

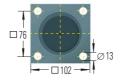
consult ACE.



Mounting Options A 1 1/2 . . .

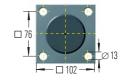
Rear Flange -R

Stroke



Front Flange -F

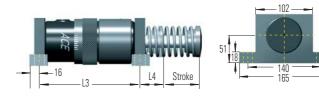




Clevis Mounting -C



Foot Mounting -S



Foot Mounting not available on 2" stroke models.

Mechanical Stop: Install Mechanical Stop 2.5 mm to 3 mm before the end of stroke.

Dimensions A 1 1/2

туре	L1	L2	L3	L 4	L5
A 1 1/2 x 2	195.2	54.2	-	-	277.8 - 328.6
A 1 1/2 x 3 1/2	233	54.2	170	58.6	316.6 - 405.6
A 1 1/2 x 5	271.5	54.2	208	58.6	354.8 - 481.8
A 1 1/2 x 6 1/2	329	73	246	78	412 - 577

Ordering Example	Α	11/2 :	x 2	R
Adjustable	^	^	A	A
Bore Size ø 11/2"				
Stroke Length 2" = 50.8 mm				
Rear Flange Mounting				

Model Type Prefix

A = self-contained with return spring (This is standard model)

AA = air/oil return without return spring Use only with external air/oil tank

NA = self-contained without return spring SA = air/oil return with return spring

Use only with external air/oil tank

Capacity	Chart

		Max. Er	nergy Capacity N	lm	*Effective Weight me		Spring	Max.	
Туре	Stroke mm	**per Cycle W3	W₄ per Self- Contained	Hour*** with Oil Tank		Return Force N min max	Return Time s	Side-Load Angle o	Weight kg
A 1 1/2 x 2	50	2 350	362 000	452 000	195 - 32 000	160 - 210	0.1	5	7.5
A 1 1/2 x 3 1/2	89	4 150	633 000	791 000	218 - 36000	110 - 210	0.25	4	8.9
A 1 1/2 x 5	127	5 900	904 000	1130 000	227 - 41000	90 - 230	0.4	3	10.3
A 1 1/2 x 6 1/2	165	7700	1180 000	1469 000	308 - 45 000	90 - 430	0.4	2	12

- * Standard effective weight ranges only shown. Please consult ACE if your application falls outside these for alternative range unit.
- ** For Emergency Use Only applications it may be possible to exceed these max. capacity ratings. Please consult ACE for further details.
- *** Figures for oil recirculation systems on request



CA 2 and A 2 Series – Heavy Duty Models

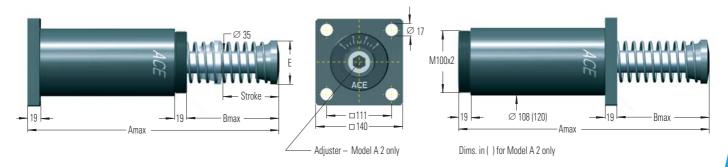


Self-Compensating and Adjustable

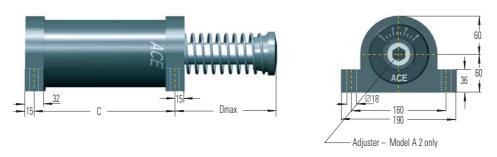
Mounting Options CA, A . . .

Rear Flange -R

Front Flange -F



Foot Mounting -S100



Dimensions of Clevis Mountings available on request.

NOTE! For replacement of existing SAHS 2" foot mounted units order the old type foot mounting -S2-A.

