



## NEW! High Pressure Compression Springs

### Very high spring rates without the bulk.

In the past, our Stock Spring customers found high spring rates only in the largest of compression spring sizes. Lee Spring has listened to you again: If you need high spring rates, why automatically limit yourself to wide, bulky springs? Lee Spring agrees. The engineering team that brought you BANTAM™ Mini and Lite Pressure™ Compression Springs is back with yet another application driven product line. This time we go “skinny” and strong without the sacrifice of pressure!

Lee Spring’s newest solution is our unique line of slender, low index, High Pressure Compression Springs, carefully designed to work in small holes from 1/8” to 1”, packed with high load capacities and rated to pressures of 300, 400, and 500 psi for easy reference.

This line is ideal for anyone in need of firm yet not rigid springs designed with slender profiles, suitable for small spaces and common applications such as:

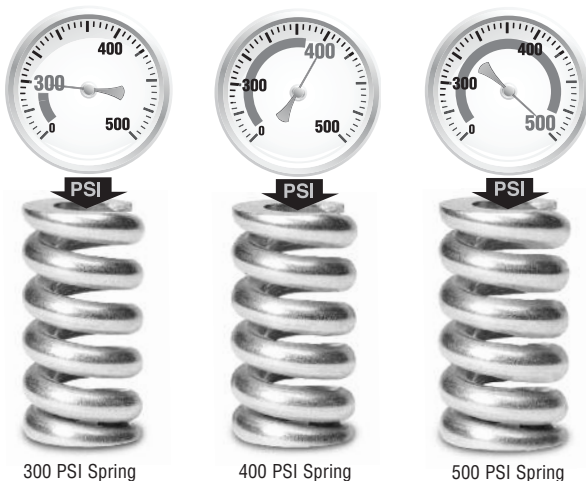
- Ball plungers
- Quick change tools
- Switches
- Safety relief valves
- Vise clamps
- ... and many more!



**Same Pressure in a Narrow Profile**

High Pressure Compression Springs in 17-7PH Stainless Steel provide a nice balance of corrosion resistance, high strength, and toughness. And for even better performance, Lee Spring’s High Pressure Springs (prefix LHP) are delivered with value-added enhancements already included:

- Precipitation hardening heat treat
- Preset to solid height
- Shot-peened
- Passivation finish



300 PSI Spring

400 PSI Spring

500 PSI Spring

 **Lee Spring®**  
leespring.com

*Not just a better spring,  
a better spring company.*

# COMPRESSION SPRINGS: HIGH PRESSURE SERIES (INCH)

ENDS ARE GROUND • Type 17-7 PH Stainless Steel (Shotpeened, Passivated)

COMPRESSION SPRINGS

## BACKGROUND

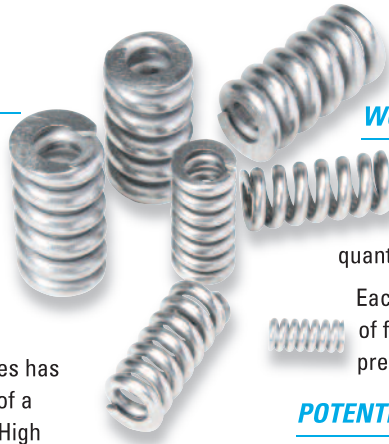
The Lee Spring catalog has always offered springs with relatively high spring rates or workable (maximum) loads. But often, the offered outside diameters were too wide to fit within the intended application assembly requirements, or the lengths too long and bulky.

The success of our "Lite Pressure™" Series has naturally led to Lee Spring's development of a "High Pressure" Series (LHP). This new "High Pressure" Series is offered so that, for a given length and outside diameter, there would exist a series of springs that had higher spring rates or workable load ratings than what is currently offered by the existing Lee Spring Standard Series compression springs.

## WHY "PRESSURE"?

Pressure is described as a force which is exerted over a surface area. In regards to compression springs, the pressure exerted as the result of a specific deflection can be more technically described as **force over a flat surface** with a circular perimeter (the Nominal Hole in which the spring is being used).

The term "High Pressure" is used to describe this series of springs designed to be used where relatively high forces are required for a given diameter.



