



AVAILABLE ON **TRAC-TROL®**  
MODELS 10, 15, 20, 20P, 25, 25P, 32, 40 & 50

The internal cushions, standard on all GREENCO cylinders, are an effective method to decelerate loads, and minimize harmful shock loading at the end of each stroke.

In very high speed applications, cushions may be overloaded and shock absorbers are necessary.

The GREENCO External Shock Absorber Package is a highly effective way to minimize shock loading in a wide variety of applications (refer to chart). Additionally, the package utilizes (2) two fully adjustable, mechanical stops to vary stroke length as may be required by the application.

**SHOCK PACKAGE CONSISTS OF:** 2-shock absorbers, 2-shock mounting blocks, 2-stop collars, 2-locknuts and 2-adjustable stops.

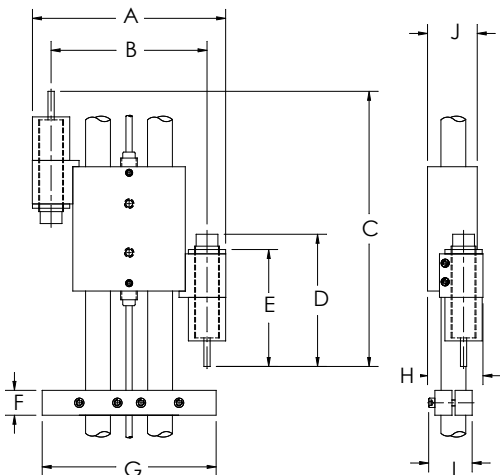
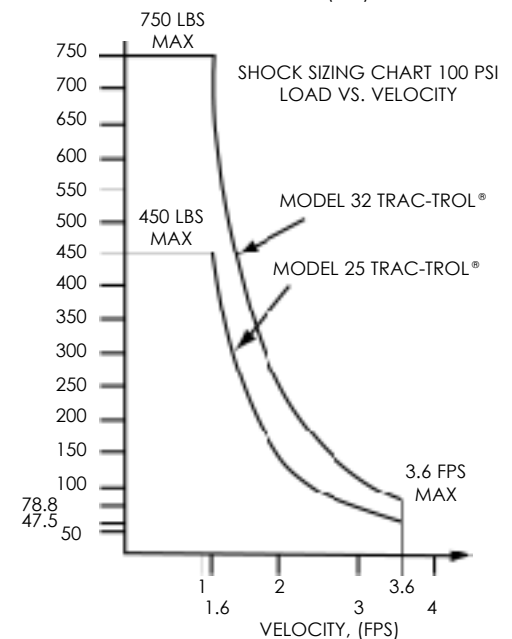
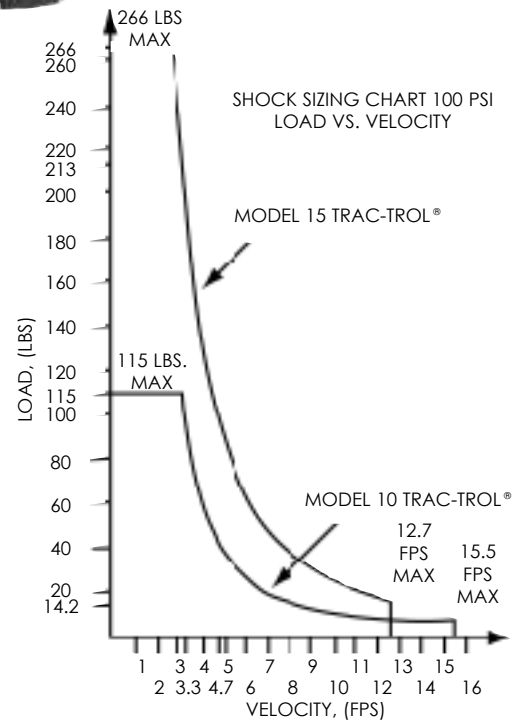
**IMPORTANT - some applications may exceed shock design limits** and could require a special orifice or non-standard shock absorber. Consult Factory.

**EXAMPLE** - application requiring a TRAC-TROL® model 15 with 100 PSI, and a payload weight of 80 lbs. Referring to the sizing chart you would find 80 lbs. on the vertical axis and move across until you intersect with model 15 line curve, from this intersection move toward the horizontal axis of the chart which tells you the maximum velocity allowed at impact (5.3 fps).

Shock operating temperature 32° -150° F. At maximum loads cycle rates must be limited to 30 hits per minute on model 10 and 17 hits per minute on models 15, 20, 25, 32, 40 and 50. Cycle rates increase with lower loads.

**NOTE - Shock Package Adds to Cylinder O.A.L.**

MODEL	INCREASE IN O.A.L.
T10	.5.00"
T15, TS15	.5.375"
T20, T25, TS20, TS25	.5.125"
T20P, T25P, T32, T40, TS40, TS20P, TS25P, TS32	.6.06"
T50	.6.75"



Dimensions in inches

**DIMENSION TABLE FOR SHOCKS, 10, 15, 20, 20P, 25, 25P, 32, 40, 50**

	A	B	C	D	E	F	G	H	I	J
T10	4.75	3.63	7.31	3.81	3.50	1.00	4.38	1.53	1.16	1.13
T15, TS15	6.75	5.25	9.50	5.09	4.50	1.00	6.00	1.81	1.31	1.50
T20, T25, TS20, TS25	7.75	6.25	11.00	5.09	4.50	1.00	7.00	1.23	1.81	2.00
T20P, T25P, T32, TS20P, TS25P, TS32, TS40	9.00	7.50	12.00	5.09	4.50	1.00	8.25	2.50	2.31	2.50
T50, TS50	13.25	11.75	13.75	5.09	4.50	1.00	12.25	3.00	2.38	3.00