

Series CA2

Mass/Aluminum Tube (Steel tube)

Bore size (mm)			40	50	63	80	100
Basic mass	Basic style	Aluminum tube	0.86	1.29	1.84	3.10	4.18
		Steel tube	0.92	1.35	1.93	3.30	4.45
	Axial foot style	Aluminum tube	1.05	1.51	2.18	3.77	5.17
		Steel tube	1.11	1.57	2.27	3.97	5.44
	Flange style	Aluminum tube	1.23	1.74	2.63	4.55	6.10
		Steel tube	1.29	1.80	2.72	4.75	6.37
	Single clevis style	Aluminum tube	1.09	1.63	2.47	4.21	5.96
		Steel tube	1.15	1.69	2.56	4.41	6.23
	Double clevis style	Aluminum tube	1.13	1.72	2.63	4.50	6.48
		Steel tube	1.19	1.78	2.72	4.70	6.75
Trunnion style	Aluminum tube	1.22	1.77	2.64	4.65	6.46	
	Steel tube	1.28	1.83	2.73	4.85	6.73	
Add'l mass by each 50 mm stroke	All mounting brackets	Aluminum tube	0.20	0.25	0.31	0.46	0.58
		Steel tube	0.28	0.35	0.43	0.70	0.87
Accessory	Single knuckle		0.23	0.26	0.26	0.60	0.83
	Double knuckle (With pin)		0.37	0.43	0.43	0.87	1.27

Calculation: (Example) **CA2L40-100** (Axial foot style, ø40, 100st)

- Basic mass 1.05 kg
 - Additional mass 0.20/50st
 - Cylinder stroke 100st
- $$1.05 + 0.20 \times 100 / 50 = 1.45 \text{ kg}$$

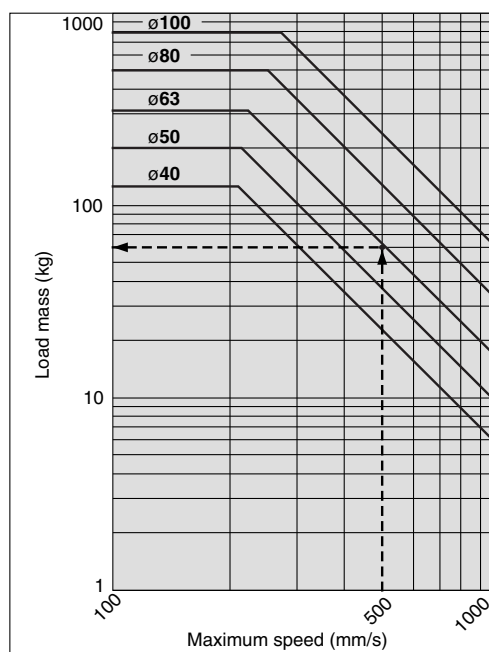
Mounting Bracket

Bore size (mm)	40	50	63	80	100
Axial foot*	CA2-L04	CA2-L05	CA2-L06	CA2-L08	CA2-L10
Flange	CA2-F04	CA2-F05	CA2-F06	CA2-F08	CA2-F10
Single clevis	CA2-C04	CA2-C05	CA2-C06	CA2-C08	CA2-C10
Double clevis**	CA2-D04	CA2-D05	CA2-D06	CA2-D08	CA2-D10

* When axial foot brackets are used, two pieces should be ordered for each cylinder.

** Double clevis type is packed with clevis pin, flat washer and cotter pin.

Allowable Kinetic Energy



(Example) Find the upper limit of rod end load when an air cylinder of ø63 is operated at 500 mm/s.
From a point indicating 500 mm/s on the axis of abscissas, extend a line upward and find a point where it intersects with a line for the 63 mm bore size. Extend a line from the intersection to the left and find a load mass 60 kg.