## HOW PRESSURE RATING FOR LHP SERIES WOULD BE USED

The pressure rating assigned to each item of the High Pressure Series is a selection parameter to assist in meeting qualitative requirements or quantitative requirements.

Each series of outside diameter is offered in a range of free lengths with options to 300, 400, and 500 psi pressure ratings.

## POTENTIAL APPLICATIONS

LHP series springs are ideal for high working loads in short deflections, for example safety relief valves and check valves in fluid power applications.

Other applications could include ball plungers, electrical contacts and switches, vise clamps, quick change tools, toys, and production line fittings or accessories.

## MATERIAL & ENHANCEMENTS

LHP series springs are offered **only** in Type 17-7 PH Stainless Steel (precipitation hardened) so as to provide a design having general corrosion resistance and toughness to handle high loads.

This new "High Pressure" Series comes with preset and shot peen processed for enhanced performance in high stress applications.

## SPECIFICATIONS

### RELATIONSHIP TO FLUID PRESSURE

The pressure ratings used for High Pressure Series springs have no **direct** relationship with "pressure" as traditionally used in the fluid power industry, although indirectly the pressure ratings are conceptually equivalent.

Fluid pressure would be the result of a spring force acting over the specific area exposed to the fluid and would depend on other application components such as the valve face or the piston head.

### PRESSURE CALCULATION EXAMPLE

Catalog spring **LHP 072E 04S** has the following characteristics:

- Nominal Hole:** 0.375 inch
- Free Length:** 1.000 inch
- Solid Height:** 0.673 inch
- Spring Rate:** 210.75 lbs/inch

- The maximum recommended pressure for this spring will occur when the spring is at **80% of maximum available deflection** (it is not generally recommended to use a compression spring all the way down to solid height).

- The **maximum available deflection** is the difference between the Free Length (1.000) and the Solid Height (0.673) or  $1.000 - 0.673 = 0.327$  inch.
- 80% of that would be  $0.327 \times 80\% = 0.262$  inch.
- The calculated load at this deflection would be the deflection (0.262) times the Spring Rate (210.75) or  $0.262 \text{ inch} \times 210.75 \text{ lbs/inch} = 55.217 \text{ lbs}$ .
- The surface area over the Nominal Hole diameter (0.375) would be  $\pi (\pi)$  times the diameter squared divided by four or  $\pi (\pi) \times (0.375)^2 / 4 = 0.1104 \text{ in}^2$ .
- The resultant pressure would then be determined by dividing the calculated load by the surface area or  $55.217 \text{ lbs} / 0.1104 \text{ in}^2 = 500 \text{ lb/in}^2$  (psi).

### MATERIAL

- 17-7 PH Stainless Steel

### FINISH

- Passivated per ASTM A967

**Tolerances on Spring Rate:**  $\pm 10\%$

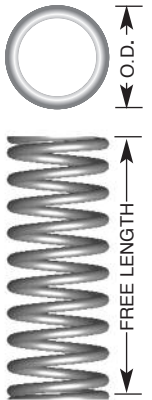
**Tolerances on Outside Diameter:** See Compression Diameters Table on page 3.

