Guide to using tables

Maximum Rod Diameter
over which the spring will effectively operate, allowing for working conditions and manufacturing tolerances.

Wire Diameter
in ascending order of size, within each group of outside diameters.

Pressure
the maximum pressure occurring at 80% of maximum available deflection.

Load at Solid Height
the load or force required to bring all the coils into contact.

Lee Stock Number
ordering reference.

Price Group
reference to the price list

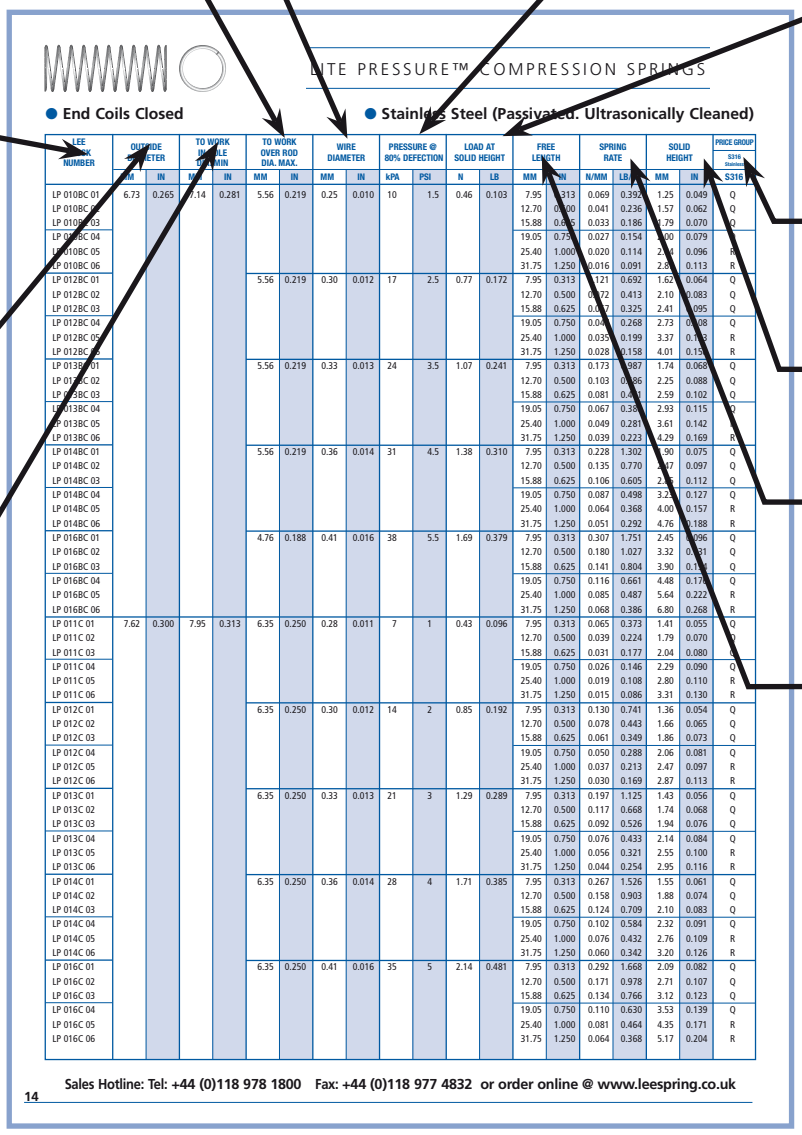
Solid Height
Length when fully compressed.

Outside Diameter
arranged through the pages in ascending order of size.

Spring Rate
change in load or force per unit of deflection.

Minimum Hole Diameter
required for the effective operation of the spring, allowing for manufacturing tolerances and normal working conditions.

Free Length
the overall length of the spring in the unloaded position.



