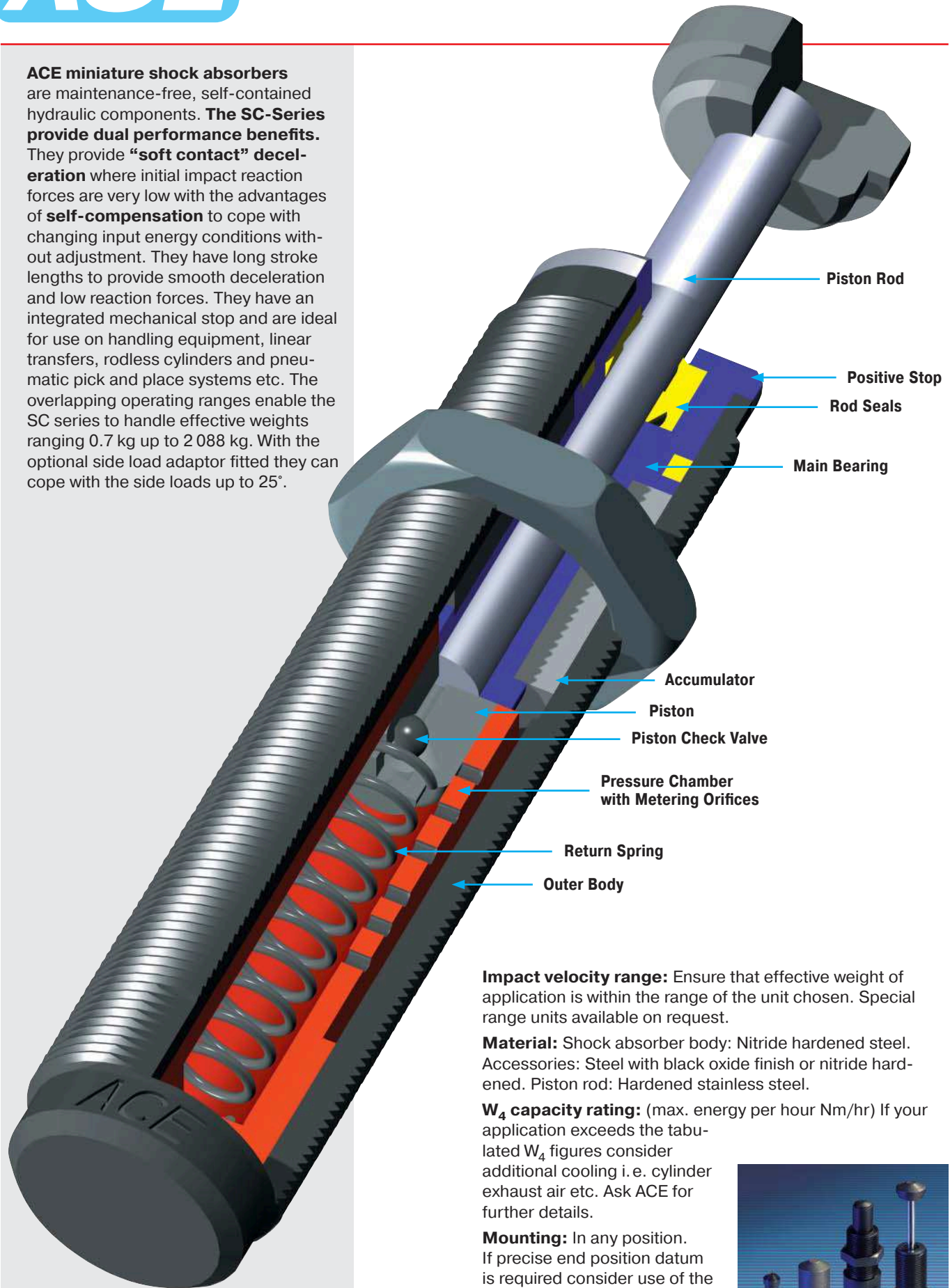


ACE miniature shock absorbers are maintenance-free, self-contained hydraulic components. **The SC-Series provide dual performance benefits.** They provide “**soft contact**” deceleration where initial impact reaction forces are very low with the advantages of **self-compensation** to cope with changing input energy conditions without adjustment. They have long stroke lengths to provide smooth deceleration and low reaction forces. They have an integrated mechanical stop and are ideal for use on handling equipment, linear transfers, rodless cylinders and pneumatic pick and place systems etc. The overlapping operating ranges enable the SC series to handle effective weights ranging 0.7 kg up to 2 088 kg. With the optional side load adaptor fitted they can cope with the side loads up to 25°.



