

Impact cycles per hour: max. 1

Life expectancy: Self-compensating version: max. 1000 cycles.

Optimised version: max. 5 cycles. **Impact velocity range:** On request

**Operating fluid:** Automatic Transmission Fluid (ATF) at 42cSt.

**Material:** Shock absorber body: Nitride hardened steel. Accessories: Steel with black oxide finish. Piston rod: Steel hardened and chrome plated. Rod end button: Hardened steel with black oxide finish. Return

Spring: Zinc plated or plastic-coated.

Energy capacity W<sub>3</sub>: At max. side load angle do not exceed 80% of rated max. energy capacity below.

**Mounting:** In any position

**Operating temperature range:** -12 °C to 70 °C. Higher temperatures on request.

In creep speed: The shock absorber can be pushed through its stroke. In creep speed conditions the shock absorber provides minimal resistance and there is no braking effect.





# M33x1.5 B A max Ø 30 Stroke —

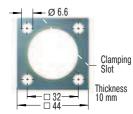
**Standard Dimensions** 

### NM33



Locking Ring

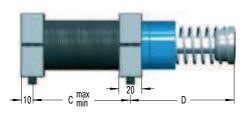
### QF33



Square Flange

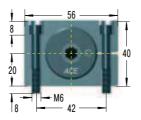
Install with 4 machine screws Tightening torque: 11 Nm Clamping torque: > 90 Nm

### **S33**





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 (screws) Clamping torque: > 90 Nm

### 

Please indicate identification no. in case of replacement order

### **Complete Details Required when Ordering**

Moving load	m	(kg)
Impact velocity range	V	(m/s) max.
Creep speed	vs	(m/s)
Motor power	Р	(kW)
Stall torque factor	ST	(normal 2.5)
Number of absorbers in parallel	n	

or technical data according to formulae and calculations on page 15 to 17.

The calculation and selection of the correct ACE safety shock absorber for your application should be referred to ACE for approval and assignment of unique identification number.

Dimensions	Dimensions and Capacity Chart													
							Max. Energ	y Capacity						
							Self-Compensating	Optimised Version						
Туре	Stroke	A max	В	C min	C max	D	$W_3$	$W_3$	Min. Return	Max. Return	Max. Side	Weight		
	mm						Nm/Cycle	Nm/Cycle	Force	Force	Load Angle	kg		
									N	N	0			
SCS33-25EU	23	138	83	25	60	68	310	500	45	90	3	0.45		
SCS33-50EU	48.5	189	108	32	86	93	620	950	45	135	2	0.54		

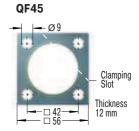
For other stroke lengths, special options (such as higher or lower impact velocity etc.), please consult ACE.

### M45x1.5 B A max A max Positive Stop A max

### **Standard Dimensions**

## NM45

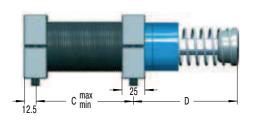
Locking Ring



### Square Flange

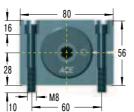
Install with 4 machine screws Tightening torque: 27 Nm Clamping torque: > 200 Nm

### **S45**





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 (screws) Clamping torque: > 350 Nm

### Ordering Example ScS45-50EU-S-1xxxx Safety Shock Absorber Thread Size M45 Max. Stroke without Positive Stop 50 mm EU Compliant Mounting Style: Foot Identification No. assigned by ACE

### Please indicate identification no. in case of replacement order

### **Complete Details Required when Ordering**

Moving load	m	(kg)
Impact velocity range	V	(m/s) max.
Creep speed	vs	(m/s)
Motor power	Р	(kW)
Stall torque factor	ST	(normal 2.5)
Number of absorbers in parallel	n	

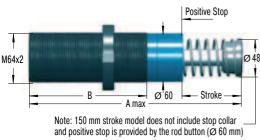
or technical data according to formulae and calculations on page 15 to 17.

The calculation and selection of the correct ACE safety shock absorber for your application should be referred to ACE for approval and assignment of unique identification number.

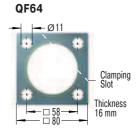
Dimensions and Capacity Chart													
							Max. Energ	y Capacity					
							Self-Compensating	Optimised Version					
Туре	Stroke <b>mm</b>	A max	В	C min	C max	D	W <sub>3</sub> Nm/Cycle	W <sub>3</sub> Nm/Cycle	Min. Return Force <b>N</b>	Max. Return Force <b>N</b>	Max. Side Load Angle	Weight <b>kg</b>	
SCS45-25EU	23	145	95	32	66	66	680	1 200	70	100	3	1.13	
SCS45-50EU	48.5	195	120	40	92	91	1 360	2 350	70	145	2	1.36	
SCS45-75EU	74	246	145	50	118	116	2 040	3 500	50	180	1	1.59	

For other stroke lengths, special options (such as higher or lower impact velocity etc.), please consult ACE.





# **NM64**



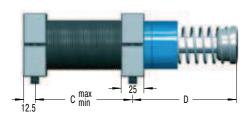
### Standard Dimensions

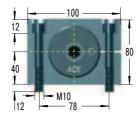
Locking Ring

Square Flange

Install with 4 machine screws Tightening torque: 50 Nm Clamping torque: > 210 Nm

### **S64**





### Side Foot Mounting Kit

S64 = 2 flanges + 4 screws M10x80, 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: 50 Nm (screws) Clamping torque: > 350 Nm

Ordering Example	SCS45-50EU-S-1xxxx								
Safety Shock Absorber		1	<b>† †</b>	<b>†</b>	<b>†</b>				
Thread Size M45									
Max. Stroke without Positive Stop 50 mm			╛╽						
EU Compliant									
Mounting Style: Foot									
Identification No. assigned by ACE									

### Please indicate identification no. in case of replacement order

### **Complete Details Required when Ordering**

Moving load	m	(kg)
Impact velocity range	V	(m/s) max.
Creep speed	vs	(m/s)
Motor power	Р	(kW)
Stall torque factor	ST	(normal 2.5)
Number of absorbers in parallel	n	

or technical data according to formulae and calculations on page 15 to 17.

The calculation and selection of the correct ACE safety shock absorber for your application should be referred to ACE for approval and assignment of unique identification number.

Dimensions	Dimensions and Capacity Chart												
							Max. Energ	y Capacity					
							Self-Compensating	Optimised Version					
Туре	Stroke <b>mm</b>	A max	В	C min	C max	D	W <sub>3</sub> Nm/Cycle	W <sub>3</sub> Nm/Cycle	Min. Return Force <b>N</b>	Max. Return Force <b>N</b>	Max. Side Load Angle	Weight <b>kg</b>	
SCS64-50EU	48.5	225	140	50	112	100	3 400	6 000	90	155	3	3.18	
SCS64-100EU	99.5	326	191	64	162	152	6 800	12 000	105	270	2	4.2	
SCS64-150EU	150	450	241	80	212	226	10 200	18 000	75	365	1	5.65	

For other stroke lengths, special options (such as higher or lower impact velocity etc.), please consult ACE.

Issue 6.2011 Specifications subject to change