LITE PRESSURE™ COMPRESSION SPRINGS

● End Coils Closed ● Stainless Steel (Passivated. Ultrasonically Cleaned)

LEE STOCK NUMBER	OUTSIDE DIAMETER MM	OUTSIDE DIAMETER IN	TO WORK OVER HOLE DIA. MIN MM	TO WORK OVER HOLE DIA. MIN IN	TO WORK OVER ROD DIA. MAX. MM	TO WORK OVER ROD DIA. MAX. IN	WIRE DIAMETER MM	WIRE DIAMETER IN	PRESSURE @ 80% DEFECTION kPA	PRESSURE @ 80% DEFECTION PSI	LOAD AT SOLID HEIGHT N	LOAD AT SOLID HEIGHT LB	FREE LENGTH MM	FREE LENGTH IN	SPRING RATE N/MM	SPRING RATE LB/IN	SOLID HEIGHT MM	SOLID HEIGHT IN	PRICE GROUP S316 Stainless
LP 010BC 01	6.73	0.265	7.14	0.281	5.56	0.219	0.25	0.010	10	1.5	0.46	0.103	7.95	0.313	0.069	0.392	1.25	0.049	Q
LP 010BC 02													12.70	0.500	0.041	0.236	1.57	0.062	Q
LP 010BC 03													15.88	0.625	0.033	0.186	1.79	0.070	Q
LP 010BC 04													19.05	0.750	0.027	0.154	2.00	0.079	Q
LP 010BC 05													25.40	1.000	0.020	0.114	2.44	0.096	R
LP 010BC 06													31.75	1.250	0.016	0.091	2.87	0.113	R
LP 012BC 01					5.56	0.219	0.30	0.012	17	2.5	0.77	0.172	7.95	0.313	0.121	0.692	1.62	0.064	Q
LP 012BC 02													12.70	0.500	0.072	0.413	2.10	0.083	Q
LP 012BC 03													15.88	0.625	0.057	0.325	2.41	0.095	Q
LP 012BC 04													19.05	0.750	0.047	0.268	2.73	0.108	Q
LP 012BC 05													25.40	1.000	0.035	0.199	3.37	0.133	R
LP 012BC 06													31.75	1.250	0.028	0.158	4.01	0.158	R
LP 013BC 01					5.56	0.219	0.33	0.013	24	3.5	1.07	0.241	7.95	0.313	0.173	0.987	1.74	0.068	Q
LP 013BC 02													12.70	0.500	0.103	0.586	2.25	0.088	Q
LP 013BC 03													15.88	0.625	0.081	0.461	2.59	0.102	Q
LP 013BC 04													19.05	0.750	0.067	0.381	2.93	0.115	Q
LP 013BC 05													25.40	1.000	0.049	0.281	3.61	0.142	R
LP 013BC 06													31.75	1.250	0.039	0.223	4.29	0.169	R
LP 014BC 01					5.56	0.219	0.36	0.014	31	4.5	1.38	0.310	7.95	0.313	0.228	1.302	1.90	0.075	Q
LP 014BC 02													12.70	0.500	0.135	0.770	2.47	0.097	Q
LP 014BC 03													15.88	0.625	0.106	0.605	2.85	0.112	Q
LP 014BC 04													19.05	0.750	0.087	0.498	3.23	0.127	Q
LP 014BC 05													25.40	1.000	0.064	0.368	4.00	0.157	R
LP 014BC 06													31.75	1.250	0.051	0.292	4.76	0.188	R
LP 016BC 01					4.76	0.188	0.41	0.016	38	5.5	1.69	0.379	7.95	0.313	0.307	1.751	2.45	0.096	Q
LP 016BC 02													12.70	0.500	0.180	1.027	3.32	0.131	Q
LP 016BC 03													15.88	0.625	0.141	0.804	3.90	0.154	Q
LP 016BC 04													19.05	0.750	0.116	0.661	4.48	0.176	Q
LP 016BC 05													25.40	1.000	0.085	0.487	5.64	0.222	R
LP 016BC 06													31.75	1.250	0.068	0.386	6.80	0.268	R
LP 011C 01	7.62	0.300	7.95	0.313	6.35	0.250	0.28	0.011	7	1	0.43	0.096	7.95	0.313	0.065	0.373	1.41	0.055	Q
LP 011C 02													12.70	0.500	0.039	0.224	1.79	0.070	Q
LP 011C 03													15.88	0.625	0.031	0.177	2.04	0.080	Q
