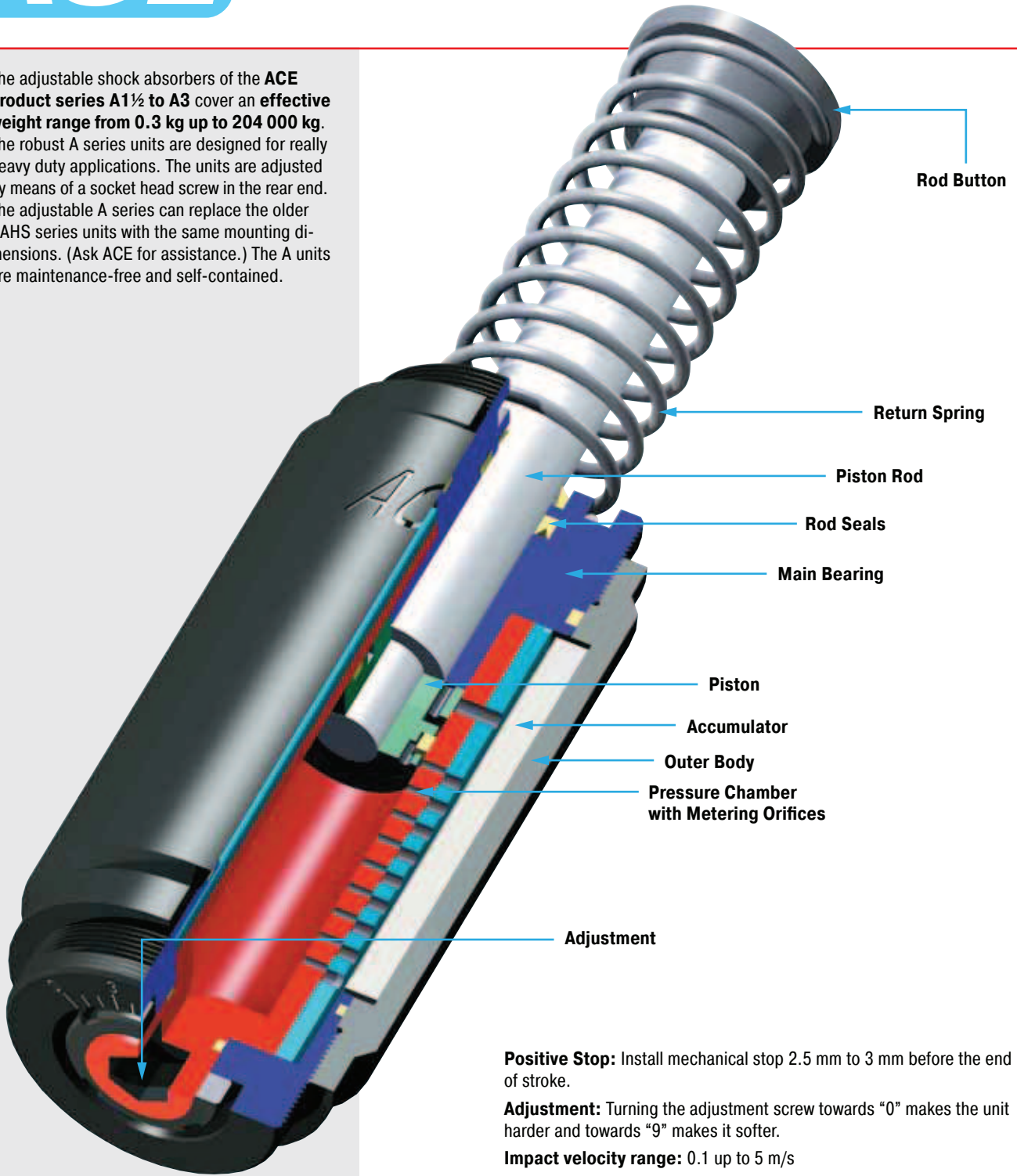


The adjustable shock absorbers of the **ACE product series A1½ to A3** cover an **effective weight range from 0.3 kg up to 204 000 kg**. The robust A series units are designed for really heavy duty applications. The units are adjusted by means of a socket head screw in the rear end. The adjustable A series can replace the older SAHS series units with the same mounting dimensions. (Ask ACE for assistance.) The A units are maintenance-free and self-contained.



Positive Stop: Install mechanical stop 2.5 mm to 3 mm before the end of stroke.

