



C-JAC INDUSTRIAL CO.,LTD.(TaiWan)



C-JAC INDUSTRIAL CO.,LTD.(ShangHai)



C-JAC INDUSTRIAL CO.,LTD.(SuZhou)



C-JAC INDUSTRIAL CO.,LTD.

SHOCK ABSORBERS

CJAC

SHOCK ABSORBERS

Outstanding Motion Controls



10 Shock absorber

39 Shock absorber for log cabin

40 Hydraulic speed controller

44 Pilot check valve

46 Heavy duty shock absorber

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C-JAC INDUSTRIAL CO., LTD.



C-JAC Industrial Co., Ltd. (Taiwan) was founded in 1987. Presently, this group has three plants and five offices with more than 200 employees. Its major products include shock absorber, hydraulic speed controller and pilot check valve, etc. In addition to focusing on domestic market, starting from 1999, this company also extended its market to the overseas market, and DongGuan plant and Shanghai's Qingpu plant were also set up at that moment. In order to reinforce this company's R&D capability and to expand its capability to supply the international market, C-JAC has founded in 2005 its head-plant at Taichung Industrial Park so that it can keep up with the international trend and lead this company to get to the world plant scale.

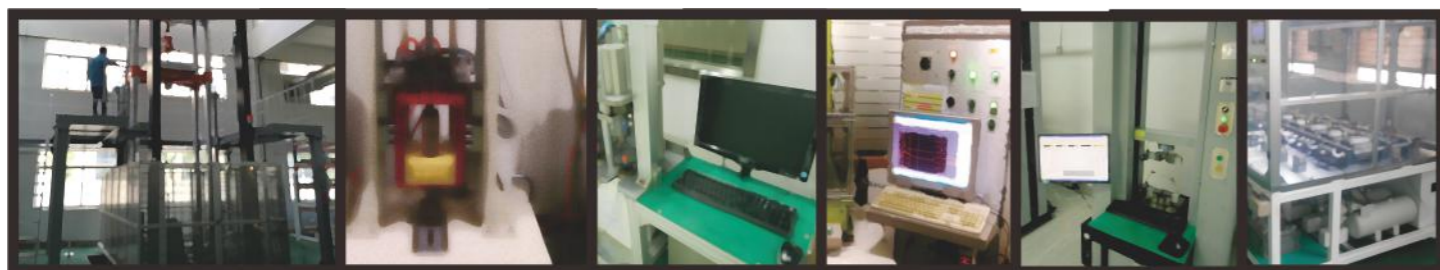
C-JAC Technology Co., Ltd. (Suzhou) launched its production in the autumn of 2013. At the same time, the R&D and manufacturing capability was also reinforced to be used as index of other plants to enhance the depth and breadth of C-JAC group continuously.

It has been more than 30 years since the foundation of C-JAC Industrial Co., Ltd. (Taiwan), during this period of time, it not only improved itself continuously, but also set up its own brand, C-JAC, meanwhile, it continued to provide the industry with components of excellent quality and reasonable price, therefore, C-JAC has become an important ring of industry upgrading. Moreover, C-JAC has also played an important role in the international market, C-JAC's business operation concept was always based on "Rooting downwards, extending outwards and going step by step". C-JAC will always follow this spirit to step into the new era.

Sustaining business operation is usually the basis for an enterprise to survive, therefore, the development goal of this company can be reached only through continuous improvement of its product quality, continuous satisfaction of customer's need and continuous enhancement of the production capability of this company. Meanwhile, our development goals are: "Use technology to guide us towards perfection, take quality as number one priority to pursue excellence, use innovation as the power to drive our practical management strategy, and always bear our integrity spirit in mind to treat our customer to get a win-win situation between both sides".

"Customer is number one and quality is of first priority".

CJAC test equipment



Why it is needed to use shock absorber?