LP 011C 04													19.05	0.750	0.026	0.146	2.29	0.090	Q
LP 011C 05													25.40	1.000	0.019	0.108	2.80	0.110	R
LP 011C 06													31.75	1.250	0.015	0.086	3.31	0.130	R
LP 012C 01					6.35	0.250	0.30	0.012	14	2	0.85	0.192	7.95	0.313	0.130	0.741	1.36	0.054	Q
LP 012C 02													12.70	0.500	0.078	0.443	1.66	0.065	Q
LP 012C 03													15.88	0.625	0.061	0.349	1.86	0.073	Q
LP 012C 04													19.05	0.750	0.050	0.288	2.06	0.081	Q
LP 012C 05													25.40	1.000	0.037	0.213	2.47	0.097	R
LP 012C 06													31.75	1.250	0.030	0.169	2.87	0.113	R
LP 013C 01					6.35	0.250	0.33	0.013	21	3	1.29	0.289	7.95	0.313	0.197	1.125	1.43	0.056	Q
LP 013C 02													12.70	0.500	0.117	0.668	1.74	0.068	Q
LP 013C 03													15.88	0.625	0.092	0.526	1.94	0.076	Q
LP 013C 04													19.05	0.750	0.076	0.433	2.14	0.084	Q
LP 013C 05													25.40	1.000	0.056	0.321	2.55	0.100	R
LP 013C 06													31.75	1.250	0.044	0.254	2.95	0.116	R
LP 014C 01					6.35	0.250	0.36	0.014	28	4	1.71	0.385	7.95	0.313	0.267	1.526	1.55	0.061	Q
LP 014C 02													12.70	0.500	0.158	0.903	1.88	0.074	Q
LP 014C 03													15.88	0.625	0.124	0.709	2.10	0.083	Q
LP 014C 04													19.05	0.750	0.102	0.584	2.32	0.091	Q
LP 014C 05													25.40	1.000	0.076	0.432	2.76	0.109	R
LP 014C 06													31.75	1.250	0.060	0.342	3.20	0.126	R
LP 016C 01					6.35	0.250	0.41	0.016	35	5	2.14	0.481	7.95	0.313	0.292	1.668	2.09	0.082	Q
LP 016C 02													12.70	0.500	0.171	0.978	2.71	0.107	Q
LP 016C 03													15.88	0.625	0.134	0.766	3.12	0.123	Q
LP 016C 04													19.05	0.750	0.110	0.630	3.53	0.139	Q
LP 016C 05													25.40	1.000	0.081	0.464	4.35	0.171	R
LP 016C 06													31.75	1.250	0.064	0.368	5.17	0.204	R

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14

ADDITIONAL INFORMATION

1. Load at Solid Height, Solid Height and Number of Coils are all given as approximate figures because during the manufacturing process all material and engineering tolerances may result in the number of coils being adjusted, to maintain the correct spring rate.

2. To find the load at any working length, when free length and spring rate are given, use the formula $F = S \times \Delta L$ (where F is the load; S is the spring rate; ΔL is the deflection from free length).
The surface area over the nominal hole diameter would be π times the diameter squared divided by 4.
The resultant pressure would then be determined by dividing the calculated load by the surface area.

3. It is general practice to avoid compressing springs to their solid height in order to achieve longer life.
Therefore we recommend that compression springs should not be compressed greater than 80% of their deflective capability - except on an occasional basis.

4. Material specifications, finishes and tolerances are detailed on page 163.