

**Miniature Shock Absorbers MC 9 to MC 75**  
**Self-Compensating**

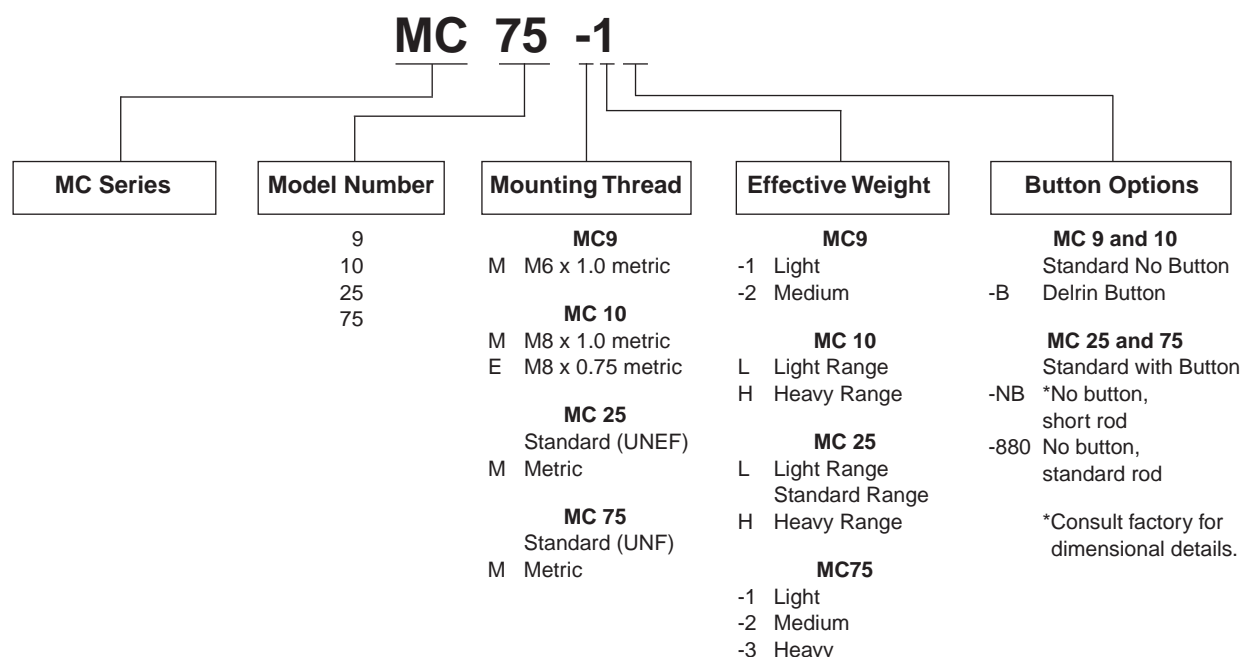


**Miniature Shock Absorbers**

are self-contained hydraulic units. The MC 9 to MC 75 model range has a very short overall length and low return force. Its small size allows for high energy absorption in confined spaces, while the wide effective weight ranges accommodate a variety of load conditions. With threaded outer bodies and multiple accessories, MC models can be mounted in numerous configurations.

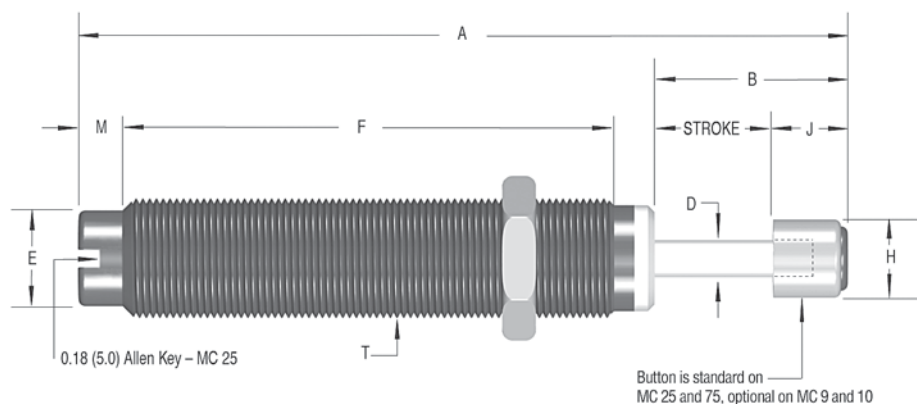
Applications include: small linear slides, material handling and packaging equipment, small robotics, office and medical equipment, as well as instrumentation.

