MC5 to MC75

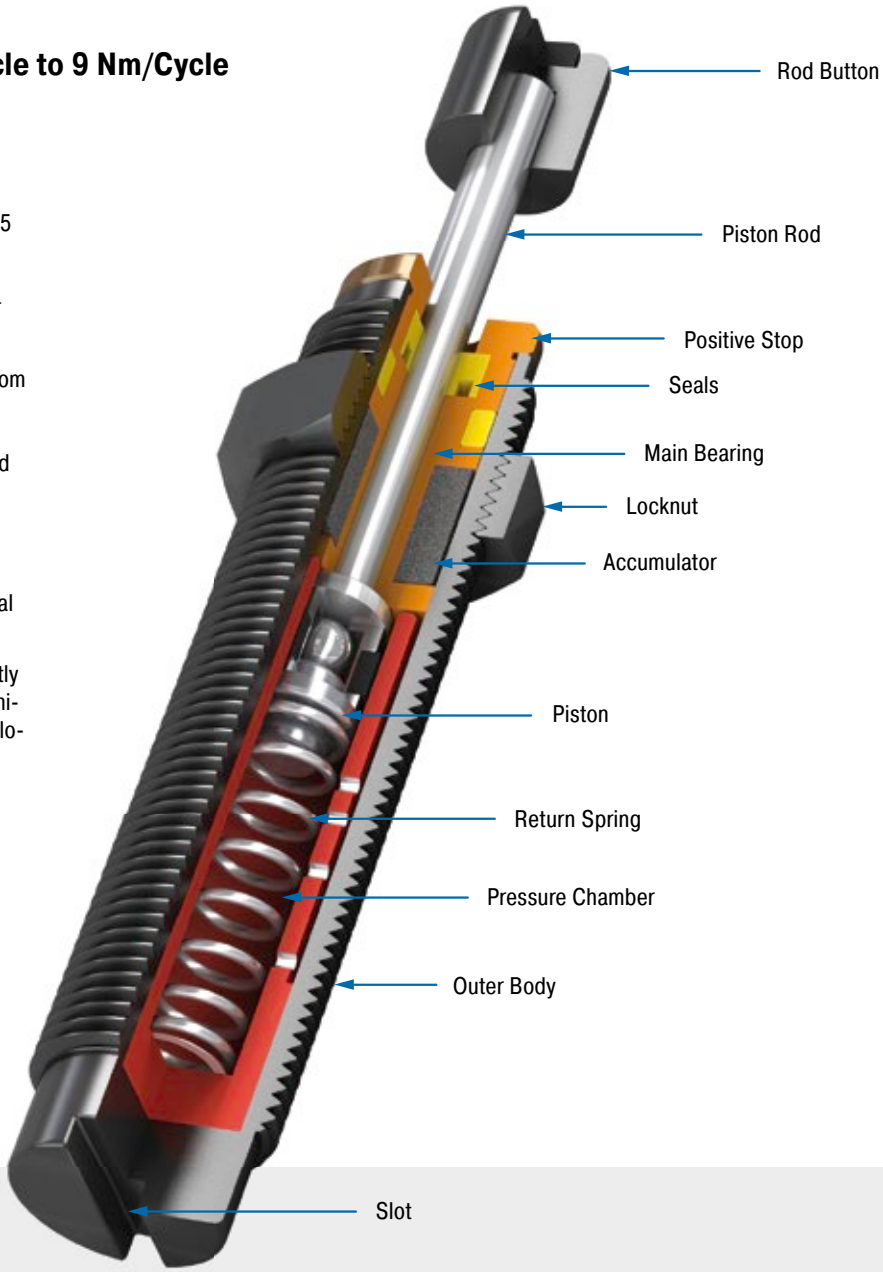
Shock absorbers in miniature format

Self-Compensating
Energy capacity 0.68 Nm/Cycle to 9 Nm/Cycle
Stroke 4 mm to 10 mm

Ideal for compact, efficient designs: The MC5 to MC75 series impresses users with their reduced dimensions and their very short overall lengths and low resetting forces after braking.

The outer body of each damper, produced from one solid piece, are filled with temperature stable oil, offer a continuous thread incl. a supplied lock nut and also have an integrated positive stop. These hydraulic machine elements from ACE, are ready for immediate installation and are maintenance-free. A comprehensive range of energy absorption with a wide range of effective weight potential are further benefits in these minature units.

These miniature shock absorbers are perfectly suited to use in applications such as mechanical engineering, medical and electro-technology and robotics.



Technical Data

Energy capacity: 0.68 Nm/Cycle to 9 Nm/Cycle

Impact velocity range: 0.15 m/s to 4 m/s

Operating temperature range: -10 °C to +66 °C

Mounting: In any position

Positive stop: Integrated

Material: Outer body, Accessories: Steel corrosion-resistant coating; Piston rod: hardened stainless steel; Rod end button: Steel, MC25 and MC75: Elastomer Insert; Locknut: Steel, MC5 and MC9: Aluminium

Damping medium: Oil, temperature stable

Application field: Miniature slides, Pneumatic cylinders, Handling modules, Copiers, Measuring tables, Machines and plants, Locking systems

Note: If precise end position datum is required consider use of the stop collar type AH.

Safety instructions: 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: Increased corrosion protection. Special finishes. Models without rod end button also available on request.