Impact velocity range: Ensure that effective weight of application is within the range of the unit chosen. Special range units available on request.

Material: Shock absorber body: Nitride hardened steel. Accessories: Steel with black oxide finish or nitride hardened. Piston rod: Hardened stainless steel.

W₄ capacity rating: (max. energy per hour Nm/hr) If your application exceeds the tabulated W₄ figures consider additional cooling i.e. cylinder exhaust air etc. Ask ACE for further details.

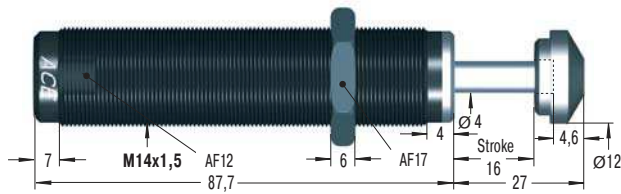
Mounting: In any position. If precise end position datum is required consider use of the optional stop collar type AH.

Operating temperature range: 0 °C to 66 °C

On request: Weartec finish (seawater resistant). Other special finishes available to special order.

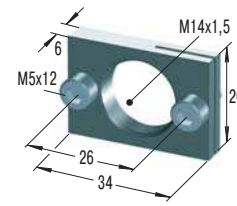


SC190EUM



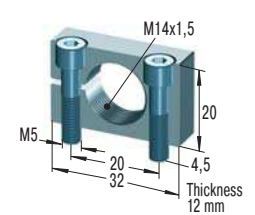
M14x1 and M16x1 also available to special order
Accessories, mounting, installation ... see pages 31 to 35.

RF14



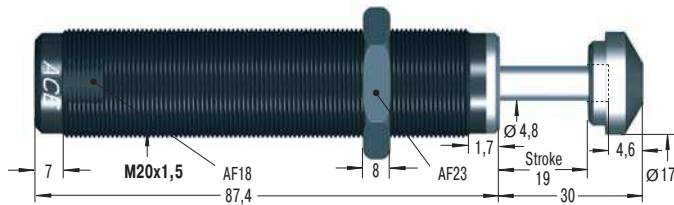
Rectangular Flange

MB14



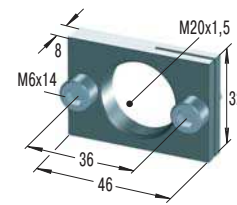
Clamp Mount

SC300EUM



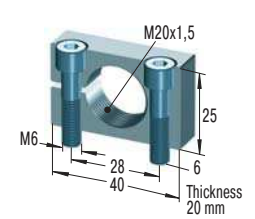
M22x1.5 also available to special order
Accessories, mounting, installation ... see pages 32 to 35.

RF20



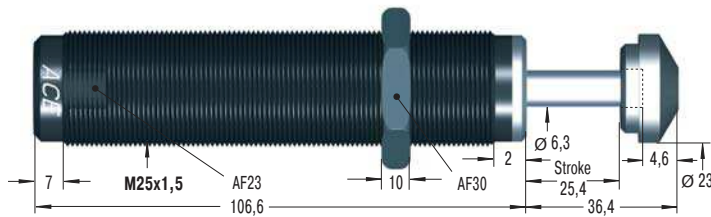
Rectangular Flange

MB20



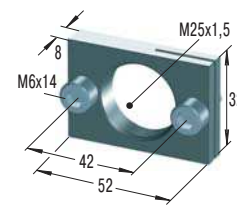
Clamp Mount

SC650EUM



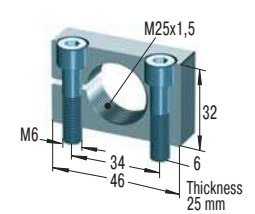
M26x1.5 also available to special order
Accessories, mounting, installation ... see pages 32 to 35.

RF25



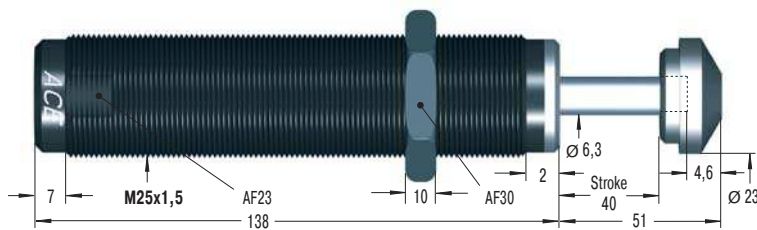
Rectangular Flange

MB25



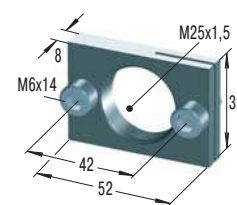
Clamp Mount

SC925EUM



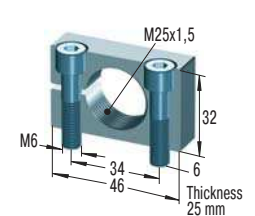
Accessories, mounting, installation ... see pages 32 to 35.