**Ordering Information**



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**Miniature Shock Absorbers MC 9 to MC 75**  
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Dimensions In Inches (Millimeters)													
Model	Stroke	A	B	C	D	E	F	H	J	M	T	EE	FF
MC 9M	.20 (5.0)	1.42 (36.0)	.40 (10.0)	N/A	.08 (2.0)	.20 (5.0)	.83 (21.1)	.19 (4.7)	.20 (5.0)	.10 (2.5)	M6x0.5	N/A	N/A
MC 10E MC 10M	.20 (5.0)	1.52 (38.6)	.40 (10.0)	N/A	.08 (2.0)	.25 (6.4)	.83 (21.1)	.19 (4.7)	.20 (5.0)	.19 (4.8)	M8x0.75 M8x1	N/A	N/A
MC 25 MC 25M	.26 (6.6)	2.27 (57.7)	.57 (14.5)	N/A	.13 (3.3)	.33 (8.4)	1.3 (33.0)	.30 (7.6)	.32 (8.1)	.20 (5.0)	3/8-32 UNEF M10x1	N/A	N/A
MC 75 MC 75M	.40 (10.2)	2.76 (70.1)	.72 (18.1)	N/A	.13 (3.3)	.41 (10.4)	1.74 (44.2)	.30 (7.6)	.32 (8.1)	.18 (4.6)	1/2-20 UNF M12x1	N/A	N/A

Specifications							
Model	We Effective Weight lbs (kg)		E <sub>3</sub> Energy per Cycle in lbs (Nm)	E <sub>4</sub> Energy per Hour in lbs/hour (Nm/hour)	Return Force lbs (N)	Return Time sec	Shipping Weight lbs (kg)
MC 9M-1 MC 9M-2	1.35 - 7.0 1.75 - 9.0	(0.6 - 3.2) (0.8 - 4.1)	9.0 (1.0)	18,000 (2,000)	0.31 - 0.85 (1.38-3.78)	0.30	0.01 (0.004)
MC 10L MC 10H	0.75 - 6.0 1.5 - 11	(0.34 - 3) (0.68 - 5)	4.0 (0.45) 7.0 (0.79)	35,000 (3,950)	0.5 - 1.0 (2.22 - 4.45)	0.20	.02 (0.01)
MC 25L MC 25 MC 25H	1.5 - 5.0 4 - 12 10 - 30	(0.70 - 2) (2 - 5) (5 - 14)	20 (2)	120,000 (13,550)	0.8 - 1.7 (3.56 - 7.56)	0.20	.06 (0.03)
MC 75-1 MC 75-2 MC 75-3	.5 - 2.5 2 - 14 6 - 80	(0.23 - 1) (0.91 - 6) (3 - 36)	75 (8)	250,000 (28,240)	1.0 - 2.5 (4.45 - 11.12)	0.30	.09 (0.04)

**Technical Data**

**Impact velocity range:**

**MC 9:** 0.5 to 6 ft/sec (0.15 to 1.8 m/sec)  
**MC 10:** 0.5 to 5 ft/sec (0.15 to 1.5 m/sec)  
**MC 25:** 0.5 to 8 ft/sec (0.15 to 2.4 m/sec)  
**MC 75:** 0.5 to 12 ft/sec (0.15 to 3.66 m/sec)

**Operating temperature:**

**MC 9 and MC 10:** 14° to 158°F (-10° to 70°C)  
**MC 25:** 32° to 150°F (0° to 66°C)  
**MC 75:** 32° to 150°F (0° to 66°C)

**Mechanical stop:** Integral mechanical stop built into front of units.

**Oil type:** Silicone

**Materials:** Steel body with black oxide finish.  
 Hardened stainless steel piston rod.

Technical data applies to standard and metric threaded models.  
 Maximum side load depends on application. For additional information contact The Actuator Division.

Lock nut included with each shock absorber.

Note: All dimensions and tolerance values listed in this catalog are nominal and subject to change without notice.