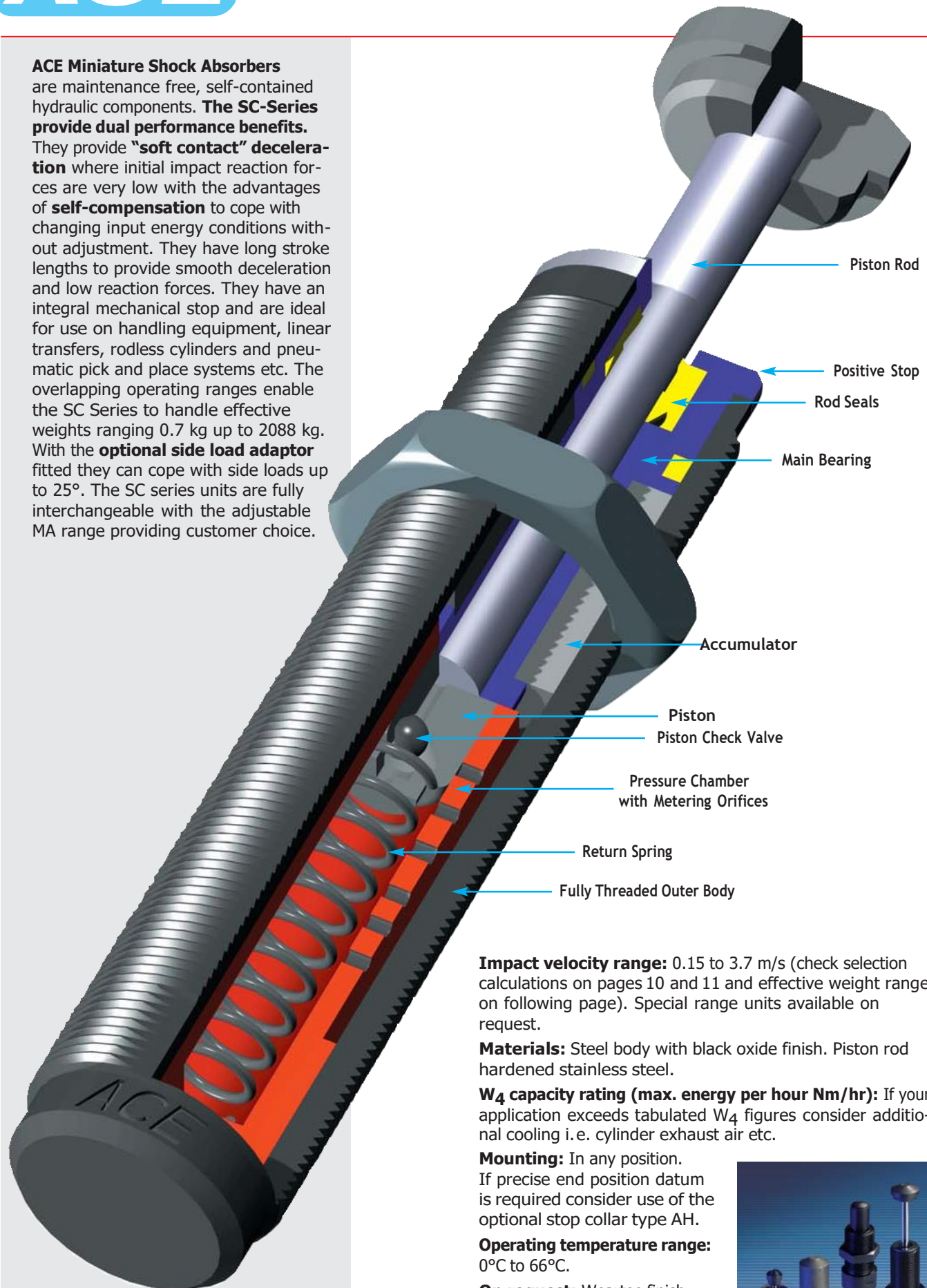


**ACE Miniature Shock Absorbers** are maintenance free, self-contained hydraulic components. **The SC-Series provide dual performance benefits.** They provide "soft contact" deceleration where initial impact reaction forces are very low with the advantages of **self-compensation** to cope with changing input energy conditions without adjustment. They have long stroke lengths to provide smooth deceleration and low reaction forces. They have an integral 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 2088 kg. With the **optional side load adaptor** fitted they can cope with side loads up to 25°. The SC series units are fully interchangeable with the adjustable MA range providing customer choice.