Dime	ensions	5			
Type	A max	B max	С	D max	E
2 x 2	313	110	173	125	70
2 x 4	414	160	224	175	70
2 x 6	516	211	275	226	70
2 x 8	643	287	326	302	92
2 x 10	745	338	377	353	108

Ordering Example	CA 2	x 4-3 F
Self-Compensating Bore Size 2" Stroke Length 4" = 102 mm Effective Weight Range Version Front Flange Mounting	<u> </u>	

Model Type Prefix

A, CA = self-contained with return spring
AA, CAA = air/oil return without return spring
Use only with external air/oil tank
NA, CNA = self-contained without return spring
SA, CSA = air/oil retun with return spring
Use only with external air/oil tank

Capac	ity Cl	nart										
		Ma	x. Energy (Capacity Nm	Soft	*Effective	e Weight me	Hard		Spring	Max.	
Туре	Stroke *	*per Cycle W3	Self-	Hour*** with Air/Oil Tank	-1 min kg max	-2 min kg max	-3 min kg max	r-4 min kg max	Return Force N min max	Return Time s	Side-Load Angle o	Weight kg
CA 2 x 2	50	3 600	1 100 000	1350000	700 - 2200	1800 - 5400	4 500 - 13 600	11 300 - 34 000	210 - 285	0.25	3	12.8
CA 2 x 4	102	7 200	1 350 000	1700000	1400 - 4400	3 600 - 11 000	9 100 - 27 200	22 600 - 68 000	150 - 285	0.50	3	14.8
CA 2 x 6	152	10800	1 600 000	2 000 000	2200 - 6500	5 400 - 16 300	13 600 - 40 800	34 000 -102 000	150 - 400	0.60	3	16.9
CA 2 x 8	203	14500	1 900 000	2 400 000	2900 - 8700	7 200 -21 700	18 100 -54 400	45 300 -136 000	230 - 650	0.70	3	19.3
CA 2 x 10	254	18 000	2 200 000	2700000	3 600 -11 000	9 100 -27 200	22 600 -68 000	56 600 -170 000	160 - 460	0.80	3	22.8
A 2 x 2	50	3 600	1 100 000	1 350 000		250 -	77 000		210 - 285	0.25	3	14.3
A 2 x 4	102	9 0 0 0	1 350 000	1700000		250 -	82 000		150 - 285	0.50	3	16.7
A 2 x 6	152	13 500	1 600 000	2 000 000		260 -	86 000		150 - 400	0.60	3	19.3
A 2 x 8	203	19 200	1 900 000	2 400 000		260 -	90 000		230 - 650	0.70	3	22.3
A 2 x 10	254	23700	2 200 000	2700000		320 - 1	13 000		160 - 460	0.80	3	26.3

^{*} Standard effective weight ranges only shown. Please consult ACE if your application falls outside these for alternative range unit.

^{***} Figures for oil recirculation systems on request



^{**} For **Emergency Use Only** applications it may be possible to exceed these max. capacity ratings. Please consult ACE for further details.

CA 3 and A 3 Series – Heavy Duty Models

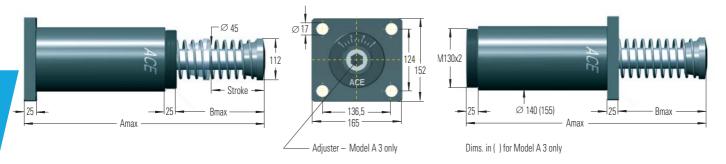


Self-Compensating and Adjustable

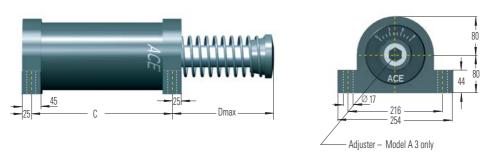
Mounting Options CA, A . . .

Rear Flange -R

Front Flange -F



Foot Mounting -S130



Dimensions of Clevis Mountings available on request.

NOTE! For replacement of existing SAHS 3" foot mounted units please consult ACE.

SAHS 3" and AHS 3" Interchange dimensions to order

Dimensions										
Type	A max	B max	С	D max						
3 x 5	502	210	260	216						
3 x 8	641	286	337	292						
3 x 12	890	433	438	439						

Ordering Example	A 3 x 8 R
Adjustable Bore Size 3" Stroke Length 8" = 203 mm Rear Flange Mounting	

Model Type Prefix

A, CA = self-contained with return spring
AA, CAA = air/oil return without return spring
Use only with external air/oil tank
NA, CNA = self-contained without return spring
SA, CSA = air/oil retun with return spring
Use only with external air/oil tank

