

Adjustable

MA30 to MA900

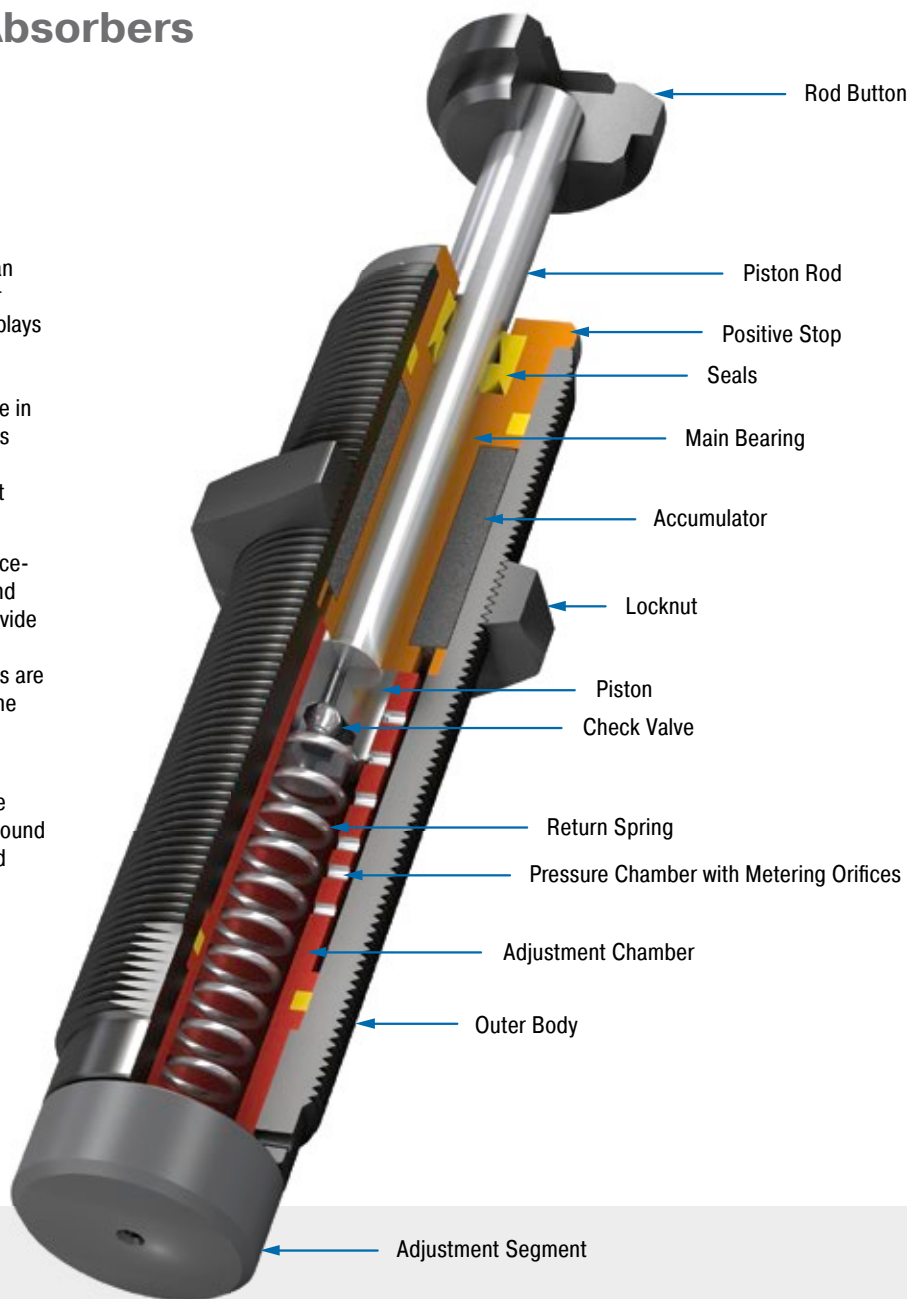
Miniature Shock Absorbers

Stepless adjustment

Exact adjustment: The miniature shock absorbers from the MA30 to 900 series can be adjusted and precisely adapted to your requirements. For example, the MA150 displays the rolling diaphragm technology from the MC150 to 600 series and offers all of the advantages of this technology, such as use in pressure chambers. Thanks to long strokes (including 40 mm on the MA900) lower reaction forces result, which provide a soft damping characteristic.

All variations of these units are maintenance-free, ready-to-install machine elements and have an integrated positive stop. They provide the best service where application data changes, where the calculation parameters are not clear or where maximum flexibility in the possible usage is required.

The adjustable miniature shock absorbers from ACE can be used to meet precisely the customer's application and are therefore found everywhere in mechanical engineering and many other applications.



Technical Data

Energy capacity: 3.5 Nm/Cycle to 100 Nm/Cycle

Impact velocity range: 0.15 m/s to 4.5 m/s. Other speeds on request.

Operating temperature range: 0 °C to 66 °C

Mounting: In any position

Positive stop: Integrated

Adjustment: Hard impact at the start of stroke, adjust the ring towards 9 or PLUS. Hard impact at the end of stroke, adjust the ring towards 0 or MINUS.

Material: Outer body, Accessories: Steel corrosion-resistant coating; Piston rod: Hardened stainless steel

Damping medium: Oil, temperature stable

Application field: Linear slides, Pneumatic cylinders, Swivel units, Handling modules

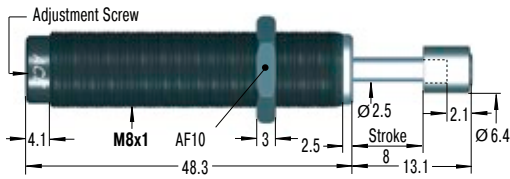
Note: If precise end position datum is required consider use of the stop collar type AH. Shock absorber is preset at delivery in a neutral position between hard and soft.