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LEE STOCK NUMBER	OUTSIDE DIAMETER		TO WORK IN HOLE DIAMETER		TO WORK OVER ROD DIAMETER		WIRE DIAMETER		PRESSURE @ 80% DEFLECTION		APPROX. LOAD AT SOLID HGT.		FREE LENGTH		SPRING RATE		SOLID HEIGHT		PRICE GROUP
	IN.	MM	IN.	MM	IN.	MM	IN.	MM	PSI	kPa	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	
LHP 020A 01S	0.120	3.05	0.125	3.18	0.063	1.59	0.020	0.51	300	2068	4.59	2.082	0.250	6.35	42.87	0.766	0.143	3.63	T
LHP 020A 02S													0.375	9.53	26.87	0.480	0.204	5.18	T
LHP 020A 03S	0.120	3.05	0.125	3.18	0.063	1.59	0.020	0.51	300	2068	4.59	2.082	0.500	12.70	19.57	0.349	0.265	6.73	T
LHP 020A 04S													0.750	19.05	12.68	0.226	0.388	9.86	T
LHP 020A 05S	0.120	3.05	0.125	3.18	0.063	1.59	0.020	0.51	300	2068	4.59	2.082	1.000	25.40	9.38	0.168	0.510	12.95	T
LHP 020A 06S													1.250	31.75	7.44	0.133	0.632	16.05	U
LHP 022A 01S	0.120	3.05	0.125	3.18	0.063	1.59	0.022	0.56	400	2758	6.12	2.776	0.250	6.35	66.33	1.185	0.158	4.01	T
LHP 022A 02S													0.375	9.53	41.28	0.737	0.227	5.77	T
LHP 022A 03S	0.120	3.05	0.125	3.18	0.063	1.59	0.022	0.56	400	2758	6.12	2.776	0.500	12.70	29.97	0.535	0.296	7.52	T
LHP 022A 04S													0.750	19.05	19.36	0.346	0.433	11.00	U
LHP 022A 05S	0.120	3.05	0.125	3.18	0.063	1.59	0.022	0.56	400	2758	6.12	2.776	1.000	25.40	14.29	0.255	0.571	14.50	U
LHP 022A 06S													1.250	31.75	11.33	0.202	0.709	18.01	W
LHP 023A 01S	0.120	3.05	0.125	3.18	0.063	1.59	0.023	0.58	500	3447	7.66	3.475	0.250	6.35	85.13	1.520	0.160	4.06	T
LHP 023A 02S													0.375	9.53	52.79	0.943	0.230	5.84	T
LHP 023A 03S	0.120	3.05	0.125	3.18	0.063	1.59	0.023	0.58	500	3447	7.66	3.475	0.500	12.70	38.25	0.683	0.300	7.62	T
LHP 023A 04S													0.750	19.05	24.67	0.441	0.440	11.18	U
LHP 023A 05S	0.120	3.05	0.125	3.18	0.063	1.59	0.023	0.58	500	3447	7.66	3.475	1.000	25.40	18.20	0.325	0.579	14.71	U
LHP 023A 06S													1.250	31.75	14.42	0.258	0.719	18.26	W
LHP 041C 01S	0.240	6.10	0.250	6.35	0.125	3.18	0.041	1.04	300	2068	18.38	8.337	0.313	7.95	167.20	2.986	0.203	5.16	U
LHP 041C 02S													0.375	9.53	131.82	2.354	0.236	5.99	U
LHP 041C 03S	0.240	6.10	0.250	6.35	0.125	3.18	0.041	1.04	300	2068	18.38	8.337	0.500	12.70	92.40	1.650	0.301	7.65	W
LHP 041C 04S													0.750	19.05	57.82	1.033	0.432	10.97	W
LHP 041C 05S	0.240	6.10	0.250	6.35	0.125	3.18	0.041	1.04	300	2068	18.38	8.337	1.000	25.40	42.07	0.751	0.563	14.30	W
LHP 041C 06S													1.250	31.75	33.07	0.591	0.694	17.63	W
LHP 045C 01S	0.240	6.10	0.250	6.35	0.125	3.18	0.045	1.14	400	2758	24.51	11.118	0.313	7.95	263.51	4.706	0.220	5.59	U
LHP 045C 02S													0.375	9.53	206.18	3.682	0.256	6.50	U
LHP 045C 03S	0.240	6.10	0.250	6.35	0.125	3.18	0.045	1.14	400	2758	24.51	11.118	0.500	12.70	143.32	2.559	0.329	8.36	W
LHP 045C 04S													0.750	19.05	89.03	1.590	0.475	12.07	W
LHP 045C 05S	0.240	6.10	0.250	6.35	0.125	3.18	0.045	1.14	400	2758	24.51	11.118	1.000	25.40	64.57	1.153	0.620	15.75	W
LHP 045C 06S													1.250	31.75	50.66	0.905	0.766	19.46	X
LHP 049C 01S	0.240	6.10	0.250	6.35	0.125	3.18	0.049	1.24	500	3447	30.59	13.876	0.313	7.95	401.96	7.178	0.237	6.02	Y
LHP 049C 02S													0.375	9.53	311.99	5.572	0.277	7.04	Y
LHP 049C 03S	0.240	6.10	0.250	6.35	0.125	3.18	0.049	1.24	500	3447	30.59	13.876	0.500	12.70	214.98	3.839	0.358	9.09	Y
LHP 049C 04S													0.750	19.05	132.55	2.367	0.519	13.18	Z
LHP 049C 05S	0.240	6.10	0.250	6.35	0.125	3.18	0.049	1.24	500	3447	30.59	13.876	1.000	25.40	95.81	1.711	0.680	17.27	Z
LHP 049C 06S													1.250	31.75	75.02	1.340	0.842	21.39	AA
LHP 063E 01S	0.360	9.15	0.375	9.53	0.188	4.78	0.063	1.59	300	2068	41.34	18.752	0.375	9.53	364.88	6.516	0.262	6.65	W
LHP 063E 02S													0.500	12.70	243.25	4.344	0.330	8.38	X
LHP 063E 03S	0.360	9.15	0.375	9.53	0.188	4.78	0.063	1.59	300	2068	41.34	18.752	0.750	19.05	145.95	2.606	0.467	11.86	Y
LHP 063E 04S													1.000	25.40	104.25	1.862	0.603	15.32	Y
LHP 063E 05S	0.360	9.15	0.375	9.53	0.188	4.78	0.063	1.59	300	2068	41.34	18.752	1.250	31.75	81.08	1.448	0.740	18.80	Z
LHP 063E 06S													1.500	38.10	66.34	1.185	0.876	22.25	Z

