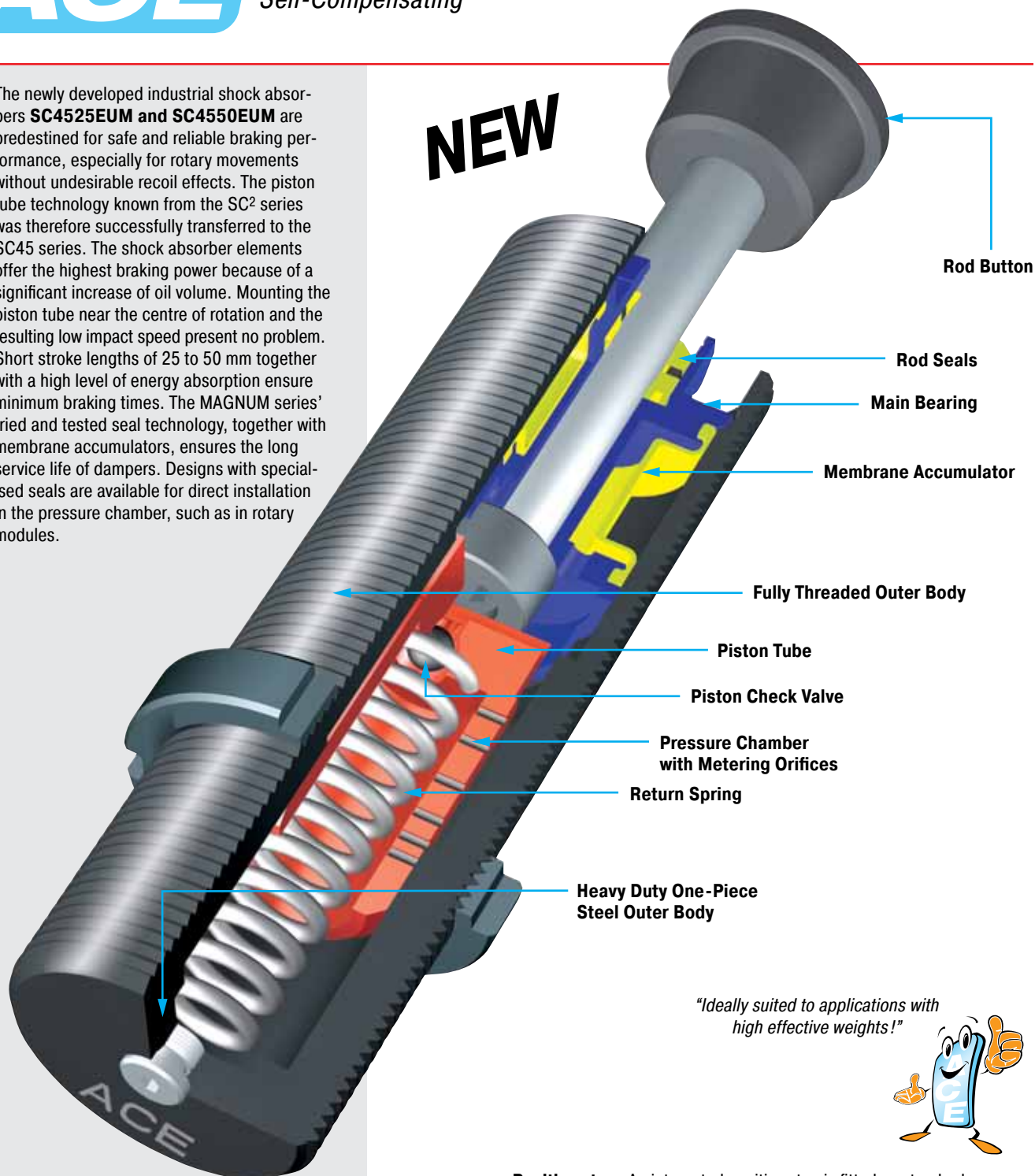


The newly developed industrial shock absorbers **SC4525EUM** and **SC4550EUM** are predestined for safe and reliable braking performance, especially for rotary movements without undesirable recoil effects. The piston tube technology known from the SC2 series was therefore successfully transferred to the SC45 series. The shock absorber elements offer the highest braking power because of a significant increase of oil volume. Mounting the piston tube near the centre of rotation and the resulting low impact speed present no problem. Short stroke lengths of 25 to 50 mm together with a high level of energy absorption ensure minimum braking times. The MAGNUM series' tried and tested seal technology, together with membrane accumulators, ensures the long service life of dampers. Designs with specialised seals are available for direct installation in the pressure chamber, such as in rotary modules.



