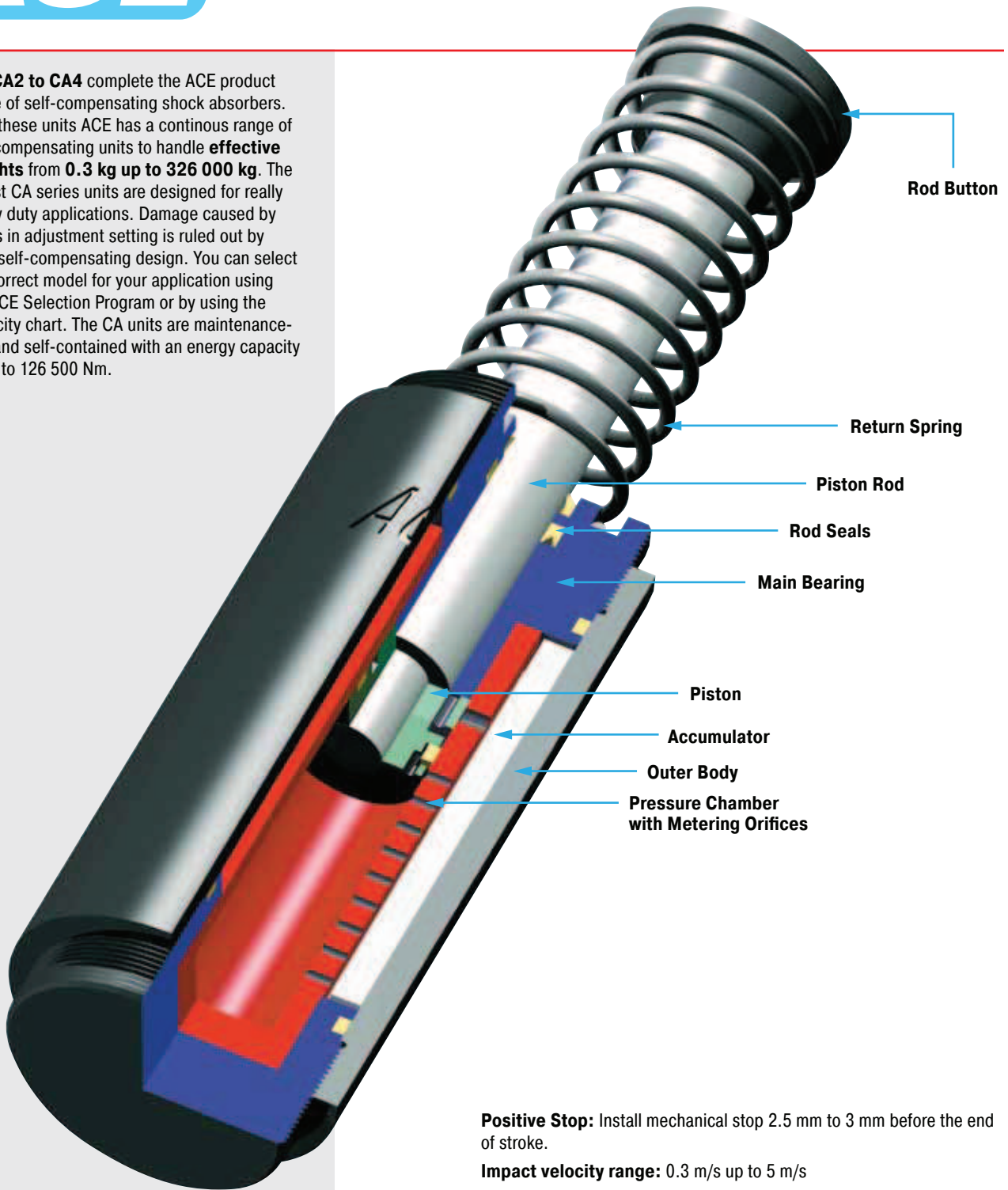


The **CA2 to CA4** complete the ACE product range of self-compensating shock absorbers. With these units ACE has a continuous range of self-compensating units to handle **effective weights from 0.3 kg up to 326 000 kg**. The robust CA series units are designed for really heavy duty applications. Damage caused by errors in adjustment setting is ruled out by their self-compensating design. You can select the correct model for your application using the ACE Selection Program or by using the capacity chart. The CA units are maintenance-free and self-contained with an energy capacity of up to 126 500 Nm.



