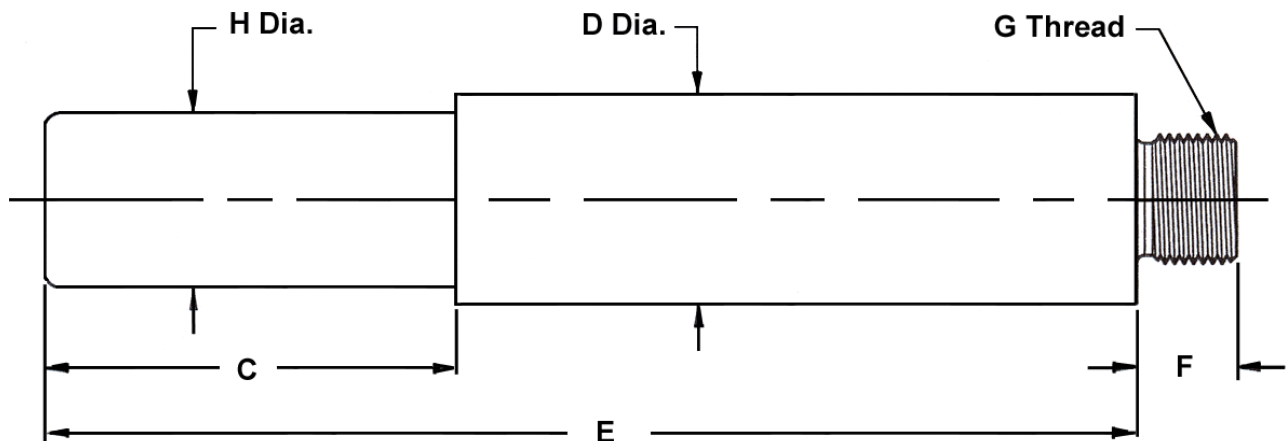


SELF-ADJUSTING W-SERIES FLUIDICSHOKS®

Specifications: **W-Series Self-Adjusting Industrial
W-I-D-E Range Fluidicshoks®**
Exclusively from Taylor Devices, Inc.



A	B	C	D	E	F	G	H
Model	Mounting Strength Required (lbs.)	Stroke (in.)	Inches	Inches	Inches	Inches	Inches
1 x 1 W	2,500	1	1.00	5.00	.50	1/2-20	.81
1 x 2 W	2,500	2	1.00	8.00	.50	1/2-20	.81
1-1/4 x 2 W	5,000	2	1.38	8.25	.75	3/4-16	1.09
1-1/2 x 3 W	8,000	3	1.62	11.75	1.00	1-14	1.35

Application / Design Features:

1. Typical uses include machinery, automated equipment, conveyors, and aerospace.
2. No maintenance, refilling, or adjusting required. The Fluidicshok® will automatically adjust its force and stroke to absorb any impact within its capacity diagram, even if weights and speeds change with each impact.
3. Solid stainless steel piston rod, hard chrome plated cylinder, and black oxide steel mounting standard on all models. All cylinders are one piece, machined from aircraft quality alloy steel.
4. Optional mountings are available, including back flange, front flange, threaded body, or full custom designs.
5. Designed for high speed automated equipment, the W-Series Fluidicshok® can usually be operated at up to 20 C.P.M. without external reservoirs or heat exchangers. For applications outside this range, consult factory.
6. Normal operating temperature range is -20 degrees F to + 140 degrees F continuous duty.

Notes:

1. This Shock Absorber will adjust its force and stroke to absorb any impact within this diagram's limits.
2. If drive energy is present, calculate maximum energy input and solve for an effective impact weight using the formula below. This weight should be added to the impacting weight before using this diagram.

$$W_e = \frac{772E}{V^2}$$

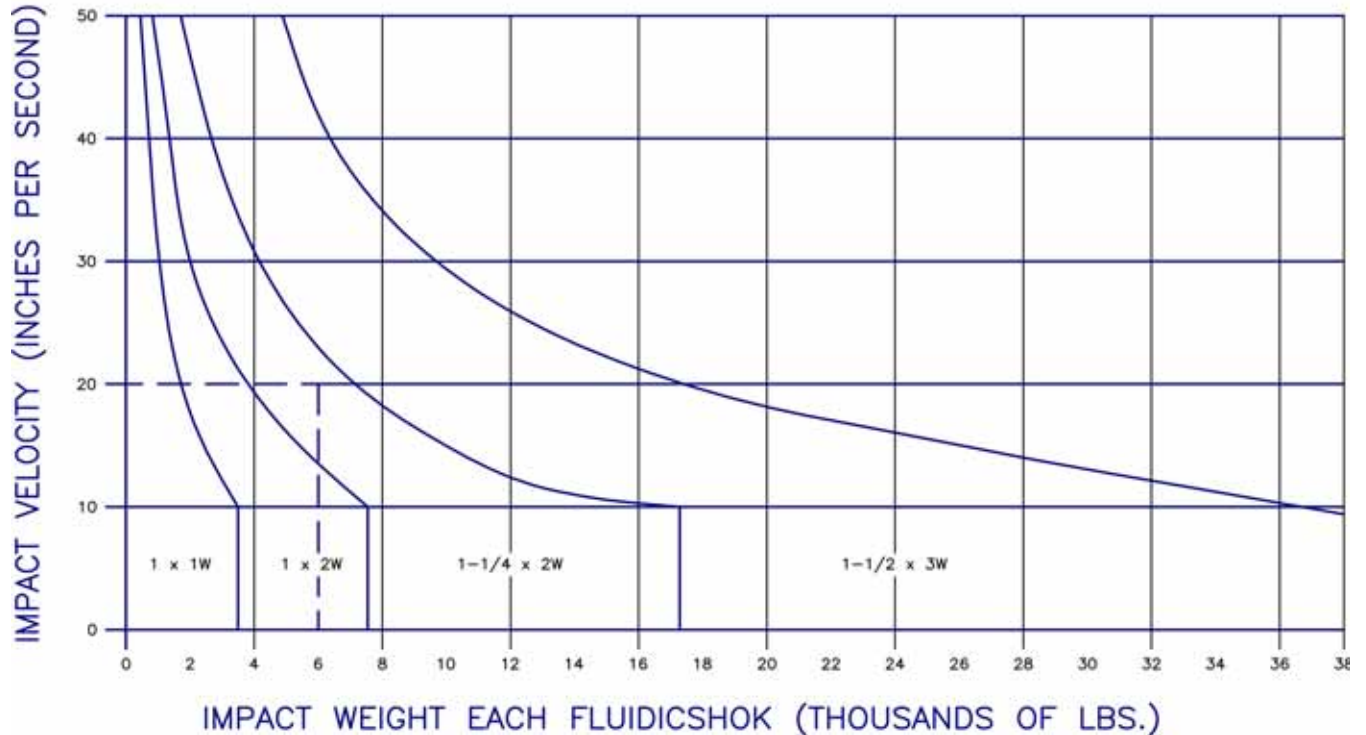
W_e = Effective Weight, lbs.

E = Energy Input, in-lbs.

V = Impact Velocity, in/sec.

3. W-Series Fluidicshoks® are designed for a maximum cyclic rate, at maximum capacity, of 20 C.P.M. For applications outside this range, consult our factory.
4. If your impact weight is off the graph, spread the weight over several Fluidicshoks®. If your impact velocity is off the graph, a custom orificed Taylor Shock Absorber must be used.

Example: 6,000 lbs. at 20 in/sec. = Model 1-1/4 x 2 W as shown by the black line below.



W-Series – The Self-Adjusting Industrial Shock Absorber for medium Energy Applications