

STEP-1

Confirm that the load moment in the full stroke length is within the allowable value in each direction.

- Direction of moment and length to the center of the guide (X)

Direction	Fig.	Formula
M1 moment		$M1 = L1 \times W$
M2 moment		$M2 = L2 \times W$
M3 moment		$M3 = L3 \times W$

- Allowable moment

Model No.	M1	M2	M3
LCM-*-4.5	0.24	0.22	0.29
LCM-*-6	0.28	0.23	0.34
LCM-*-8	0.28	0.38	0.34

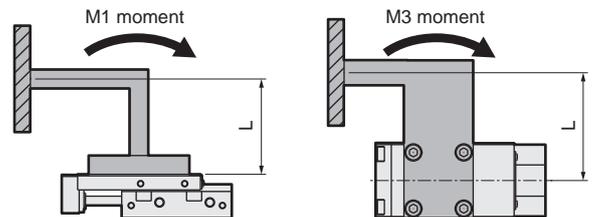
N·m

- Length to the center of the guide

Model No.	Stroke length	X
LCM-*-4.5	5	35
	10	
LCM-*-6	5	36.5
	10	
	15	41.5
	20	
	30	
LCM-*-8	5	36.5
	10	
	15	46.5
	20	
	30	

mm

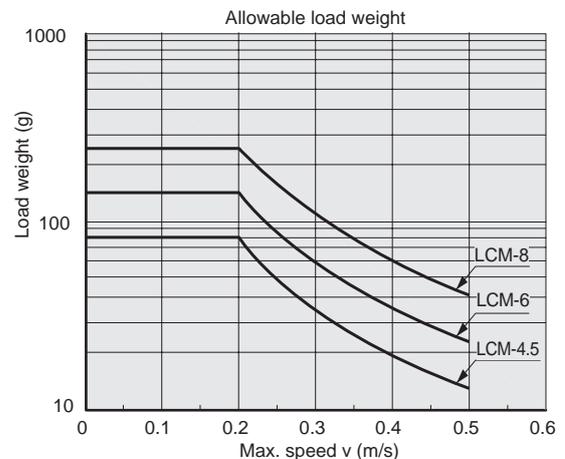
* Note that if a workpiece makes contact at a point off the guide during the stroke, the thrust will cause a large moment.



STEP-2

Confirm that the kinetic energy obtained from the load weight of the cylinder and the piston speed is within the allowable absorbed energy.

Bore size	ø4.5	ø6	ø8
Allowable energy absorption J	1.59×10^{-3}	2.83×10^{-3}	5.02×10^{-3}



SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
4GA/B
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending