Techno Industrial Products

AD SERIES
Shock Absorber (Adjustable)

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℃
- Installation method —— Techno 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 —— Techno can make customized spec according to your usage situation.

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 (℃)	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

Figure 1

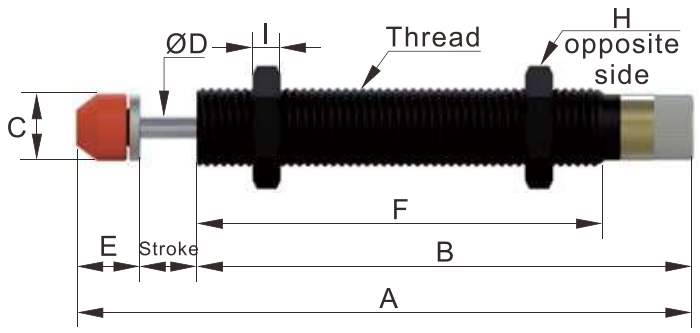
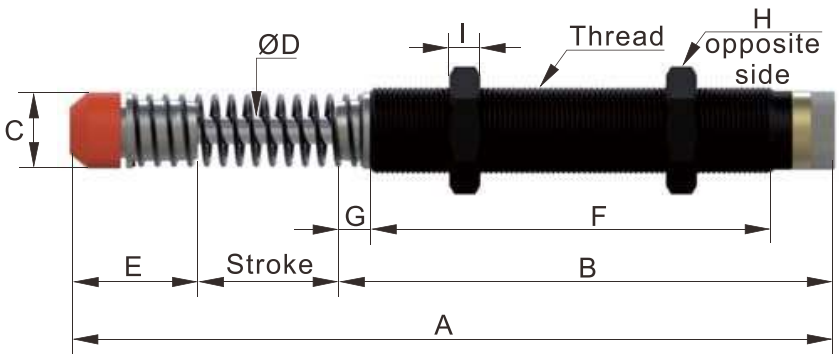


Figure 2



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

Figure 3

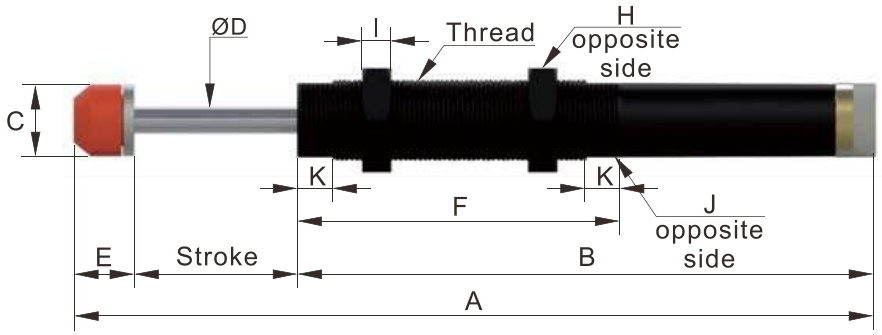
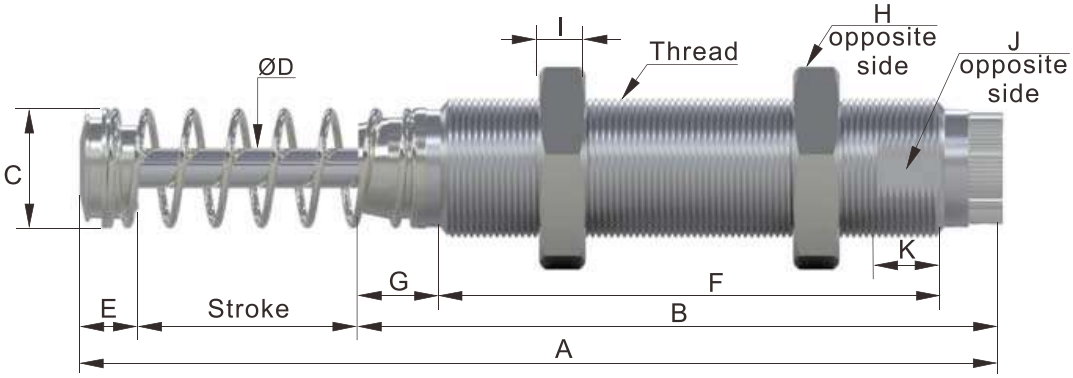


Figure 4



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 (℃)	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
AD4250	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
AD64050	50	1,200	150,500	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
AD64150	150	3,600	250,000	23,636	1.5	—	o	o	—	-10~+80	6,785

Figure 1

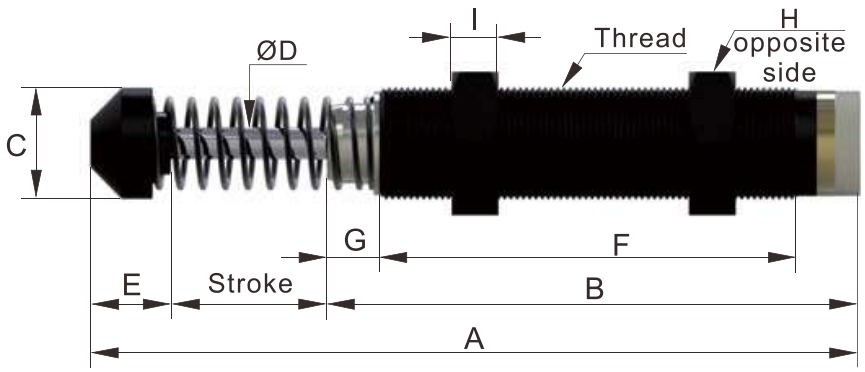
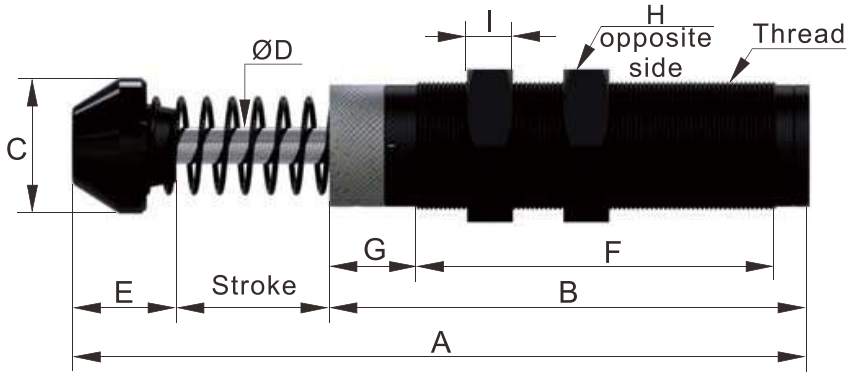


Figure 2



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
AD4250	M42x1·5	50	241	157	44.5	12	34	117·5	28.5	50	15	2
AD4275	M42x1.5	75	301.5	187.5	44.5	12	39	148	28.5	50	15	2
AD64050	M64x2.0 (−B)UNF2$_{1/2}$-12	50	247.8	146	59	20	51.8	26	24	76.2	9.4	3
AD64100	M64x2.0 (−B)UNF2$_{1/2}$-12	100	347.8	196	59	20	51.8	26	24	76.2	9.4	3
AD64150	M64x2.0 (−B)UNF2$_{1/2}$-12	150	467.8	256	59	20	61.8	26	24	76.2	9.4	3

Figure 3

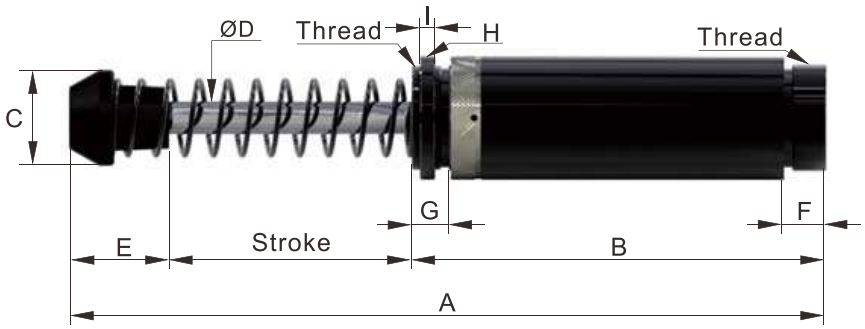


Figure 4