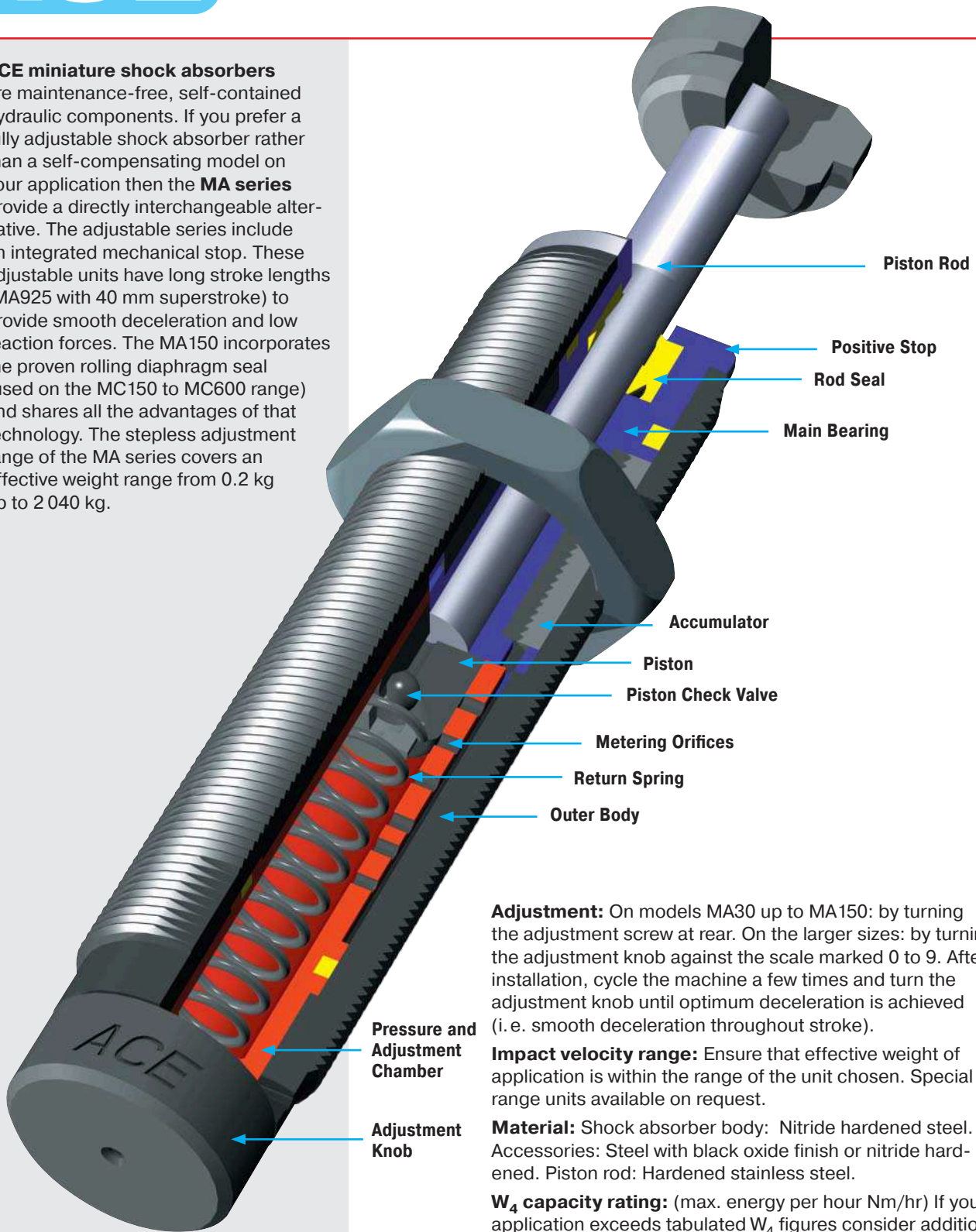


ACE miniature shock absorbers are maintenance-free, self-contained hydraulic components. If you prefer a fully adjustable shock absorber rather than a self-compensating model on your application then the **MA series** provide a directly interchangeable alternative. The adjustable series include an integrated mechanical stop. These adjustable units have long stroke lengths (MA925 with 40 mm superstroke) to provide smooth deceleration and low reaction forces. The MA150 incorporates the proven rolling diaphragm seal (used on the MC150 to MC600 range) and shares all the advantages of that technology. The stepless adjustment range of the MA series covers an effective weight range from 0.2 kg up to 2 040 kg.



Adjustment: On models MA30 up to MA150: by turning the adjustment screw at rear. On the larger sizes: by turning the adjustment knob against the scale marked 0 to 9. After installation, cycle the machine a few times and turn the adjustment knob until optimum deceleration is achieved (i.e. smooth deceleration throughout stroke).

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 tabulated W₄ figures consider additional cooling i.e. cylinder exhaust air etc. Ask ACE for assistance.

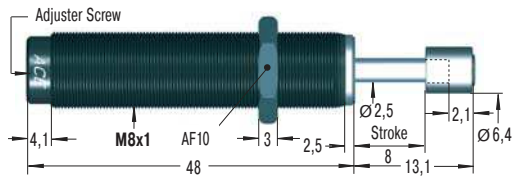
Mounting: In any position. If precise end position datum is required consider use of the optional stop collar type AH. Install a mechanical stop 0.5 to 1 mm before end of stroke on FA1008.

