NEW!

The Self-Adjusting Cushioneer

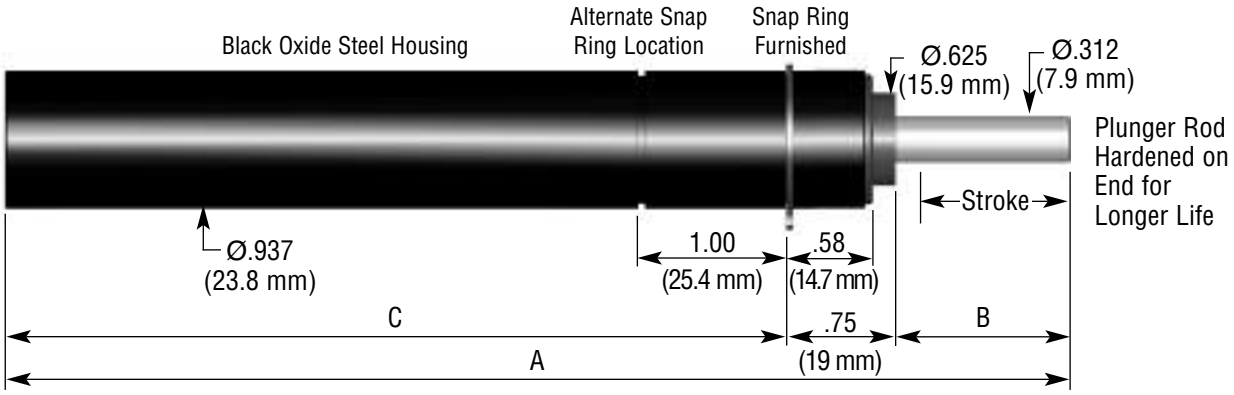

Table 2

Choose Your Self-Adjusting Cushioneer From This Table

Model Number	6000-31-½	6000-31-1	6000-31-2
Stroke Length	.5 in (12.7 mm)	1 in (25.4 mm)	2 in (50.8 mm)
Plunger Return Force	3.75 lbs (16.7 N)	3.75 lbs (16.7 N)	4.00 lbs (17.8 N)
Plunger Return Time*	0.015 sec	0.036 sec	0.106 sec
Single Impact Capacity	4 to 400 in-lbs (0.4 to 45.2 Nm)	8 to 800 in-lbs (0.9 to 90.4 Nm)	15 to 1,500 in-lbs (1.7 to 169.4 Nm)
Sustained Capacity**	10,000 in-lbs/min (1,130 Nm/min)	10,000 in-lbs/min (1,130 Nm/min)	14,000 in-lbs/min (1,580 Nm/min)
Weight	8.7 oz (247 g)	10.4 oz (295 g)	14.0 oz (397 g)
Dimension A	5.72 in (145.3 mm)	7.22 in (183.4 mm)	10.25 in (260.3 mm)
Dimension B	0.69 in (17.5mm)	1.19 in (30.2 mm)	2.19 in (55.6 mm)
Dimension C	4.28 in (108.7 mm)	5.28 in (134.1 mm)	7.31 in (185.7 mm)

Minimum force to operate plunger full stroke: 5 lbs. (22.2 N)	**Minimum operating temperature:** 40°F (4.4°C)
Maximum velocity of load striking plunger: 144 in/sec (365 cm/sec)	**Maximum operating temperature:** 130°F (54°C)

* Cushioneer completes its deceleration action 1/32" (0.8 mm) before the plunger reaches the bottom of the stroke. Return times shown apply only if plunger is not permitted to bottom. ** Values shown for sustained capacity are for operating temperatures below 130°F (54°C).

SELF-ADJUSTING CUSHIONEER The cylinder in the 6000 series self-adjusting Cushioneer features a pattern of grooves in the high pressure cylinder I.D. which guides the fluid past the advancing piston. The grooves are distributed over the length of the stroke in such a way that the available bypass area is reduced the further the piston advances. Therefore, the resistance increases as the plunger rod is depressed. The groove pattern is designed to maintain a constant flow rate even under large changes in impact energy and the resulting changes in fluid pressure. The result is a shock absorber that automatically adjusts to a wide range of impact loads and provides a smooth stopping action for any load within its capacity. **Note: The self-adjusting feature mandates the use of the full stroke of the Cushioneer but is not designed to be an end stop. Therefore, it is important not to bottom out the plunger.**

6000-31-½ **6000-31-1** **6000-31-2**