*"Ideally suited to applications with high effective weights!"*



**Positive stop:** An integrated positive stop is fitted as standard (see page 53).

**Impact velocity range:** Ensure that effective weight of application is within the range of the unit chosen.

**Operating fluid:** Automatic Transmission Fluid (ATF)

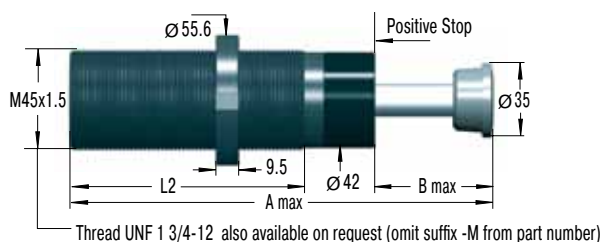
**Material:** Shock absorber body: Nitride hardened steel. Accessories: Steel with black oxide finish or nitride hardened. Piston rod: Steel hardened and chrome plated. Rod end button: Hardened steel with black oxide finish. For optimum heat dissipation do not paint shock absorber.

**Mounting:** In any position

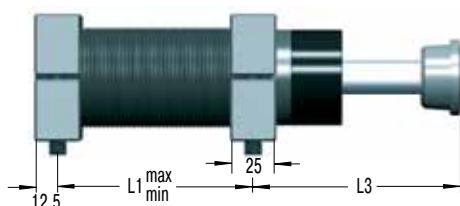
**Operating temperature range:** -12 °C to 70 °C. For other temperatures consult ACE.

**On request:** Special oils, mounting inside air cylinders and other special options.





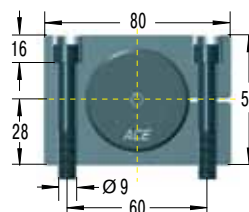
### S45



#### Side Foot Mounting Kit

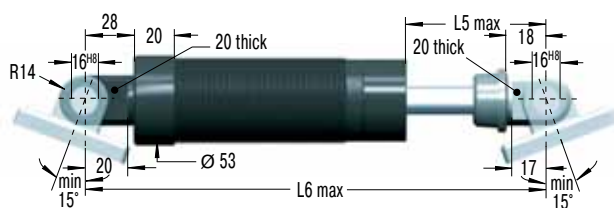
S45 = 2 flanges + 4 screws M8x50, DIN 912

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: 27 Nm  
Clamping torque: > 350 Nm

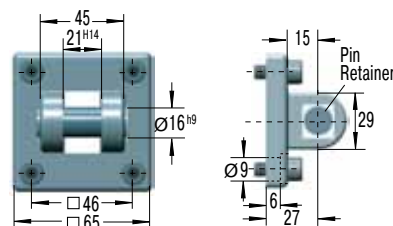
### C45



#### Clevis Mounting Kit

C45 = 2 clevis eyes. Delivered assembled to shock absorber.  
Use positive stop at both ends of travel.

### SF45



#### Clevis Flange

SF45 = flange + 4 screws M8x20, DIN 912

Tightening torque: 7.5 Nm

Clamping torque: > 140 Nm

**Secure with pin or use additional bar.**

**Due to limited force capacity the respective ability should be reviewed by ACE.**

### Dimensions

Type	Stroke mm	A max	B max	L1 min	L1 max	L2	L3	L5 max	L6 max
SC4525EUM	25	189	25	50	112	139	62.5	68	244
SC4550EUM	50	265	50	64	162	190	87.5	93	320

### Capacity Chart

Type Part Number	Max. Energy Capacity		1 Effective Weight me		Min. Return Force N	Max. Return Force N	Rod Reset Time s	Max. Side Load Angle °	Weight kg
	W <sub>3</sub> Nm/Cycle	W <sub>4</sub> Nm/h	me min. kg	me max. kg					
SC4525EUM-5	340	107 000	3 400	6 800	67	104	0.8	4	1.27
SC4525EUM-6	340	107 000	6 350	13 600	67	104	0.8	4	1.27
SC4525EUM-7	340	107 000	12 700	22 679	67	104	0.8	4	1.27
SC4525EUM-8	340	107 000	20 411	39 000	67	104	0.8	4	1.27
SC4550EUM-5	680	112 000	6 800	12 246	47	242	1.0	3	1.49
SC4550EUM-6	680	112 000	11 790	26 988	47	242	1.0	3	1.49
SC4550EUM-7	680	112 000	25 854	44 225	47	242	1.0	3	1.49

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