Operating temperature range: 0 °C to 66 °C

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

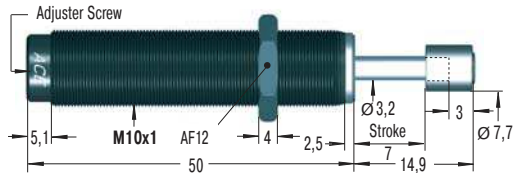


MA30EUM



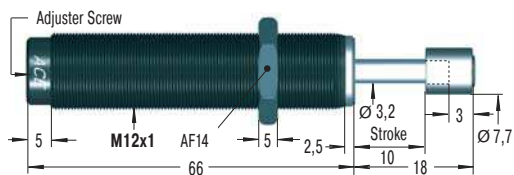
Accessories, mounting, installation ... see pages 30 to 35.

MA50EUM for use on new installations



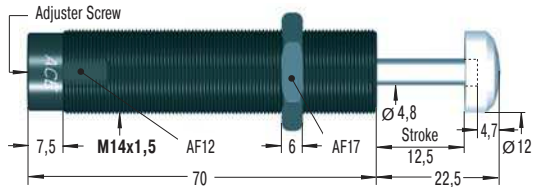
Accessories, mounting, installation ... see pages 30 to 35.

MA35EUM



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

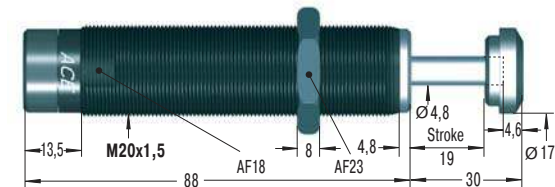
MA150EUM



M14x1 also available to special order

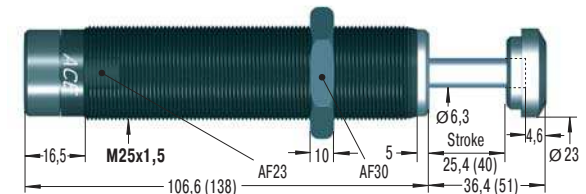
Accessories, mounting, installation ... see pages 31 to 35.

MA225EUM



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

MA600EUM and MA900EUM

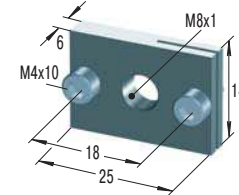


Accessories, mounting, installation ... see pages 32 to 35.

MA600EUML with M27x3 available to special order

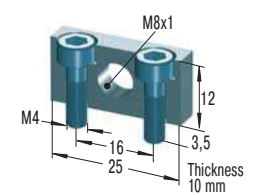
Available without rod end button on request. Models MA600M/MA900M available with clevis mounting.

RF8



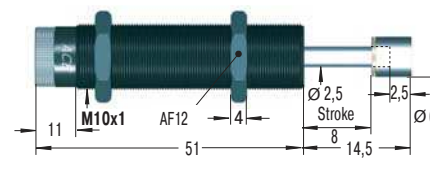
Rectangular Flange

MB8SC2



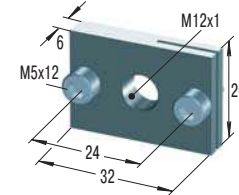
Mounting Block

FA1008VD-B still available in future



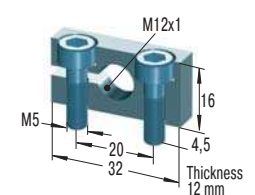
Accessories, mounting, installation ... see pages 30 to 35.

RF12



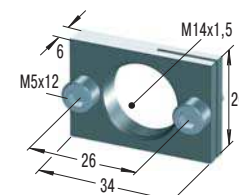
Rectangular Flange

MB12



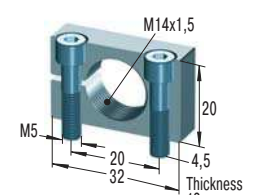
Clamp Mount

RF14



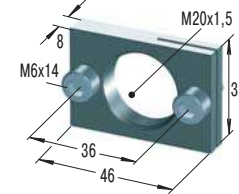
Rectangular Flange

MB14



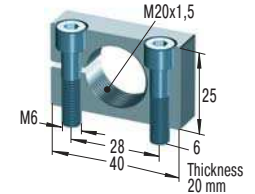
Clamp Mount

RF20



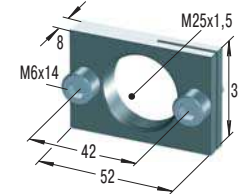
Rectangular Flange

MB20



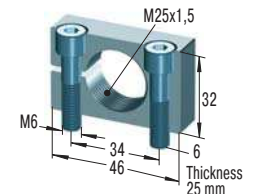
Clamp Mount

RF25



Rectangular Flange

MB25



Clamp Mount

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	Adjustable me min. kg	me max. kg					
MA30EUM	3.5	5 650	0.23	15	1.7	5.3	0.3	2	0.013
FA1008VD-B	1.8	3 600	0.2	10	3	6	0.3	2.5	0.026
MA50EUM	5.5	13 500	4.5	20	3	6	0.3	2	0.025
MA35EUM	4	6 000	6	57	5	11	0.2	2	0.043
MA150EUM	22	35 000	1	109	3	5	0.4	2	0.06
MA225EUM	25	45 000	2.3	226	5	10	0.1	2	0.13
MA600EUM	68	68 000	9	1 360	10	30	0.2	2	0.31
MA900EUM	100	90 000	14	2 040	10	35	0.4	1	0.4

1 For applications with higher side load angles consider using the side load adaptor (BV) pages 30 to 34.