Safety instructions: External materials in the surrounding area can attack the rolling diaphragm seal and lead to a shorter service

life. Please contact ACE for appropriate solution suggestions.

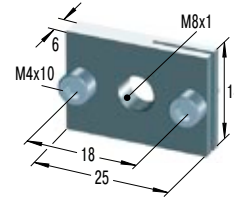
On request: Nickel-plated or other special options available to special order. Models without rod end button.

MA30EUM



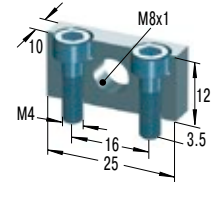
RF8

Rectangular Flange

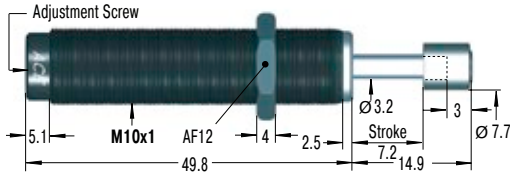


MB8SC2

Mounting Block

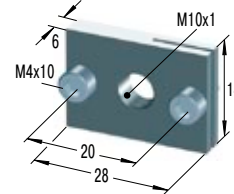


MA50EUM



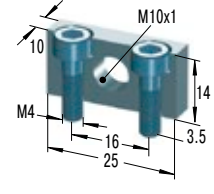
RF10

Rectangular Flange

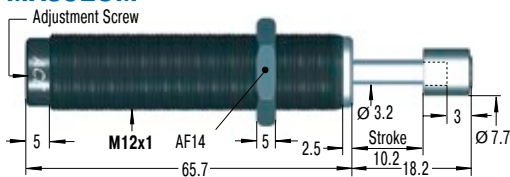


MB10SC2

Mounting Block

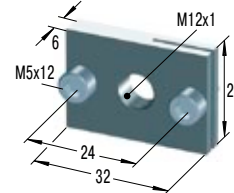


MA35EUM



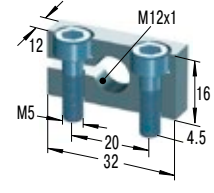
RF12

Rectangular Flange

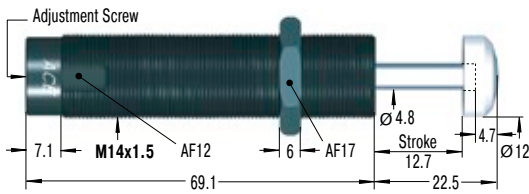


MB12

Clamp Mount



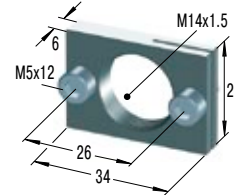
MA150EUM



M14x1 also available to special order

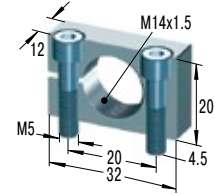
RF14

Rectangular Flange

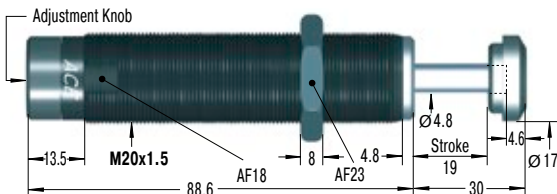


MB14

Clamp Mount

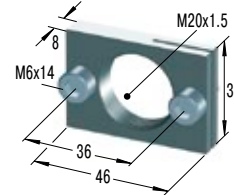


MA225EUM



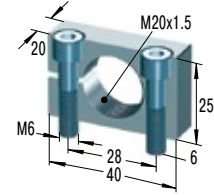
RF20

Rectangular Flange

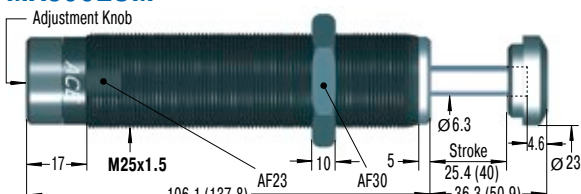


MB20

Clamp Mount



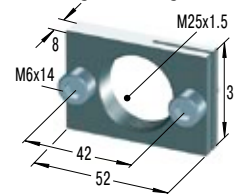
MA600EUM



Dimensions for MA900EUM in (). MA600EUM with M27x3 available to special order

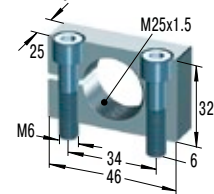
RF25

Rectangular Flange



MB25

Clamp Mount



Additional accessories, mounting, installation ... see from page 36.

Performance

TYPES	Max. Energy Capacity		Effective Weight		Return force min. N	Return force max. N	Return time s	Side Load Angle max. °	Weight kg
	W ₃ Nm/cycle	W ₄ Nm/h	me min. kg	me max. kg					
MA30EUM	3.5	5,650	0.23	15	1.7	5.3	0.3	2.0	0.013
MA50EUM	5.5	13,550	4.50	20	3.0	6.0	0.3	2.0	0.025
MA35EUM	4.0	6,000	6.00	57	5.0	11.0	0.2	2.0	0.043
MA150EUM	22.0	35,000	1.00	109	3.0	5.0	0.4	2.0	0.060
MA225EUM	25.0	45,000	2.30	226	5.0	10.0	0.1	2.0	0.130
MA600EUM	68.0	68,000	9.00	1,360	10.0	30.0	0.2	2.0	0.310
MA900EUM	100.0	90,000	14.00	2,040	10.0	35.0	0.4	1.0	0,400

¹ For applications with higher side load angles consider using the side load adaptor (BV) pages 38 to 45.