

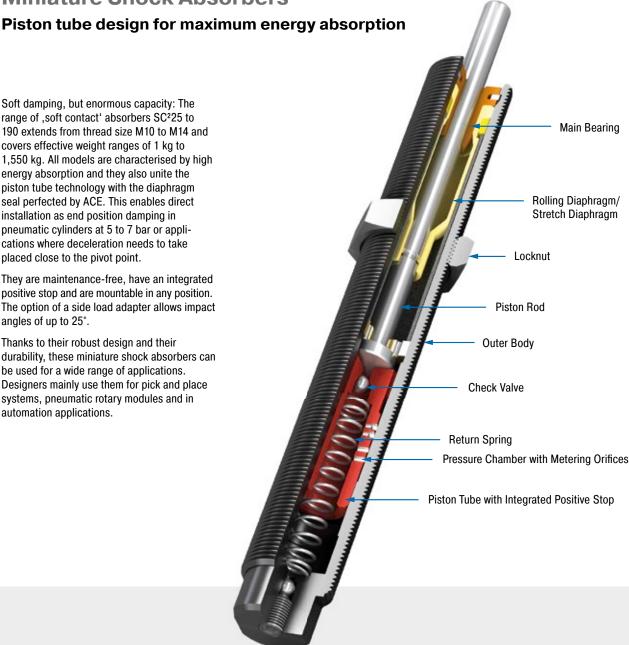
SC²25 to SC²190

Miniature Shock Absorbers

Soft damping, but enormous capacity: The range of ,soft contact' absorbers SC225 to 190 extends from thread size M10 to M14 and covers effective weight ranges of 1 kg to 1,550 kg. All models are characterised by high energy absorption and they also unite the piston tube technology with the diaphragm seal perfected by ACE. This enables direct installation as end position damping in pneumatic cylinders at 5 to 7 bar or applications where deceleration needs to take placed close to the pivot point.

They are maintenance-free, have an integrated positive stop and are mountable in any position. The option of a side load adapter allows impact angles of up to 25°.

Thanks to their robust design and their durability, these miniature shock absorbers can be used for a wide range of applications. Designers mainly use them for pick and place systems, pneumatic rotary modules and in automation applications.



Technical Data

Energy capacity: 10 Nm/Cycle to

31 Nm/Cycle

Impact velocity range: 0.1 m/s to 5.7 m/s.

Other speeds on request.

Operating temperature range: 0 °C to 66 °C

Mounting: In any position Positive stop: Integrated

Material: Outer body, Accessories: Steel corrosion-resistant coating; Piston rod: Hardened stainless steel; Rolling diaphragm: SC2190: EPDM; Stretch diaphragm: SC225

and SC275: Nitrile

Damping medium: Oil, temperature stable

Application field: Linear slides, Pneumatic cylinders, Swivel units, Handling modules

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

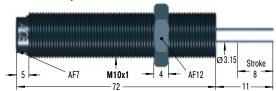
Safety instructions: External materials in the surrounding area can attack the rolling and stretch seals and lead to a shorter service life. Please contact ACE for appropriate solution suggestions.

On request: Increased corrosion protection. Special finishes.



Self-Compensating, Piston Tube Technology

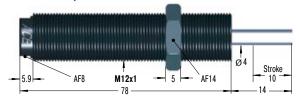
SC25EUM; 5 to 7







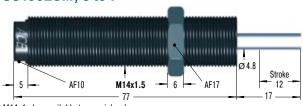
SC75EUM; 5 to 7







SC190EUM; 5 to 7



M14x1 also available to special order

 ${\bf Additional\ accessories,\ mounting,\ installation\ ...\ see\ from\ page\ 36.}$

Performance											
	Max. Energy Capacity		Effective Weight								
								¹ Side Load Angle			
TYPES	W ₃ Nm/cycle	W₄ Nm/h	me min. kg	me max. kg	Hardness	Return force min. N	Return force max. N	Return time s	max.	Weight kg	
SC25EUM-5	10	16,000	1	5	-5	4.5	14	0.3	2	0.027	
SC25EUM-6	10	16,000	4	44	-6	4.5	14	0.3	2	0.027	
SC25EUM-7	10	16,000	42	500	-7	4.5	14	0.3	2	0.027	
SC75EUM-5	16	30,000	1	8	-5	6.0	19	0.3	2	0.045	
SC75EUM-6	16	30,000	7	78	-6	6.0	19	0.3	2	0.045	
SC75EUM-7	16	30,000	75	800	-7	6.0	19	0.3	2	0.045	
SC190EUM-5	31	50,000	2	16	-5	6.0	19	0.4	2	0.060	
SC190EUM-6	31	50,000	13	140	-6	6.0	19	0.4	2	0.060	
SC190EUM-7	31	50,000	136	1,550	-7	6.0	19	0.4	2	0.060	

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