Presently, the market competition becomes ever more than before, therefore, speed up of the production schedule is the basis for the survival of an enterprise. The simplest way to enhance the production capacity is to enhance the operation speed of the machine, however, this might easily create too much vibration and noise, and the machine could easily get damaged too, which in turn leads to nonconforming product certification result. Meanwhile, due to the speed up of the operation speed of the machine, too much impact force generated might also greatly reduce the machine's safety, which might lead to uncompensated loss. The industrial shock absorber manufactured by CJAC can reduce vibration and noise generated in the automated machinery, meanwhile, the kinetic energy generated by object in motion can be converted into thermal energy and released into the atmosphere. Meanwhile, in its action, the object is balanced and effectively stopped, and the efficiency and production capacity of the machine is then enhanced. Moreover, the lifetime of the machine is lengthened and the maintenance cost is reduced, machine action is stabilized and product quality is then enhanced. Furthermore, machine operation can become safer and the occurrence probability of the accident can be reduced, meanwhile, work environment becomes more comfortable and personnel's efficiency is then enhanced, finally, the competitive advantage of the enterprise is then enhanced.

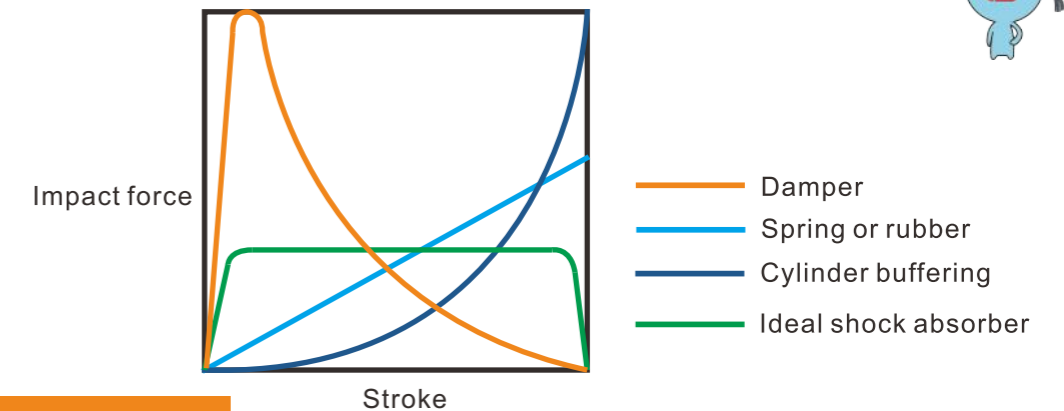
What is the effectiveness of industrial shock absorber?

It can reduce equipment damage and lengthen the lifetime of the machine; it can also reduce the maintenance cost. It can reduce the impact energy and reduce the vibration and noise so that the work environment becomes more comfortable. It can speed up the machinery frequency and enhance the manufacturing efficiency, and it can also enhance the production capacity and consequently enhance the competitive advantage of the enterprise.

What is the buffering effect of shock absorber?

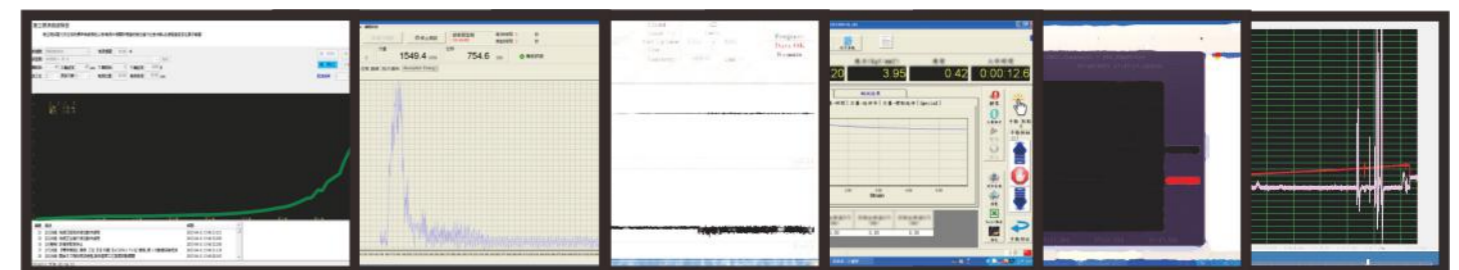
It can resist the impact force without generating any bouncing force, meanwhile, during the impact, the noise is small and the vibration is weak, and the buffering process is very stable. All these advantages cannot be achieved by traditional buffering methods such as spring buffering and PU plastic buffering.

