

SC33 to SC45

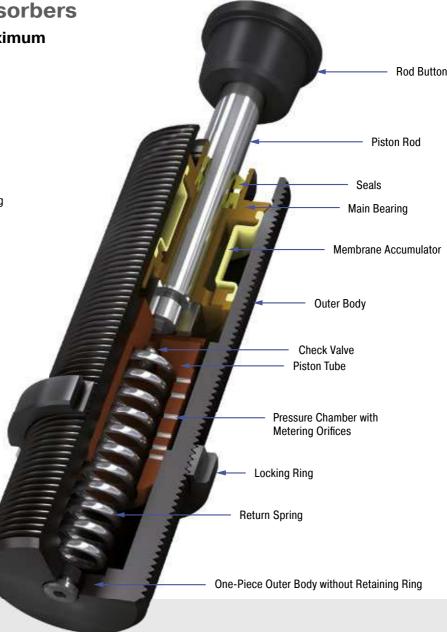
Industrial Shock Absorbers

Piston tube design for maximum energy absorption

True performers: The combination the proven sealing technology from the MAGNUM series including membrane accumulator with the well-known piston tube technology from the SC² family makes the SC33 to 45 absorber models so strong and durable. The increase of the oil volume ensures the maximum braking forces. Short stroke lengths of 25 to 50 mm lead to shorter braking times in combination with a high energy absorption.

These dampers safely and reliably decelerate rotary movements without unwanted recoil effects. Assembly close to the pivot point is possible. The low impact speeds with this are managed with ease by ACE's generation of piston tubes.

These self-compensating industrial shock absorbers can be relied on in mechanical engineering. They are used in pivot units, rotary tables, robot arms or integrated else where in construction designs.



Technical Data

Energy capacity: 155 Nm/Cycle to

680 Nm/Cycle

Impact velocity range: 0.02 m/s to 0.46 m/s. Other speeds on request.

Operating temperature range: -12 °C to +66 °C. Other temperatures on request.

Mounting: In any position **Positive stop:** In any position

Material: Outer body: Nitride hardened steel; Piston rod: Hard chrome plated steel; Rod end button: Hardened steel and corrosion-resistant coating; Accessories: Steel with black oxide

finish or nitride hardened

Damping medium: Low temperature

hydraulic oil

Application field: Turntables, Swivel units, Robot arms, Linear slides

Note: A noise reduction of 3 to 7 dB is possible when using the special impact button (PP).

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.

heat emission.

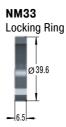
On request: Special oils, mounting inside air cylinders or other special options are available on request.



Self-Compensating, Piston Tube Technology

SC33EUM







Torque max.: 11 Nm Clamping torque: > 90 Nm Install with 4 machine screws

The calculation and selection of the most suitable damper should be carried out or be approved by ACE.

Ordering Example	SC3325EUM-5			
Self-Compensating				
Thread Size M33				
Stroke 25 mm				
EU Compliant				
Metric Thread				
(omitted when using thread UNF 1 1/4-12) Effective Weight Range Version				

Dimensions			
	Stroke	A max.	L2
TYPES	mm	mm	mm
SC3325EUM	23.2	178	122
SC3350EUM	48.6	254	173

Performance										
	Max. Energ	nergy Capacity Effective Weight								
TYPES	W ₃ Nm/cycle	W₄ Nm/h	¹ me min. kg	¹ me max. kg	Hardness	Return force min.	Return force max.	Return time	² Side Load Angle max.	Weight kg
SC3325EUM-5	155	75,000	1,360	2,721	-5	44	89	0.75	4	1.13
SC3325EUM-6	155	75,000	2,500	5,443	-6	44	89	0.75	4	1.13
SC3325EUM-7	155	75,000	4,989	8,935	-7	44	89	0.75	4	1.13
SC3325EUM-8	155	75,000	8,618	13,607	-8	44	89	0.75	4	1.13
SC3350EUM-5	310	85,000	2,721	4,990	-5	51	125	0.90	3	1.36
SC3350EUM-6	310	85,000	4,536	9,980	-6	51	125	0.90	3	1.36

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

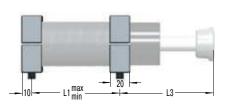
² For applications with higher side load angles consider using the side load adaptor (BV) pages 74 to 77.

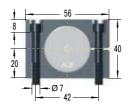
ACE

Overview

M33x1.5

\$33Side Foot Mounting Kit





Dimensions			
	L1 min.	L1 max.	L3
TYPES	mm	mm	mm
MC, MA, ML3325EUM	25	60	68
MC, MA, ML3350EUM	32	86	93
SC3325EUM	40	98	66
SC3350EUM	60	153	92

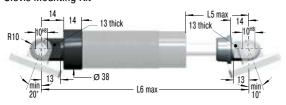
S33 = 2 flanges + 4 screws M6x40, DIN 912

Torque max.: 11 Nm

Clamping torque: 90 Nm

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.

C33 Clevis Mounting Kit

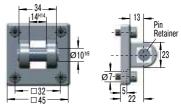


C33 = 2 clevis eyes. Delivered assembled to shock absorber.
Use positive stop at both ends of travel.

Dimensions						
	L5 max.	L6 max				
TYPES	mm	mm				
MC, MA, ML3325EUM	39	168				
MC, MA, ML3350EUM	64	218				
SC3325EUM	39	208				
SC3350EUM	64	283				

SF33

Clevis Flange



SF33 = flange + 4 screws M6x20, DIN 912 Torque max.: 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.

M33x1.5

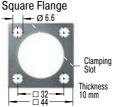
NM33 Locking Ring

PP33 Poly Button

A max 13.2 see shock absorber dims.

Supplied ready mounted onto the shock absorber.

QF33



Torque max.: 11 Nm Clamping torque: > 90 Nm Install with 4 machine screws

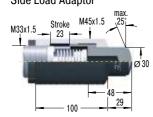
AS33

Switch Stop Collar



inc. Proximity Switch and Poly Button with elastomer insert

BV3325 Side Load Adaptor



BV3350 Side Load Adaptor



PB3325 Steel Shroud

1 A max 148
1 Ø 15
1 Ø 35
Stroke

¹ Total installation length of the shock absorber inc. steel shroud

PB3350



¹ Total installation length of the shock absorber inc. steel shroud