Adjustment: Turning the adjustment screw towards "0" makes the unit harder and towards "9" makes it softer.

Impact velocity range: 0.1 up to 5 m/s

Operating fluid: Models A1½: HLP46 viscosity 46cSt. at 40 °C. Models A2 and A3: Automatic Transmission Fluid (ATF) viscosity 42 cSt. at 40 °C.

Material: Body and accessories: Steel with black oxide finish. Piston rod: Steel hardened and chrome plated. Rod end button: Steel hardened with black oxide finish. Return spring: Zinc plated. For optimum heat dissipation do not paint outer body.

Capacity rating: For emergency use only applications it may be possible to exceed published energy per cycle (W_3) figures. Please consult ACE for further details.

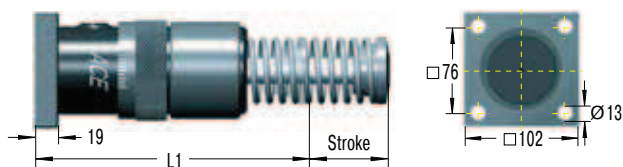
Mounting: In any position

Operating temperature range: -12 °C to 85 °C

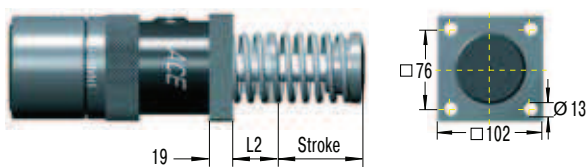
On request: Special oils, or for higher or lower impact velocities outside range shown above, or other options please consult ACE.



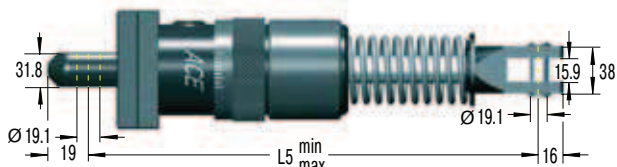
Rear Flange -R



Front Flange -F

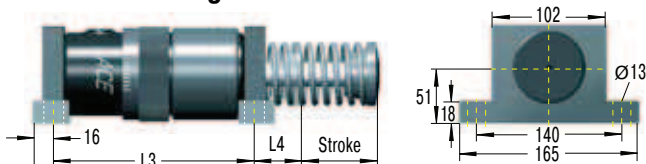


Clevis Mounting -C



Due to limited force capacity the respective ability should be reviewed by ACE.

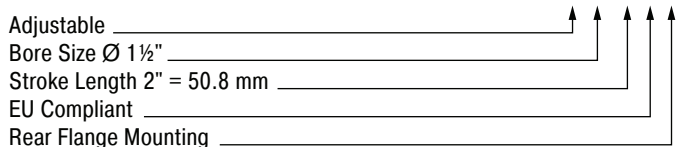
Foot Mounting -S



Not available on 2" stroke models.

Install mechanical stop 2.5 mm to 3 mm before end of stroke.

Ordering Example



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.

Dimensions

Type	Stroke mm	L1	L2	L3	L4	L5
A1½x2EU	50	195.2	54.2	-	-	277.8 - 328.6
A1½x3½EU	89	233	54.2	170	58.6	316.6 - 405.6
A1½x5EU	127	271.5	54.2	208	58.6	354.8 - 481.8
A1½x6½EU	165	329	73	246	78	412 - 577

Capacity Chart

Type	Max. Energy Capacity			1 Effective Weight me		Min. Return Force N	Max. Return Force N	Rod Reset Time s	Max. Side Load Angle °	Weight kg
	2 W3 Nm/Cycle	3 W4 Self-Contained Nm/h	3 W4 with Air/Oil Tank Nm/h	me min. kg	me max. kg					
A1½x2EU	2 350	362 000	452 000	195	32 000	160	210	0.1	5	7.55
A1½x3½EU	4 150	633 000	791 000	218	36 000	110	210	0.25	4	8.9
A1½x5EU	5 900	904 000	1 130 000	227	41 000	90	230	0.4	3	9.35
A1½x6½EU	7 700	1 180 000	1 469 000	308	45 000	90	430	0.4	2	11.95

1 The effective weight range limits can be raised or lowered to special order.

2 For emergency use only applications it may be possible to exceed these max. capacity ratings. Please consult ACE for further details.

3 Figures for oil recirculation systems on request.