Contrast of buffering effect



CJAC test system

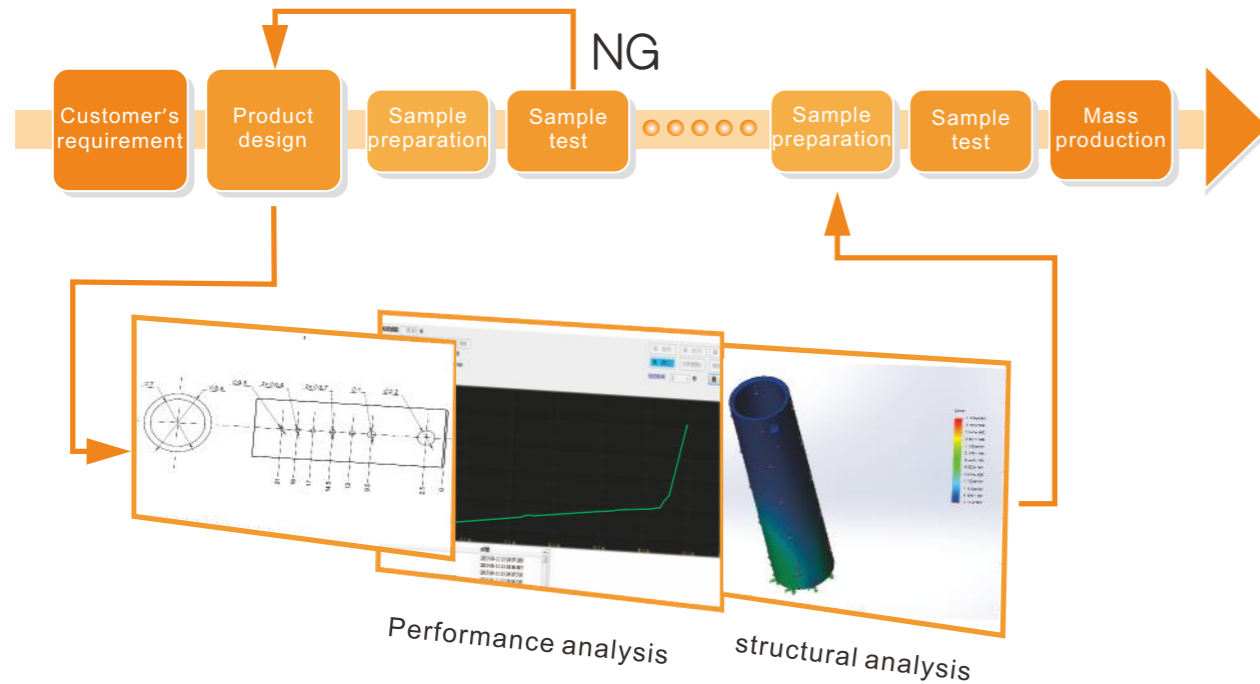
The quality of shock absorber is always the highest guideline of CJAC's business operation. Through continuous breakthrough through industry-school collaboration and the cooperation from professional test manufacturing companies, quality test system for shock absorber was co-developed to satisfy important needs such as operation function test, product lifetime test, new product R&D and safety confirmation of the shock absorbers of CJAC. Meanwhile, all the tests are checked in detail by QA (quality assurance) personnel, therefore, accurate and objective performance data for the shock absorber can be obtained, for example, the size of the impact force, the force-taking stroke of the shock absorber, the energy absorbed, impact speed and force-stroke correlation chart of the shock absorber, etc.



