 100 mm/s or lower



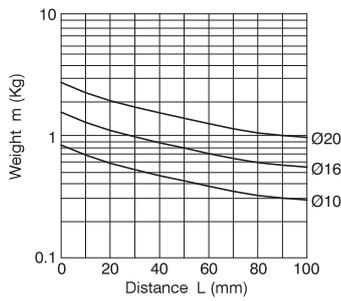
Drawing 7 load eccentricity 50 mm  
Maximum speed 300 mm/s or lower



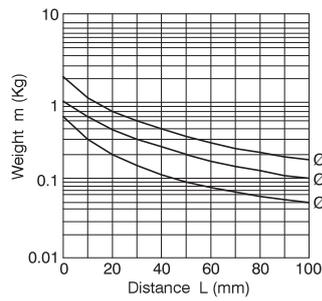
Drawing 10 load eccentricity 50 mm  
Maximum speed 500 mm/s or lower



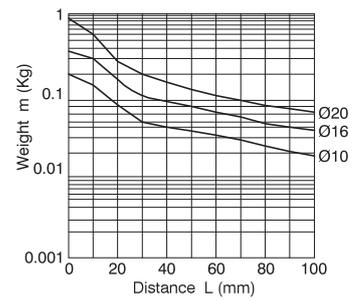
Drawing 5 load eccentricity 100 mm  
Maximum speed 100 mm/s or lower



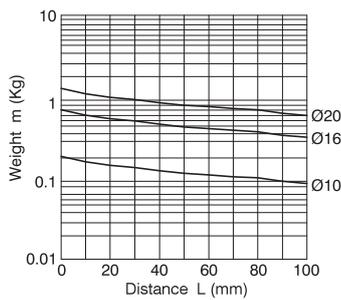
Drawing 8 load eccentricity 100 mm  
Maximum speed 300 mm/s or lower



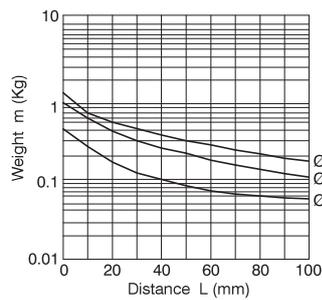
Drawing 11 load eccentricity 100 mm  
Maximum speed 500 mm/s or lower



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



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



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