Capac	ity C	hart										
		Max. E	nergy Cap	•	Soft	*Effecti	ve Weight me	Hard	Return Force	Spring	Max.	
Туре	Stroke * mm	*per Cycle W3	Seif-	Hour*** with Air/Oil Tank	-1 min kg max	-2 min kg max	-3 min kg max	r-4 min kg max	N min max	Return Time s	Side-Load Angle o	Weight kg
CA 3 x 5	127	14 125	2 260 000	2800000	2900 - 8700	7 250 - 21 700	18 100 - 54 350	45 300 -135 900	270 - 710	0.60	3	28.9
CA 3 x 8	203	22 600	3 600 000	4 520 000	4650-13900	11 600 - 34 800	29 000 - 87 000	72 500 -217 000	280 - 740	0.80	3	33.4
CA 3 x 12	305	33 900	5 400 000	6780000	6950-20900	17 400 - 52 200	43 500 -130 450	108 700 -326 000	270 - 730	1.20	3	40.6
A 3 x 5	127	15 800	2 260 000	2800000		480 -154	000		270 - 710	0.60	3	32.7
A 3 x 8	203	28 200	3 600 000	4 520 000		540 - 181	500		280 - 740	0.80	3	38.5
A 3 x 12	305	44 000	5 400 000	6780000		610 - 204	000		270 - 730	1.20	3	47.6

^{*} Standard effective weight ranges only shown. Please consult ACE if your application falls outside these for alternative range unit.

^{***} Figures for oil recirculation systems on request

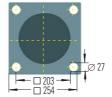


^{**} For Emergency Use Only applications it may be possible to exceed these max. capacity ratings. Please consult ACE for further details.

Part Number CA, . . .

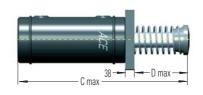
Rear Flange -R

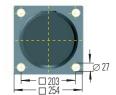
Ø,54 (63,5) Ø 114 (127) -38 - A max Figures in () for Type CA 4x16



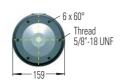
Front Flange -F

Side Foot Mounting -S

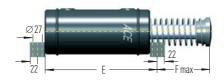




6 Tapped Holes (Primary Mounting) -FRP



585





Dimensions of Clevis Mountings available on request.

Dimensions CA and CSA Type Е F 4 x 6 444 256 716 278 678 240 4 x 8 4 x 16 495 818 329 780 291 307

1 262.6

608.5

1300

Dimensions CAA									
Type	Α	В	С	D	E	F			
4 x 6	666	228	628	190	444	206			
4 x 8	767	278	729	240	495	256			
4 x 16	1 174	482	1 136	444	698	460			

Ordering Example	CA 4 x 8-5 R
Self-Compensating Bore Size Ø 4"	
Stroke Length 8" = 203 mm Medium Effective Weight Version	
Rear Flange Mounting	

Model Type Prefix

= self-contained with return spring (This is standard model)

CAA = air/oil return without return spring Use only with air/oil tank for high energy capacity per hour figures

CNA = self-contained without return spring CSA = air/oil return with return spring

Use only with air/oil tank

Capacity Chart											
		Ma	Max. Energy Capacity Nm			* Effective Weight me				Rod	
Туре	Stroke	**per Cycle W3	Self-	W4 per Hour with Air/ Oil Tank	with Oil Recirculation	Soft	Medium -5	Hard -7	Return Force N	Reset Time	Weight kg
4 x 6	152	47 500	Contained 3 000 000	5 100 000	6 600 000	min kg max 3500 - 8600	min kg max 8600 - 18600	min kg max 18 600 - 42 700	min max 480 - 1000	s 1.8	FRP 60
4 x 8	203	63 300	3 400 000	5 600 000	7 300 000		11 400 - 25 000	25 000 - 57 000	310 - 1000	2.3	68
4 x 16	406	126 500	5 600 000	9 600 000	12 400 000	10 000 - 23 000	23 000 - 50 000	50 000 - 115 000	310 - 1000	Ask	170

^{*} The effective weight range limits can be raised or lowered to special order.

^{**} For Emergency Use Only applications it is sometimes possible to exceed the above ratings. Please consult ACE for further details.