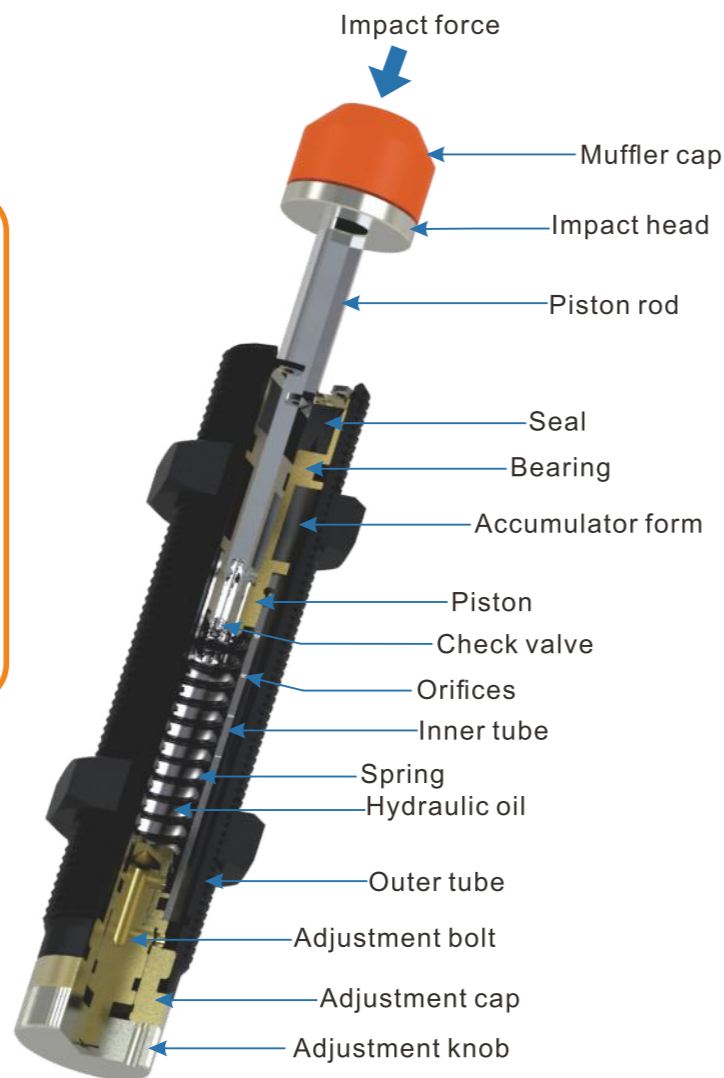
R&D analysis system for CJAC's shock absorber



Model selection



The right figure is a typical shock absorber structure. When the impact head is impacted by external force, it will drive the piston rod to push the piston to squeeze the hydraulic oil in the inner tube, when the hydraulic oil is pressurized, it will flow out from a specifically designed oil release hole on the inner tube, in the same time, it will flow into a pressure storage system. During the flowing process of the hydraulic oil, the shock absorber will generate curve damping effect, which can reduce the speed stably and linearly until it stops. At this moment, the external kinetic energy has been converted into thermal energy of the shock absorber, the thermal energy is then released into the air to realize energy circulation. When the external force disappears, reset spring will reset the piston rod to its starting position to wait for the next action. Based on this principle, shock absorber can stop the object in motion stably and effectively.



Shock absorber

Purchase example

AC 08 06 - 1

AC: Self-compensated type
AD: Adjustable type
ACD: Dual-side buffering type

External diameter (mm) Stroke (mm)

None: with impact head
N: No impact head

-1: high speed
-2: medium speed
-3: low speed
-5: very low speed
-S: AC-S series
-K: AC-K series
(The larger the number, the larger the allowed impact speed)



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- AC-K series
- ACD series
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- Shock absorber for log cabin
- HR series
- PC series
- HD series
- HD series selection
- HD series accessory
- User manual