**Impact velocity range:** 0.15 to 3.7 m/s (check selection calculations on pages 10 and 11 and effective weight ranges on following page). Special range units available on request.

**Materials:** Steel body with black oxide finish. Piston rod hardened stainless steel.

**W<sub>4</sub> capacity rating (max. energy per hour Nm/hr):** If your application exceeds tabulated W<sub>4</sub> figures consider additional cooling i.e. cylinder exhaust air etc.

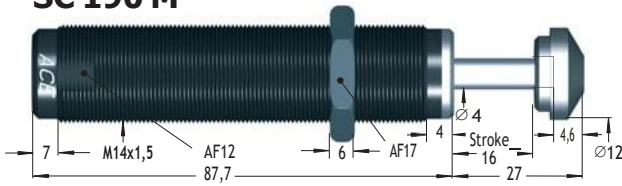
**Mounting:** In any position.  
If precise end position datum is required consider use of the optional stop collar type AH.

**Operating temperature range:** 0°C to 66°C.

**On request:** Wearthec finish (seawater resistant) other special finishes available to special order.



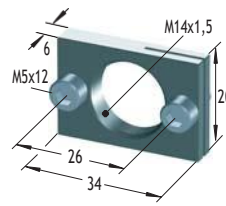
### Part Number SC . . . SC 190 M



M14x1 and M16x1 also available to special order

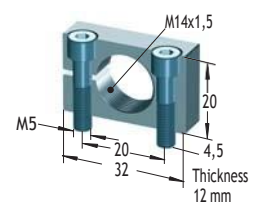
Accessories, mounting, installation... see pages 31 to 35.

### RF 14



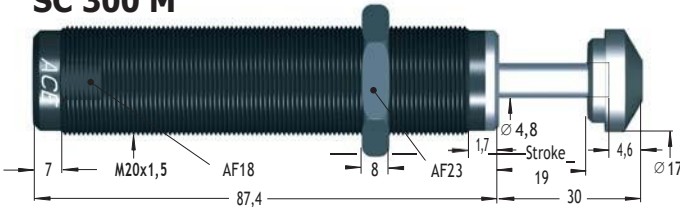
Rectangular Flange

### MB 14



Clamp Mount

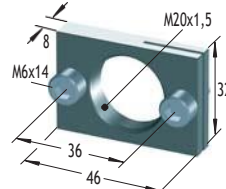
### SC 300 M



M22x1,5 also available to special order

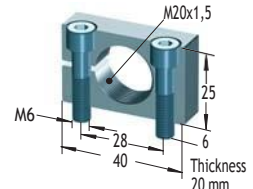
Accessories, mounting, installation... see pages 31 to 35.

### RF 20



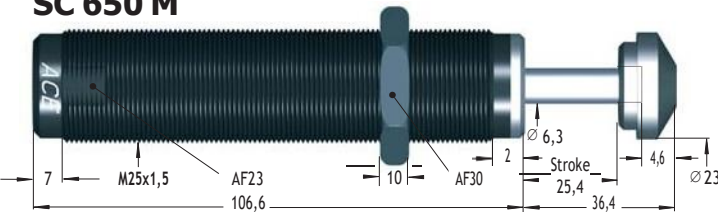
Rectangular Flange

### MB 20



Clamp Mount

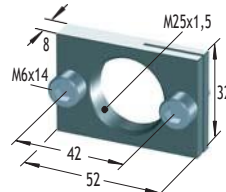
### SC 650 M



M26x1,5 also available to special order

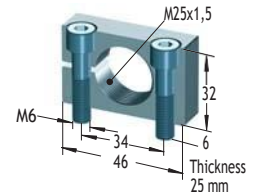
Accessories, mounting, installation... see pages 32 to 35.

