

Miniature Shock Absorbers MC 150 to MC 600
Self-Compensating

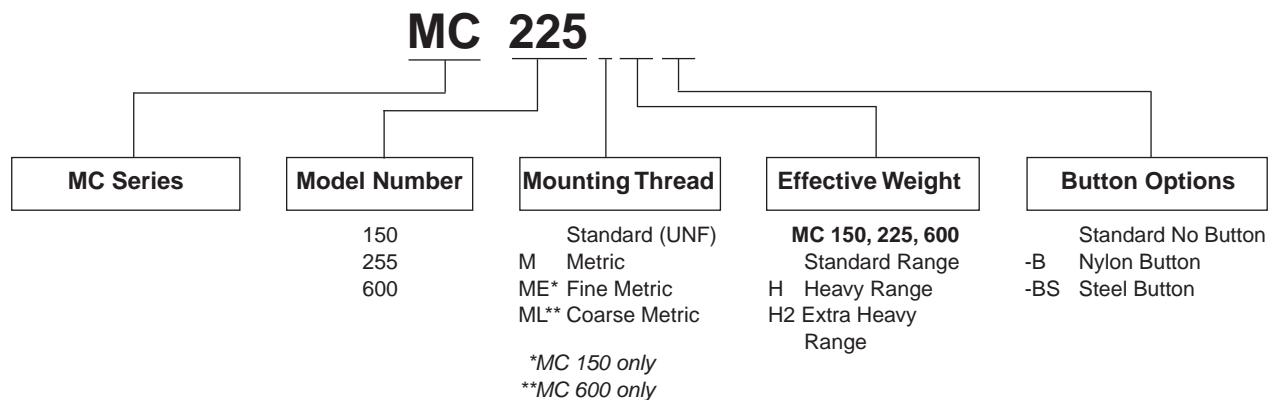


Miniature Shock Absorbers

MC 150 to MC 600 model range, feature a hermetically sealed rolling diaphragm seal system that provides the highest possible cycle lifetime and an extremely low rod return force. These models can be directly mounted into the end cover of pneumatic cylinders to provide superior damping compared to normal cylinder cushions. Use of the optional stop collar is recommended to provide a positive mechanical stop. By adding the optional side load adapter (metric threaded models only), it is possible to accept side loads up to 25° from the axis.

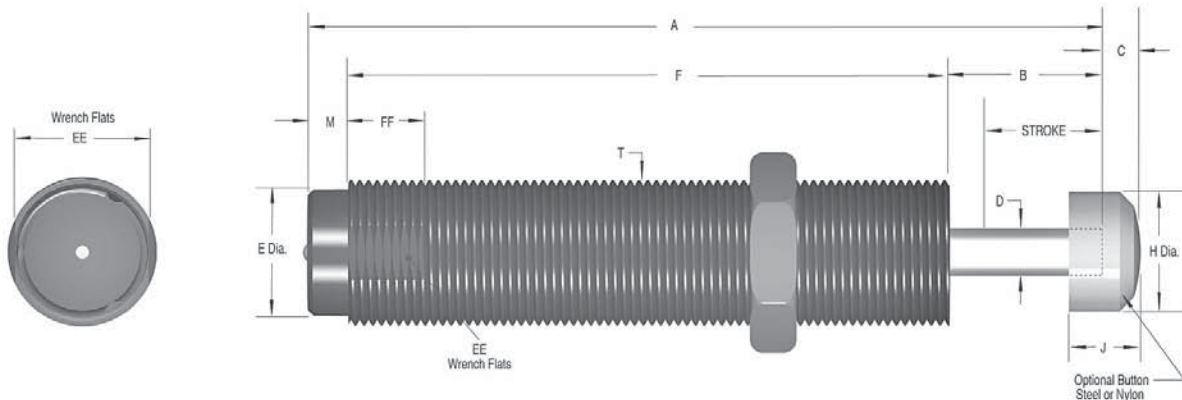
Applications for the durable MC Series include: material handling, medium robotics, machine tools, pick and place systems, as well as packaging equipment.

Ordering Information



N

Miniature Shock Absorbers MC 150 to MC 600
Self-Compensating



Dimensions In Inches (Millimeters)													
Model	Stroke	A	B	C	D	E	F	H	J	M	T	EE	FF
MC 150 MC 150M MC 150ME	.50 (12.8)	3.41 (86.6)	.69 (17.5)	.18 (4.6)	.19 (4.8)	.46 (11.6)	2.44 (62.0)	.47 (11.9)	.39 (9.9)	.28 (7.1)	9/16-18 UNF M14x1.5 M14x1	.500 (12.0)	.50 (12.7)
MC 225 MC 225M MC 225ME	.50 (12.8)	3.81 (96.8)	.69 (17.5)	.16 (4.1)	.25 (6.4)	.66 (16.7)	2.84 (72.1)	.66 (16.8)	.36 (9.1)	.28 (7.1)	3/4-16 UNF M20x1.5 M20x1	.687 (18.0)	.50 (12.7)
MC 600 MC 600M MC 600ML	1.00 (25.4)	5.58 (141.8)	1.24 (31.6)	.23 (5.8)	.31 (7.9)	.87 (22.0)	4.06 (103.1)	.89 (22.6)	.47 (11.9)	.28 (7.1)	1-12 UNF M25x1.5 M27x3	.875 (23.0)	.50 (12.7)

Specifications							
Model	We Effective Weight lbs (kg)		E ₃ Energy per Cycle in lbs (Nm)	E ₄ Energy per Hour in lbs/hour (Nm/hour)	Return Force lbs (N)	Return Time sec	Shipping Weight lbs (kg)
MC 150 MC 150H MC 150H2	2 - 22 20 - 200 150 - 450	(0.91 - 10) (9 - 91) (68 - 204)	150 (17) (280)* (32)*	300,000 (33,890)	0.70 - 1.20 (3.11 - 5.34)	0.40	.12 (0.05)
MC 225 MC 225H MC 225H2	5 - 55 50 - 500 400 - 2,000	(2 - 25) (23 - 227) (181 - 907)	225 (25) (380)* (43)*	400,000 (45,190)	1.00 - 1.50 (4.45 - 6.67)	0.30	.34 (0.15)
MC 600 MC 600H MC 600H2	20 - 300 250 - 2,500 880 - 5,000	(9 - 136) (113 - 1,134) (399 - 2,268)	600 (88) (1,300)* (147)*	600,000 (67,790)	1.00 - 2.00 (4.45 - 8.90)	0.60	.57 (0.26)

*Hydro shock energy ratings. Consult factory.

Technical Data

Impact velocity range: 0.26 to 19.7 ft/sec (0.08 to 6 m/sec)

Operating temperature: 32° to 150°F (0° to 66°C)

Mechanical stop: Must be provided 0.02 to 0.04 inch (0.5 to 1 mm) before end of stroke.

Oil type: Silicone

Materials: Steel body with black oxide finish. Hardened stainless steel piston rod. Rolling seal EPDM (note: seal not compatible with petroleum based fluids) If unit to be used in contact with such fluids specify neoprene rolling seal. Consider the SC² Series as an alternative.

To prevent damage to the rolling seal in MC 150, 225 and 600 models, do not twist or turn the 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: MC 150 to MC 600 models may be mounted into pressure chambers of pneumatic actuators.