Adjustable type

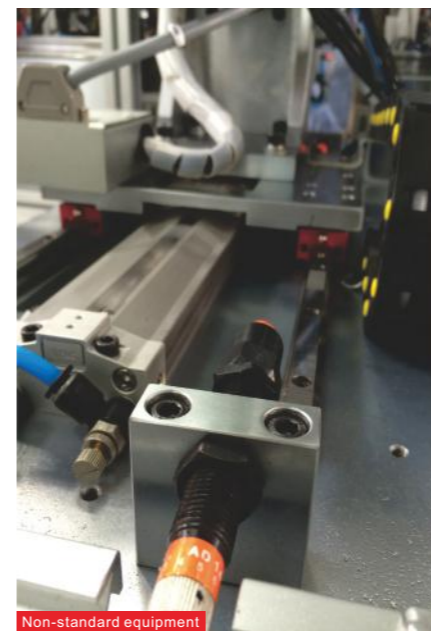
AD series



Characteristics

AD series is of adjustable structure. When facing with different loads and different impact speeds, the adjustment knobs can be adjusted to appropriate scale to absorb perfectly the energy generated by the object. As compared to AC series, AD series has higher energy absorption and wider applicable scope.

- **Material**—— Outer tube: AISI 1215, STKM11A blackening oxidation and Ni-plating treatment to enhance the rust-prevention capability.
Piston rod: Hardened chromium-plating treatment and special sealing part to lengthen its lifetime.
Piston: Highly wearing-resistant material is adopted to guarantee long and stable buffering effect.
- **Speed range**——0.3 ~ 4.5m/s
- **Temperature range**—— -10 ~ +80°C
- **Installation method**—— CJAC has provided several installation methods such as NUT and positioning stop nut (SC) and angle adaptor (SLA). Besides, customized can be made based on your need.
- **RoHS certification**—— AD1410, AD1425, AD2016, AD2025, AD2525, AD2540, AD2550, AD2580, AD3625, AD3650, All the above products have been passed RoHS certification
- **Special need**—— CJAC can make customized spec according to your usage situation.



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Performance parameter

Model number	Stroke (mm)	Max. Nm Per Cycle (Et)	Max. Nm Per Hour (Etc)	Max. effective Mass (Me) Kg	Max. impact speed (v)m/s	Without impact head	With impact head	Flange (F)	Stop collar (SC)	Operating temperature (°C)	Weight (g)
AD1210	10	12	22,000	35	3.0	o	o	—	o	-10~+80	66
AD1410	10	20	25,000	80	3.0	o	o	—	o	-10~+80	90
AD1415	15	24	26,000	100	3.0	o	o	—	o	-10~+80	120
AD1425	25	28	27,500	140	3.0	o	o	—	o	-10~+80	194
AD1612	12	22	27,500	130	3.0	o	o	—	o	-10~+80	200
AD2016	16	28	27,500	200	3.0	o	o	—	o	-10~+80	230
AD2016-C	16	28	28,500	200	3.5	o	o	—	o	-10~+80	230
AD2020	20	34	29,000	298	3.5	o	o	—	o	-10~+80	235
AD2025	25	39	30,000	312	3.5	o	o	—	o	-10~+80	240
AD2050	50	69	52,000	420	3.5	o	o	—	o	-10~+80	330
AD2525	25	85	54,000	400	3.5	o	o	—	o	-10~+80	350
AD2530	30	95	60,000	480	3.5	o	o	—	o	-10~+80	365
AD2540	40	100	80,000	700	3.5	—	o	—	o	-10~+80	455
AD2550	50	120	90,000	720	4.0	o	o	—	o	-10~+80	455
AD2580	80	150	120,000	800	4.0	o	o	—	o	-10~+80	585
AD2725	25	85	54,000	400	3.5	o	o	—	o	-10~+80	403
AD3326	25	195	75,700	1400	3.3	—	o	—	—	-10~+80	482
AD3352	52	385	98,962	2400	3.3	—	o	—	—	-10~+80	708

