

Features:

Absorb impact kinetic energy, avoid mechanical jolts and reduce mechanical damages to secure the precision of machine parts and extend the life span of machines.

Compact design allows for high energy absorption in confined spaces.

Threaded outer bodies with accessories for a variety of mounting arrangements.

Available in adjustable and self-compensating models, multiple damping characteristics.

Accommodates linear, rotational and hinged loading.



Application precaution:

The pressure for cylinders must be lower than 6 kg/cm^2

The cylinder speed must be lower than 0.5 m/sec

Load capacity must be less than $1/2$ cylinder thrust force.

" " means better selection, " " means applicable but very close to the maximum bearable thrust.

Sizing table provides approximate calculation for reference.

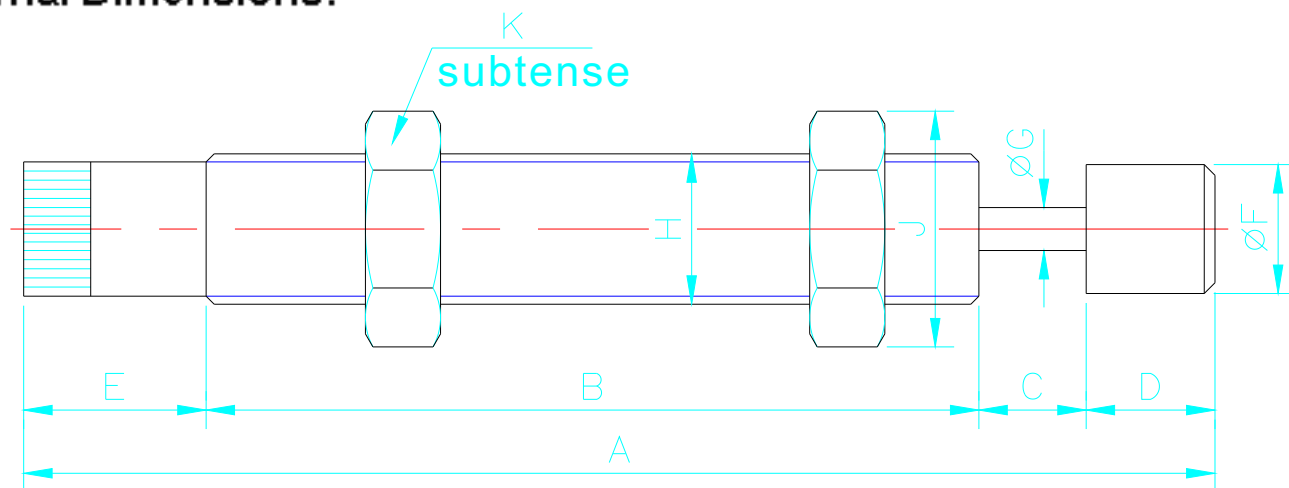
The accurate sizing can be calculated from the equations.

Sizing Table:

Model/Cyl. bore	ø12	ø16	ø20	ø25	ø32	ø40	ø50	ø63	ø80	ø100	ø125
SA14											
SA20											
SA24											
SA25											
SA36											
SA48											

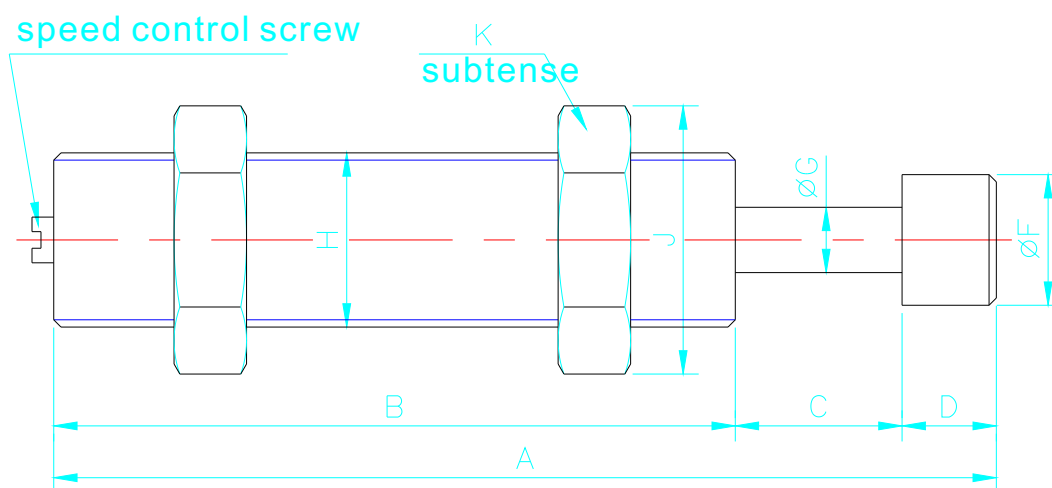
Model	Stroke	Maximum impact velocity	Maximum Load capacity	Temperature	Maximum Absorbed energy	Weight
SA14	10mm	2m/s	0.3kgf-m	0-80°C	50kgf	95g
SA20	16mm	2m/s	1.0kgf-m	0-80°C	130kgf	200g
SA24	22mm	2m/s	7.5kgf-m	0-80°C	250kgf	320g
SA25	23mm	2m/s	7.5kgf-m	0-80°C	250kgf	360g
SA36	35mm	2m/s	25kgf-m	0-80°C	500kgf	900g
SA48	50mm	2m/s	50kgf-m	0-80°C	1000kgf	1900g

External Dimensions:



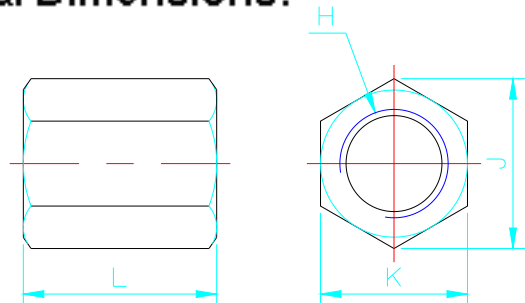
Model	Stroke	A	B	C	D	E	F	G	H	I	J	K
SA14	10mm	111	72	10	12	17	ø12	ø4	M14x1.5	6	21.9	19
SA20	16mm	122	76	16	13	17	ø18	ø6	M20x1.5	8	30	26
SA25	23mm	140	86	24	13	17	ø18	ø9	M25x1.5	10	37	32

External Dimensions:



Model	Stroke	A	B	C	D	F	G	H	I	J	K
SA24	22	130	94	23	13	18	ø9	M24x1.5	10	37	32
SA36	35	173	121	38	14	20	ø12	M36x1.5	12	53	46
SA48	50	223	150	57	16	25	ø14	M48x1.5	15	65	65

External Dimensions:



Model	H	J	K	L
SA14	M14x1.5	21.9	19	25
SA20	M20x1.5	30	26	32
SA24	M24x1.5	37	32	40
SA25	M25x1.5	37	32	40
SA36	M36x1.5	53	46	70