SC² Heavyweight Series SC 300 to SC 650 Soft Contact and Self-Compensating



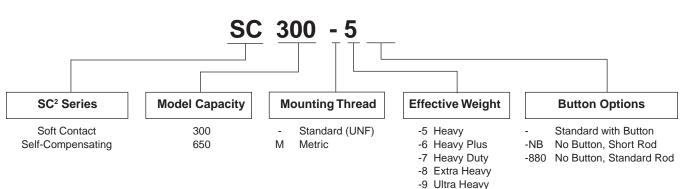
SC² 300 and SC² 650 Heavyweight Series Shock Absorbers deliver up to 950% of the effective weight capacity and 280% of the energy absorption capability of standard models. These durable units are ideal for decelerating heavy weights moving at low velocities. The Heavyweight Series design combines the piston and the inner tube into a single component, the piston tube. It acts as both the pressure creating and pressure controlling device.

SC² 300 and SC² 650 Heavyweight II Series Shock Absorbers offer effective weight ranges and dramatic increases in energy absorption capability, for handling a wider range of applications.

These revolutionary shock absorbers provide dual performance benefits. They offer **soft contact** deceleration where initial impact reaction forces are very low with the advantages of **self-compensation** to cope with changing input energy conditions without adjustment.

Applications include: rotary actuators, rodless cylinders, conveyors, pick and place operations, slides as well as operations turning heavy weights at slow speeds.

Ordering Information

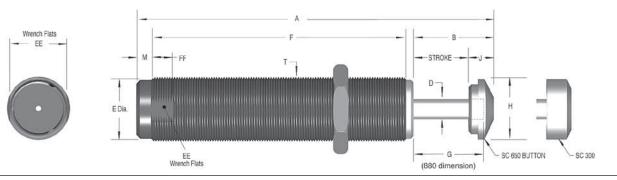




Parker Hannifin Corporation Pneumatic Division Wadsworth, Ohio www.parker.com/pneumatics

800.696.6165

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Heavyweight Series Dimensions In Inches (Millimeters)													
Model	Stroke	Α	В	D	E	F	G	н	J	М	Т	EE	FF
SC 300-5 SC 300-6 SC 300-7 SC 300-8 SC 300-9 SC 300M-5 SC 300M-6 SC 300M-7 SC 300M-8 SC 300M-9	.59 (15.0)	4.15 (105.4)	1.02 (25.9)	.25 (6.4)	.66 (16.8)	2.78 (70.6)	.84 (21.3)	.67 (17.0)	.43 (11.0)	.28 (7.1)	3/4-16 UNF M20x1.5	11/16 (17.5)	.50 (12.7)
SC 650-5 SC 650-6 SC 650-7 SC 650-8 SC 650-9 SC 650M-5 SC 650M-6 SC 650M-7 SC 650M-8 SC 650M-9	.91 (23.1)	5.51 (140.0)	1.33 (33.8)	.38 (9.6)	.87 (22.1)	3.83 (97.3)	1.16 (29.5)	.88 (22.4)	.43 (11.0)	.28 (7.1)	1-12 UNF M25x1.5	7/8 (22.2)	.50 (12.7)

Specifications									
Model	Soft Contact We Effective Weight Ibs (kg)	Self-Compensating We Effective Weight Ibs (kg)	E3 Energy per Cycle in Ibs (Nm)	E4 Energy per Hour in Ibs/hour (Nm/hour)	Return Force Ibs (N)	Return Time sec	Shipping Weight Ibs (kg)		
SC 300-5 SC 300-6 SC 300-7	38 - 90 (17 - 41) 115 - 270 (52 - 123) 300 - 360 (136 - 163)	25 - 100 (11 - 45) 75 - 300 (34 - 136) 200 - 400 (91 - 181)	650 (73)	400,000 (45,194)	1.70 - 4.00 (7.56 - 17.79)	0.20	0.33 (0.15)		
SC 300-8 SC 300-9	450 - 1,350 (204 - 612) 1,050 - 3,900 (476 - 1,769)	300 - 1,500 (136 - 680) 700 - 4,300 (318 - 1,950)	620 (70)	400,000 (45,194)	1.70 - 4.00 (7.56 - 17.79)	0.20	0.33 (0.15)		
SC 650-5 SC 650-6 SC 650-7	75 - 225 (34 - 102) 300 - 720 (136 - 327) 1,050 - 2,150 (476 - 975)	50 - 250 (23 - 113) 200 - 800 (91 -363) 700 - 2,400 (317 - 1,089)	1,860 (210)	600,000 (67,791)	2.40 - 7.30 (10.68 - 32.99)	0.30	0.76 (0.34)		
SC 650-8 SC 650-9	2,500 - 5,200 (1,134 - 2,359) 6,000 - 12,500 (2,722 - 5,670)	1,700 - 5,800 (771 - 2,631) 4,000 - 14,000 (1,814 - 6,350)	1,860 (210)	600,000 (67,791)	2.40 - 7.30 (10.68 - 32.47)	0.30	0.76 (0.34)		

Technical Data

Impact velocity range: .30 to 12.0 ft/sec (0.09 to 3.66 m/sec) Operating temperature: 32° to 150°F (0° to 66°C) Mechanical stop: Integral mechanical stop built into front of units.

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Oil type: #5

Materials: Steel body with black oxide finish. Hardened stainless steel piston rod.

Technical data applies to standard and metric threaded models. Maximum side load depends on application. For additional information contact The Actuator Division. Lock nut included with each shock absorber.



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