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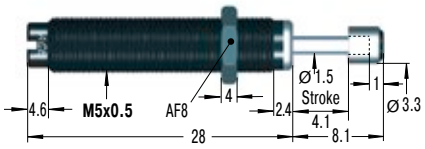
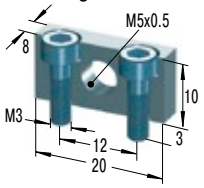
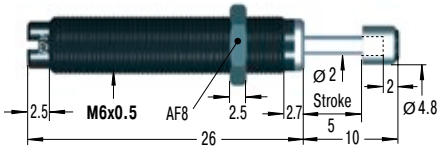
MC5EUM



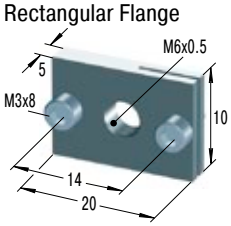
MB5SC2
Mounting Block



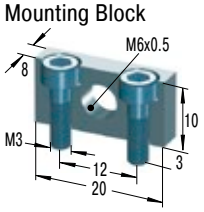
MC9EUM



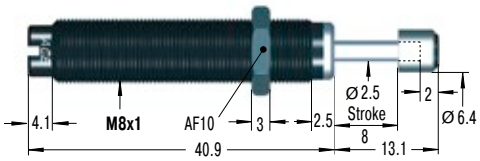
RF6
Rectangular Flange



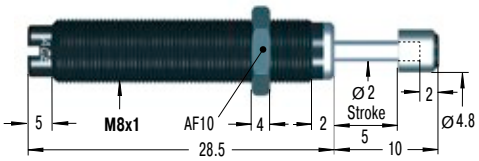
MB6SC2
Mounting Block



MC30EUM for use on new installations

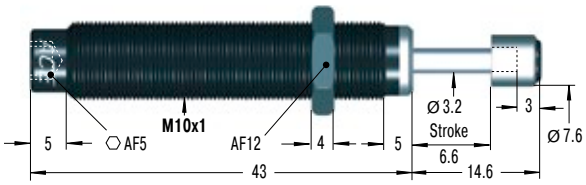


MC10EUM still available in future

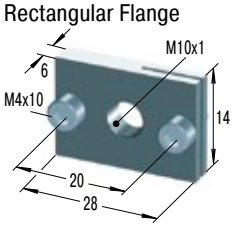


M8x0.75 also available to order

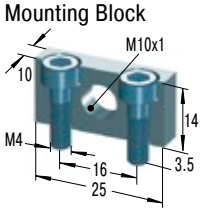
MC25EUM



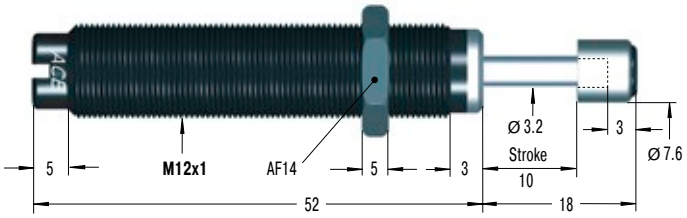
RF10
Rectangular Flange



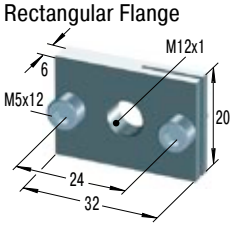
MB10SC2
Mounting Block



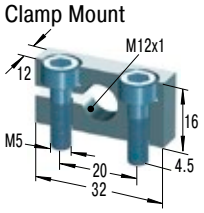
MC75EUM



RF12
Rectangular Flange



MB12
Clamp Mount



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

Performance

TYPES	Max. Energy Capacity W_3 Nm/cycle	Max. Energy Capacity W_4 Nm/h	Effective Weight me min. kg	Effective Weight me max. kg	Return Force min. N	Return Force max. N	Return Time s	[1] Side Load Angle max. °	Weight kg
MC5EUM-1-B	0.68	2,040	0.5	4.4	1	5	0.2	2	0.003
MC5EUM-2-B	0.68	2,040	3.8	10.8	1	5	0.2	2	0.003
MC5EUM-3-B	0.68	2,040	9.7	18.7	1	5	0.2	2	0.003
MC9EUM-1-B	1	2,000	0.6	3.2	2	4	0.3	2	0.004
MC9EUM-2-B	1	2,000	0.8	4.1	2	4	0.3	2	0.004
MC10EUML-B	1.25	4,000	0.3	2.7	2	4	0.6	3	0.007
MC10EUMH-B	1.25	4,000	0.7	5	2	4	0.6	3	0.007
MC25EUML	2.8	22,600	0.7	2.2	3	6	0.3	2	0.020
MC25EUM	2.8	22,600	1.8	5.4	3	6	0.3	2	0.020
MC25EUMH	2.8	22,600	4.6	13.6	3	6	0.3	2	0.020
MC30EUM-1	3.5	5,600	0.4	1.9	2	6	0.3	2	0.010
MC30EUM-2	3.5	5,600	1.8	5.4	2	6	0.3	2	0.010
MC30EUM-3	3.5	5,600	5	15	2	6	0.3	2	0.010
MC75EUM-1	9	28,200	0.3	1.1	4	9	0.3	2	0.035
MC75EUM-2	9	28,200	0.9	4.8	4	9	0.3	2	0.035
MC75EUM-3	9	28,200	2.7	36.2	4	9	0.3	2	0.035
MC75EUM-4	9	28,200	25	72	4	9	0.3	2	0.035

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

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