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

**Impact velocity range:** 0.3 m/s up to 5 m/s

**Operating fluid:** 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.

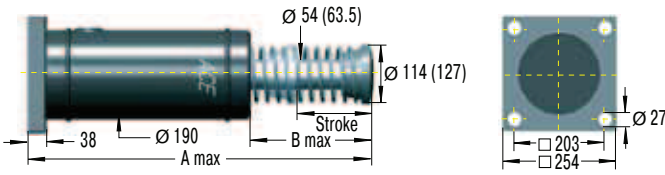
**Mounting:** In any position

**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.

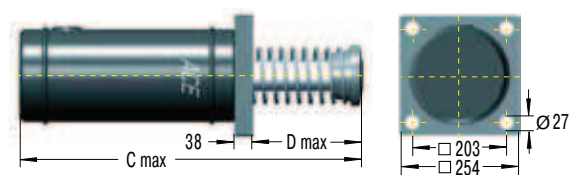


### Rear Flange -R

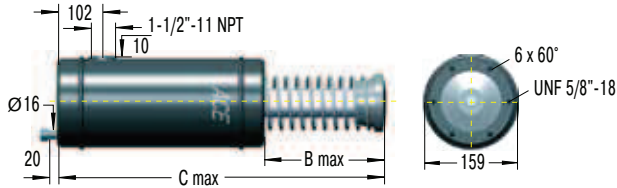


Dimension in ( ) for model CA4x16 only

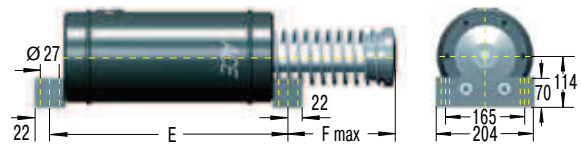
### Front Flange -F



### 6 Tapped Holes (Primary Mounting) FRP

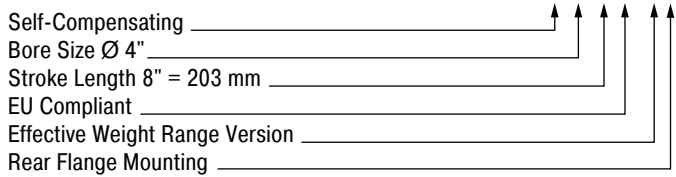


### Foot Mounting -S



Dimensions of clevis mountings available on request.

### Ordering Example



### Model Type Prefix

- CA = self-contained with return spring  
(This is standard model)
- CAA = air/oil return without return spring.  
Use only with external air/oil tank.
- CNA = self-contained without return spring
- CSA = air/oil return with return spring.  
Use only with external air/oil tank.

### Dimensions CA/CNA/CSA

Type	Stroke mm	A	B	C	D	E	F
4x6EU	152	716	278	678	240	444	256
4x8EU	203	818	329	780	291	495	307
4x16EU	406	13 000	608.5	1 262.6	569	698	585

### Capacity Chart CA4

Type	Max. Energy Capacity				1 Effective Weight me						Min. Return Force N	Max. Return Force N	Rod Reset Time s	Weight kg
	2 W <sub>3</sub> Nm/Cycle	W <sub>4</sub> Self- Contained Nm/h	W <sub>4</sub> with Air/Oil Tank Nm/h	W <sub>4</sub> with Oil Recirculation Nm/h	Soft		-5		Hard					
					-3 min. max. kg	-5 min. max. kg	-7 min. max. kg	-7 min. max. kg						
CA4x6EU	47 500	3 000 000	5 100 000	6 600 000	3 500 - 8 600	8 600 - 18 600	18 600 - 42 700	480	1 000	1.8	60			
CA4x8EU	63 300	3 400 000	5 600 000	7 300 000	5 000 - 11 400	11 400 - 25 000	25 000 - 57 000	310	1 000	2.3	68			
CA4x16EU	126 500	5 600 000	9 600 000	12 400 000	10 000 - 23 000	23 000 - 50 000	50 000 - 115 000	310	1 000	Ask	146			

<sup>1</sup> The effective weight range limits can be raised or lowered to special order.

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