### RF 25



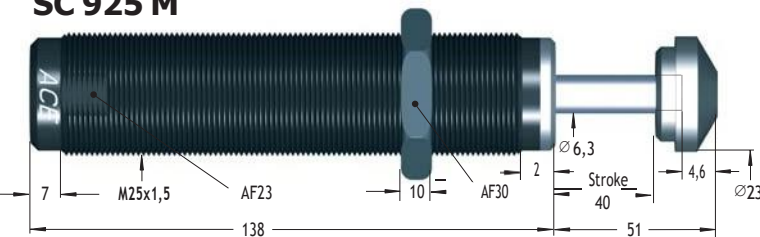
Rectangular Flange

### MB 25



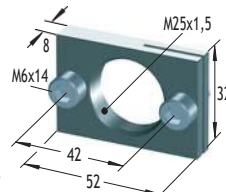
Clamp Mount

### SC 925 M



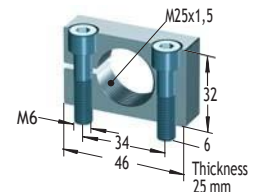
Accessories, mounting, installation... see pages 32 to 35.

### RF 25



Rectangular Flange

### MB 25



Clamp Mount

### AH Stop Collar



### BV Side Load Adaptor



### PB Steel Shroud



SC 190 M to SC 650 M only

### AS Switch Stop Collar



Available without Rod End Button on request. Mounting, installation... see pages 31 to 35.

## Capacity Chart

Type	Max. Energy Capacity Nm		Effective Weight me		Return Force N	Rod Reset Time s	*Max. Side Load Angle °	Weight kg	
	per Cycle W3	per Hour W4	Soft-Contact min kg	max					Self-Compensating min kg
SC 190 M-0	25	34000	---	---	0.7 - 4	4 - 9	0.25	5	0.08
SC 190 M-1	25	34000	2.3 - 6	---	1.4 - 7	4 - 9	0.25	5	0.08
SC 190 M-2	25	34000	5.5 - 16	---	3.6 - 18	4 - 9	0.25	5	0.08
SC 190 M-3	25	34000	14 - 41	---	9 - 45	4 - 9	0.25	5	0.08
SC 190 M-4	25	34000	34 - 91	---	23 - 102	4 - 9	0.25	5	0.08
SC 300 M-0	33	45000	---	---	0.7 - 4	5 - 10	0.10	5	0.11
SC 300 M-1	33	45000	2.3 - 7	---	1.4 - 8	5 - 10	0.10	5	0.11
SC 300 M-2	33	45000	7 - 23	---	4.5 - 27	5 - 10	0.10	5	0.11
SC 300 M-3	33	45000	23 - 68	---	14 - 82	5 - 10	0.10	5	0.11
SC 300 M-4	33	45000	68 - 181	---	32 - 204	5 - 10	0.10	5	0.11
SC 650 M-0	73	68000	---	---	2.3 - 14	11 - 32	0.20	5	0.31
SC 650 M-1	73	68000	11 - 36	---	8 - 45	11 - 32	0.20	5	0.31
SC 650 M-2	73	68000	34 - 113	---	23 - 136	11 - 32	0.20	5	0.31
SC 650 M-3	73	68000	109 - 363	---	68 - 408	11 - 32	0.20	5	0.31
SC 650 M-4	73	68000	363 - 1089	---	204 - 1180	11 - 32	0.20	5	0.31
SC 925 M-0	110	90000	8 - 25	---	4.5 - 29	11 - 32	0.40	5	0.39
SC 925 M-1	110	90000	22 - 72	---	14 - 90	11 - 32	0.40	5	0.39
SC 925 M-2	110	90000	59 - 208	---	40 - 272	11 - 32	0.40	5	0.39
SC 925 M-3	110	90000	181 - 612	---	113 - 726	11 - 32	0.40	5	0.39
SC 925 M-4	110	90000	544 - 1952	---	340 - 2088	11 - 32	0.40	5	0.39