

hardened and chrome plated. Rod end button: Hardened steel with black heat dissipation do not paint shock absorber.

Capacity rating: For emergency use only applications it is sometimes possible to exceed the published max. capacity ratings. Please consult ACE for further details. If your application exceeds the tabulated W₄

figures (max. energy per hour Nm/hr) consider additional cooling. Ask ACE for further details.

Mounting: In any position

Operating temperature range: -12 °C to 70 °C. Higher and lower temperatures see pages 50 to 51.

On request: Plated finishes. Weartec finish (seawater resistant), special oils. Mounting inside air cylinders and other special options are available on request.

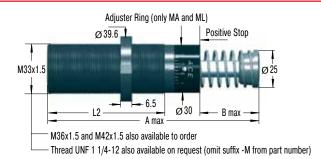
Noise reduction: 3 to 7 dB when using the impact buttons with urethane insert.



ACE

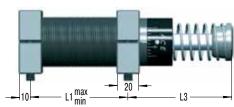
Industrial Shock Aborbers MC/MA/ML33

Self-Compensating and Adjustable





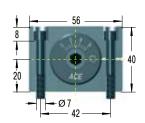




Side Foot Mounting Kit

S33 = 2 flanges + 4 screws M6x40, DIN 912

Because of the thread pitch the fixing holes for the second foot mount should only be drilled and tapped after the first foot mount has been fixed in position.



Tightening torque: 11 Nm Clamping torque: > 90 Nm

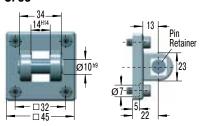
C33



Clevis Mounting Kit

C33=2 clevis eyes. Delivered assembled to shock absorber. Use positive stop at both ends of travel.

SF33



Clevis Flange

SF33 = flange + 4 screws M6x20, DIN 912

Tightening torque: 7.5 Nm Clamping torque > 50 Nm

Secure with pin or use additional bar. Due to limited force capacity the respective ability should be reviewed by ACE.

Dimensions												
Туре	¹ Stroke mm	A max	B max	L1 min	L1 max	L2	L3	L5 max	L6 max			
MC, MA, ML3325M	25	138	23	25	60	83	68	39	168			
MC, MA, ML3350M	50	189	48.5	32	86	108	93	64	218			

¹ Nominal stroke length (without integral stop collar fitted).

Capacity Chart MC33

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	Max. Energy Capacity				¹ Effective Weight me									
					Soft				Hard					
Туре	2 W ₃	W ₄	W ₄ with	W ₄ with	◀				-	Min.	Max.	Rod	Max.	Weight
Self-Com-	Nm/Cycle	Self-Con-	Air/Oil	Oil Recir-	-0	-1	-2	-3	-4	Return	Return	Reset	Side Load	kg
pensating		tained	Tank	culation	min. max.	min. max.	min. max.	min. max.	min. max.	Force	Force	Time	Angle	
		Nm/h	Nm/h	Nm/h	kg	kg	kg	kg	kg	N	N	s	•	
MC3325M	155	75 000	124 000	169 000	3 - 11	9 - 40	30 - 120	100 - 420	350 - 1 420	45	90	0.03	4	0.45
MC3350M	310	85 000	135 000	180 000	5 - 22	18 - 70	60 - 250	210 - 840	710 - 2 830	45	135	0.06	3	0.54

Capacity Chart MA/ML33

	Max. Energy Capacity				¹ Effective Weight me						
Type Adjustable	² W ₃ Nm/Cycle	W ₄ Self-Con- tained Nm/h	W ₄ with Air/Oil Tank Nm/h	W ₄ with Oil Recir- culation Nm/h	min. max. kg	Min. Return Force N	Max. Return Force N	Rod Reset Time s	Max. Side Load Angle	Weight kg	
MA3325M	170	75 000	124 000	169 000	9 - 1700	45	90	0.03	4	0.45	
ML3325M	170	75 000	124 000	169 000	300 - 50 000	45	90	0.03	4	0.45	
MA3350M	340	85 000	135 000	180 000	13 - 2 500	45	135	0.06	3	0.54	
ML3350M	340	85 000	135 000	180 000	500 - 80 000	45	135	0.06	3	0.66	

¹ The effective weight range limits can be raised or lowered to special order.

² For emergency use only applications it is sometimes possible to exceed the above ratings. Please consult ACE for further details. Specifications relate to the effective stroke length (B max).