Figure 1

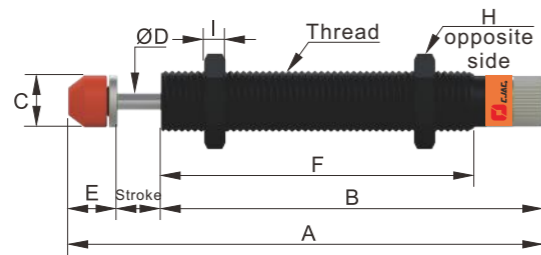
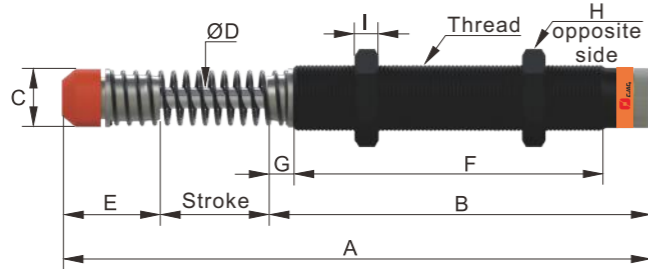


Figure 2



Form parameters

Model number	Thread	Stroke (mm)	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	K mm	Figure
AD1210	M12x1.0	10	90.3	71.7	10.3	3	8.6	57.3	—	14	4	—	—	1
AD1410	M14x1.0 M14x1.5	10	109.7	88.5	12	4	11.2	72.5	—	19	5	—	—	1
AD1415	M14x1.0 M14x1.5	15	128.2	102	12	4	11.2	86	—	19	5	—	—	1
AD1425	M14x1.0 M14x1.5	25	153.2	117	12	4	11.2	101	—	19	5	—	—	1
AD1612	M16x1.0 M16x1.5	12	99	76.5	14	4	11.2	54.9	—	19	6	—	—	1
AD2016	M20x1.5 M20x2.0	16	148.3	117	17.8	6	15.3	101	—	26	7	—	—	1
AD2016-C	M20x1.5	16	127.3	96	17.8	6	15.3	80	—	26	7	—	—	1
AD2020	M20x1.5	20	152.3	117	17.8	6	15.3	101	—	26	7	—	—	1
AD2025	M20x1.5	25	157.3	117	17.8	6	15.3	101	—	26	7	—	—	1
AD2050	M20x1.5	50	239.3	174	17.8	6	15.3	158	—	26	7	—	—	1
AD2525	M25x1.5 M25x2.0	25	162.5	118.5	22	8	19	101	—	32	9	—	—	1
AD2530	M25x1.5 M25x2.0	30	167.5	118.5	22	8	19	101	—	32	9	—	—	1
AD2540	M25x1.5 M25x2.0	40	221.5	144.5	22	8	37	117	10	32	9	—	—	2
AD2550	M25x1.5 M25x2.0	50	247	178	22	8	19	100	—	32	9	22.8	11	3
AD2580	M25x1.5 M25x2.0	80	343.5	244.5	22	8	19	100	—	32	9	22.8	11	3
AD2725	M27x1.5 M27x3.0	25	162.5	118.5	22	8	19	101	—	32	9	—	—	1
AD3326	M33x1.5	26	150.3	110.5	28.5	10	13.8	77.9	19.1	45	11	29.7	16	4
AD3352	M33x1.5	52	217.3	151.5	28.5	10	13.8	118.7	19.1	45	11	29.7	16	4

Figure 3

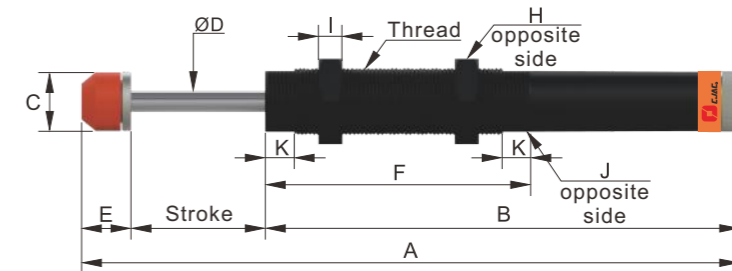
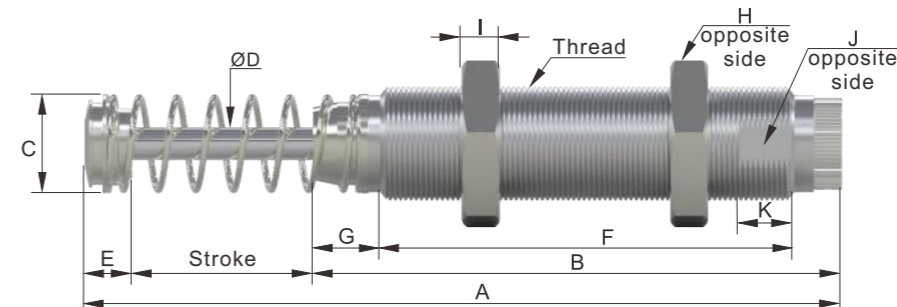


