

Airpot® Dashpot Comparison Table

Model	Airpot 2KS56	Airpot 2KS95	Airpot 2KS160	Airpot 2KS240	Airpot 2KS325	Airpot 2KS444
Piston diameter	0.22 inch 5.59 mm	0.366 inch 9.3 mm	0.627 inch 15.93 mm	0.945 inch 24 mm	1.281 inch 32.5 mm	1.75 inch 44.4 mm
Stroke in inch (standard)	0.5, 1.0, 1.5, 2.0	0.5, 1.0, 1.5, 2.0	0.5, 1.0, 1.5, 2.0, 3.0	0.5, 1.0, 2.0, 3.0	0.5, 1.0, 2.0, 3.0	0.5, 1.0, 2.0, 3.0
Stroke in mm (standard)	12.7, 25.4, 38.1, 50.8	12.7, 25.4, 38.1, 50.8	12.7, 25.4, 38.1, 50.8, 76.2	12.7, 25.4, 50.8, 76.2	12.7, 25.4, 50.8, 76.2	12.7, 25.4, 50.8, 76.2
Stroke for snubber models	--	--	1.1 Inch 27.94 mm	1.3 inch 33.02 mm	2.3 inch 58.42 mm	2.3 inch 58.42 mm
Max. pull damping direction	0.5 lbs 2.224 N	1.4 lbs 6.228 N	4 lbs 17.793 N	9 lbs 40.034 N	17 lbs 75.620 N	30 lbs 133.447 N
Max. push damping direction	0.35 lbs 1.557 N	1 lbs 4.448 N	3 lbs 13.347 N	9 lbs 40.034 N	13 lbs 57.827 N	24 lbs 106.757 N
Energy capacity for a stroke of 1 Inch / 3 Inch:						
Pull (lbs):	0.22/0.75	0.64/2.2	1.8/6.1	4.1/14	7.5/26	14/48
Push (lbs):	0.27/1.5	0.80/4.2	2.2/12	5.2/27	9.5/50	18/93
Damping coefficient lbs/(in/sec)	0 - 0.5	0 - 2	0 - 5	0 - 30	0 - 40	0 - 40
Friction coefficient	0.2	0.2	0.2	0.2	0.2	0.2
Piston friction in g (without side load)	<1	<1	<1	<1	<4	<8
Temperature range	- 55 to + 150 °C	- 55 to + 150 °C	- 55 to + 150 °C	- 55 to + 150 °C	- 55 to + 150 °C	- 55 to + 150 °C
Component weight of the fixed mass in g: (cylinder, bottom, etc.)	1.2xstroke+6.4	2.9xstroke+8.9	6.1xstroke+13.6	11.5xstroke+40.6	17.5xstroke+60.3	25.7xstroke+82.1
Component weight of the movable mass in g (piston and rod)	0.2xstroke+1.4	0.4xstroke+2.8	0.4xstroke+4.3	1.3xstroke+8.3	6.3xstroke+13.6	6.3xstroke+31.6