

MA30 to MA900

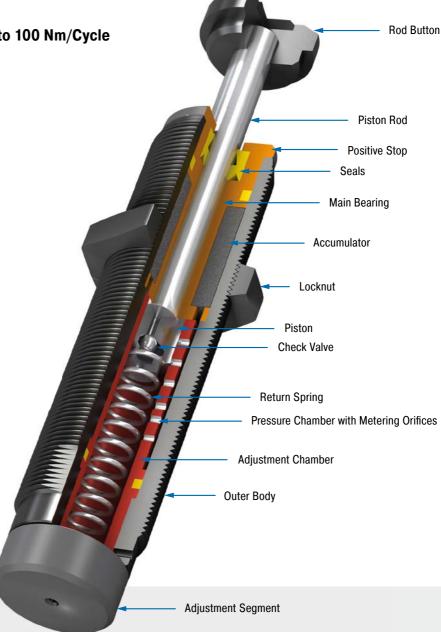
Stepless adjustment

Adjustable
Energy capacity 3.5 Nm/Cycle to 100 Nm/Cycle
Stroke 8 mm to 40 mm

The miniature shock absorbers from the MA30 to MA900 product family can be adjusted and precisely adapted to your requirements. For example, the MA150 displays the rolling diaphragm technology from the MC150 to MC600 family 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 maintenancefree, 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.

These adjustable miniature shock absorbers from ACE can be used to precisely meet the customer's application needs and are therefore found everywhere in industrial, automation and machine 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, Machines and plants, Finishing and processing centers, Automatic machinery, Tool machines, Locking systems

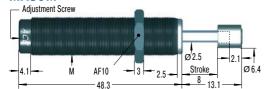
Note: If precise end position data is required consider use of a stop collar. Shock absorber is preset at delivery in a neutral position between hard and soft.

Safety information: External materials in the surrounding area can attack the seal components and lead to a shorter service life. Please contact ACE for appropriate solution suggestions. Do not paint the shock absorbers due to heat emission.

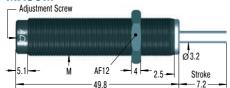
On request: Nickel-plated or other special options available to special order. Models without rod end button.

Adjustable

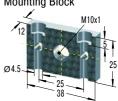
MA30M



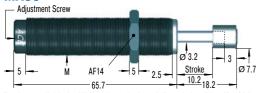
MA50M



250-0307 Mounting Block

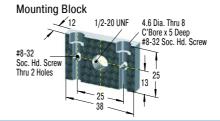


MA35

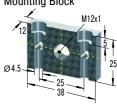


Product available for UNF and metric thread (for metric add suffix -M from part number)

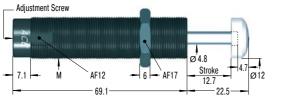
250-0308



250-0309 Mounting Block

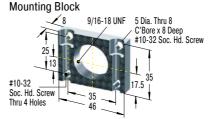


MA150

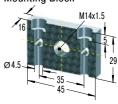


Product available for UNF and metric thread (for metric add suffix -M from part number) M14x1 also available to special order

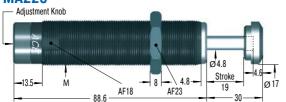
250-0318



250-0352 Mounting Block

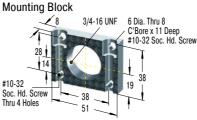


MA225

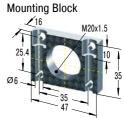


Product available for UNF and metric thread (for metric add suffix -M from part number)

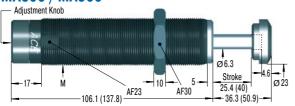
250-0401



250-0353

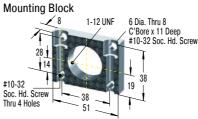


MA600 / MA900



Product available for UNF and metric thread (for metric add suffix -M from part number) Dimensions for MA900M in ().

250-0402



250-0044

Mounting Block

16

M25x1.5

25.4

Ø 6

35

47

Additional acessories, mounting, installation ... starting on page 40.

Performance

	Max. Energ	Max. Energy Capacity		Effective Weight						
TYPES	E ₃ Nm/cycle	E ₄ Nm/h	We min.	We max. kg	Return Force min.	Return Force max. N	Return Time s	¹ Side Load Angle max.	М	Weight kg
MA30M	3.5	5,650	0.23	15	1.7	5.3	0.3	2	M8x1	0.013
MA50M	5.5	13,550	4.5	20	3	6	0.3	2	M10x1	0.025
MA35	4	6,000	6	57	5	11	0.2	2	1/2-20 UNF / M12x1	0.043
MA150	22	35,000	1	109	3	5	0.4	2	9/16-18 UNF / M14x1.5	0.061
MA225	25	45,000	2.30	226	5	10	0.4	2	3/4-16 UNF / M20x1.5	0.173
MA600	68	68,000	9	1,360	10	30	0.2	2	1-12 UNF / M25x1.5	0.352
MA900	100	90,000	14	2,040	10	35	0.4	1	1-12 UNF / M25x1.5	0.414

¹ For applications with higher side load angles consider using the side load adaptor, pages 44 to 49.