Figure 4



Performance parameter

Model number	Stroke (mm)	Max. Nm Per Cycle (Et)	Max. Nm Per Hour (Etc)	Max. effective Mass (Me) Kg	Max. impact speed (v)m/s	Without impact head	With impact head	Flange (F)	Stop collar (SC)	Operating temperature (°C)	Weight (g)
AD3625	25	150	81,000	1400	3.0	—	o	o	o	-10~+80	955
AD3650	50	300	100,000	2400	3.0	—	o	o	o	-10~+80	1,100
AD4225	25	260	125,000	3,000	3.5	—	o	o	—	-10~+80	1,280
AD4225-W	25	260	125,000	3,000	3.5	—	o	o	—	-10~+80	1,280
AD4250	50	500	150,000	4,000	4.5	—	o	o	—	-10~+80	1,490
AD4250-W	50	500	150,000	4,000	4.5	—	o	o	—	-10~+80	1,490
AD4275	75	750	180,000	6,000	4.5	—	o	o	—	-10~+80	1,710
AD4275-W	75	750	180,000	6,000	4.5	—	o	o	—	-10~+80	1,710
AD64050	50	1,200	150,500	12,727	1.5	—	o	o	—	-10~+80	4,115
AD64050-W	50	1,200	150,000	12,727	1.5	—	o	o	—	-10~+80	4,115
AD64100	100	2,400	200,000	18,181	1.5	—	o	o	—	-10~+80	5,280
AD64100-W	100	2,400	200,000	18,181	1.5	—	o	o	—	-10~+80	5,280
AD64150	150	3,600	250,000	23,636	1.5	—	o	o	—	-10~+80	6,785
AD64150-W	150	3,600	250,000	23,636	1.5	—	o	o	—	-10~+80	6,785
AD85050-W	50	2,300	372,000	16,800	4.3	—	o	o	—	-10~+80	6,370
AD85090-W	90	4,000	652,000	30,000	4.3	—	o	o	—	-10~+80	7,510
AD85125-W	125	5,700	933,000	42,000	4.3	—	o	o	—	-10~+80	8,000

Figure 1

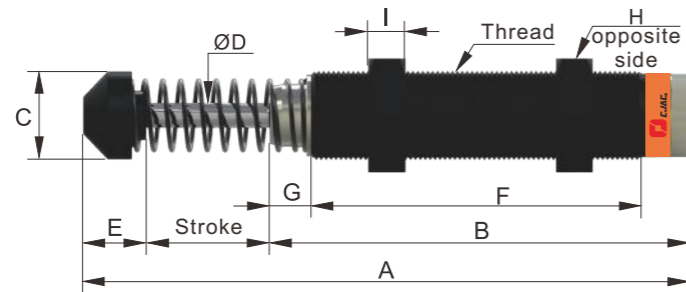
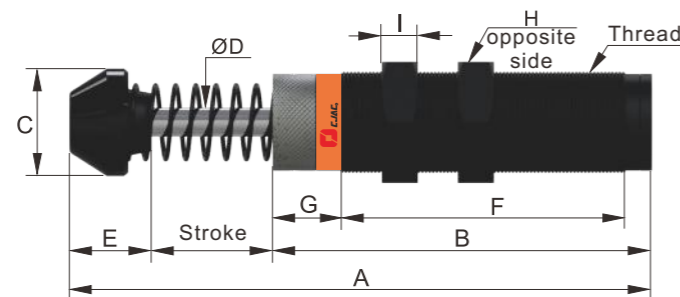


