MOTION DYNAMICS CORP. SPRING DESIGN REPORT (for reference only)

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KEVAN PROTOTYPE OPEN SOURCE INSTR.

Compression Cylind CE	NG	Stainless	316	Round	
Wire Dia (in) 0.00200	Mean Dia	a (in) (0.008000	Active Coils Total Coils Inactive Coi	1500.500
	5 0 Max O.D	Dia (in)	0.0101	Pitch (in) 1/Pitch (per Pitch Ang (c	0.004000 (in) 250.0000 (leg) 9.0431 (in) 37.7117
	Free	Point 1	Poi	nt 2 Sc	olid
Load (lbs) Length (in) Deflection (in) Defl, % of Max Defl UNK Stress (psi) UNK Stress % of MTS CORR Stress % of MTS	6.0000	- 0.0263 5.000 1.0000 33.4 66383 27.2 93183 38.2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.7500 3. .2500 2. 41.7 82976 19 34.0 16478 27	0781 0030 9970 08944 81.5 79267

NORMAL MANUFACTURING TOLERANCES: (All other dimensions ref. only) Coil Diameter: Consult your springmaker.

NOTES:

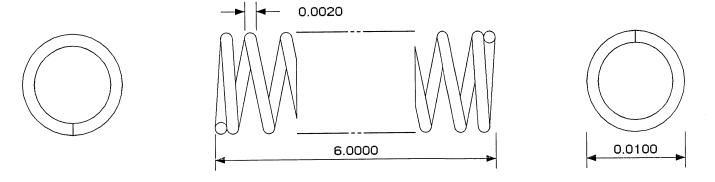
Minimum Allowable Working Height (before set) is 5.08 (in)

Spring may take a set at solid.

Wire dia outside range of MTS eqn

May take a set at operating load.

CENG designs are not evaluated for buckling instability by SD 2.x



Dimensions in inches Illustration Only - Not for manufacture - Not to scale

Analysis performed with the SMI SPRING DESIGNER, Ver. 2.1 on 01/07/14