RF25



Rectangular Flange

MB25



Clamp Mount

Available without rod end button on request.

Capacity Chart

| Type Part Number | Max. Energy Capacity | | Effective Weight me | | | | Min. Return Force N | Max. Return Force N | Rod Reset Time s | 1 Max. Side Load Angle ° | Weight kg |
|---------------------|----------------------------|------------------------|-------------------------------|-------------------------------|------------------------------------|------------------------------------|---------------------------|---------------------------|------------------------|-----------------------------|--------------|
| | W ₃ Nm/Cycle | W ₄ Nm/h | Soft-Contact me min. kg | Soft-Contact me max. kg | Self-Compensating me min. kg | Self-Compensating me max. kg | | | | | |
| SC190EUM-0 | 25 | 34 000 | — | — | 0.7 | 4 | 4 | 9 | 0.25 | 5 | 0.08 |
| SC190EUM-1 | 25 | 34 000 | 2.3 | 6 | 1.4 | 7 | 4 | 9 | 0.25 | 5 | 0.08 |
| SC190EUM-2 | 25 | 34 000 | 5.5 | 16 | 3.6 | 18 | 4 | 9 | 0.25 | 5 | 0.08 |
| SC190EUM-3 | 25 | 34 000 | 14 | 41 | 9 | 45 | 4 | 9 | 0.25 | 5 | 0.08 |
| SC190EUM-4 | 25 | 34 000 | 34 | 91 | 23 | 102 | 4 | 9 | 0.25 | 5 | 0.08 |
| SC300EUM-0 | 33 | 45 000 | — | — | 0.7 | 4 | 5 | 10 | 0.1 | 5 | 0.11 |
| SC300EUM-1 | 33 | 45 000 | 2.3 | 7 | 1.4 | 8 | 5 | 10 | 0.1 | 5 | 0.11 |
| SC300EUM-2 | 33 | 45 000 | 7 | 23 | 4.5 | 27 | 5 | 10 | 0.1 | 5 | 0.11 |
| SC300EUM-3 | 33 | 45 000 | 23 | 68 | 14 | 82 | 5 | 10 | 0.1 | 5 | 0.11 |
| SC300EUM-4 | 33 | 45 000 | 68 | 181 | 32 | 204 | 5 | 10 | 0.1 | 5 | 0.11 |
| SC650EUM-0 | 73 | 68 000 | — | — | 2.3 | 14 | 11 | 32 | 0.2 | 5 | 0.31 |
| SC650EUM-1 | 73 | 68 000 | 11 | 36 | 8 | 45 | 11 | 32 | 0.2 | 5 | 0.31 |
| SC650EUM-2 | 73 | 68 000 | 34 | 113 | 23 | 136 | 11 | 32 | 0.2 | 5 | 0.31 |
| SC650EUM-3 | 73 | 68 000 | 109 | 363 | 68 | 408 | 11 | 32 | 0.2 | 5 | 0.31 |
| SC650EUM-4 | 73 | 68 000 | 363 | 1 089 | 204 | 1 180 | 11 | 32 | 0.2 | 5 | 0.31 |
| SC925EUM-0 | 110 | 90 000 | 8 | 25 | 4.5 | 29 | 11 | 32 | 0.4 | 5 | 0.39 |
| SC925EUM-1 | 110 | 90 000 | 22 | 72 | 14 | 90 | 11 | 32 | 0.4 | 5 | 0.39 |
| SC925EUM-2 | 110 | 90 000 | 59 | 208 | 40 | 272 | 11 | 32 | 0.4 | 5 | 0.39 |
| SC925EUM-3 | 110 | 90 000 | 181 | 612 | 113 | 726 | 11 | 32 | 0.4 | 5 | 0.39 |
| SC925EUM-4 | 110 | 90 000 | 544 | 1 952 | 340 | 2 088 | 11 | 32 | 0.4 | 5 | 0.39 |

¹ For applications with higher side load angles consider using the side load adaptor (BV) pages 31 to 34.