Figure 2



Form parameters

Model number	Thread	Stroke (mm)	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Figure
AD3625	M36x1.5	25	184	133	35.5	10	26	103	10	46	15	1
AD3650	M36x1.5	50	247	171	35.5	10	26	134	17	46	15	1
AD4225	M42x1.5	25	186.5	127.5	44.5	12	34	99	28.5	50	15	2
AD4225(-B)-W	M42x1.5 (-B)UNF13/4-12	25	166.3	95.3	44.5	12	34	29.3	37.9	—	—	4
AD4250	M42x1.5	50	241	157	44.5	12	34	117.5	28.5	50	15	2
AD4250(-B)-W	M42x1.5 (-B)UNF13/4-12	50	219.6	123.6	44.5	12	34	47	48.2	—	—	4
AD4275	M42x1.5	75	301.5	187.5	44.5	12	39	148	28.5	50	15	2
AD4275(-B)-W	M42x1.5 (-B)UNF13/4-12	75	284.1	158.1	44.5	12	39	63	67.2	—	—	4
AD64050(-B)	M64x2.0 (-B)UNF21/2-12	50	247.8	146	59	20	51.8	26	24	76.2	9.4	3
AD64050(-B)-W	M64x2.0 (-B)UNF21/2-12	50	243.8	140	59	20	51.8	50	50	—	—	4
AD64100(-B)	M64x2.0 (-B)UNF21/2-12	100	347.8	196	59	20	51.8	26	24	76.2	9.4	3
AD64100(-B)-W	M64x2.0 (-B)UNF21/2-12	100	345.8	192	59	20	51.8	76	76	—	—	4
AD64150(-B)	M64x2.0 (-B)UNF21/2-12	150	467.8	256	59	20	61.8	26	24	76.2	9.4	3
AD64150(-B)-W	M64x2.0 (-B)UNF21/2-12	150	465.8	242	59	20	61.8	76	76	—	—	4
AD85050-W	M85x2.0	50	245	140	76	22	47	51	51	—	—	4
AD85090-W	M85x2.0	90	322.5	179	76	22	47	71	71	—	—	4
AD85125-W	M85x2.0	125	397.6	217	76	22	47	71	71	—	—	4

Figure 3

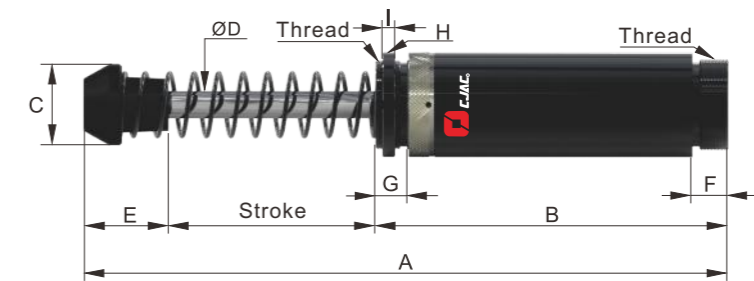
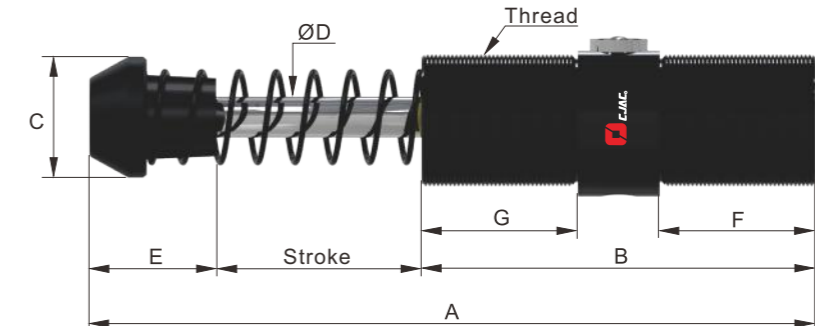


Figure 4



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