COMPRESSION SPRINGS



### SPECIAL INSTRUCTIONS FOR HIGH PRESSURE COMPRESSION SERIES

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	IN.	MM	IN.	MM	IN.	MM	IN.	MM	PSI	kPa	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	
LHP 068E 01S	0.360	9.15	0.375	9.53	0.188	4.78	0.068	1.73	400	2758	55.12	25.002	0.375	9.53	567.03	10.126	0.278	7.06	X
LHP 068E 02S													0.500	12.70	372.31	6.649	0.352	8.94	X
LHP 068E 03S	0.360	9.15	0.375	9.53	0.188	4.78	0.068	1.73	400	2758	55.12	25.002	0.750	19.05	220.72	3.942	0.500	12.70	Y
LHP 068E 04S													1.000	25.40	156.85	2.801	0.648	16.46	Z
LHP 068E 05S	0.360	9.15	0.375	9.53	0.188	4.78	0.068	1.73	400	2758	55.12	25.002	1.250	31.75	121.65	2.172	0.797	20.24	Z
LHP 068E 06S													1.500	38.10	99.35	1.774	0.945	24.00	AA
LHP 072E 01S	0.360	9.15	0.375	9.53	0.188	4.78	0.072	1.83	500	3447	68.87	31.239	0.375	9.53	780.97	13.947	0.287	7.29	Z
LHP 072E 02S													0.500	12.70	506.75	9.050	0.364	9.25	Z
LHP 072E 03S	0.360	9.15	0.375	9.53	0.188	4.78	0.072	1.83	500	3447	68.87	31.239	0.750	19.05	297.70	5.316	0.519	13.18	AA
LHP 072E 04S													1.000	25.40	210.75	3.764	0.673	17.09	AB
LHP 072E 05S	0.360	9.15	0.375	9.53	0.188	4.78	0.072	1.83	500	3447	68.87	31.239	1.250	31.75	163.11	2.913	0.827	21.01	AB
LHP 072E 06S													1.500	38.10	133.04	2.376	0.982	24.94	AC
LHP 085G 01S	0.480	12.19	0.500	12.70	0.250	6.35	0.085	2.16	300	2068	73.49	33.335	0.438	11.13	644.12	11.503	0.324	8.23	AD
LHP 085G 02S													0.500	12.70	523.10	9.342	0.360	9.14	AD
LHP 085G 03S	0.480	12.19	0.500	12.70	0.250	6.35	0.085	2.16	300	2068	73.49	33.335	0.750	19.05	297.63	5.315	0.503	12.78	AE
LHP 085G 04S													1.000	25.40	207.98	3.714	0.646	16.41	AG
LHP 085G 05S	0.480	12.19	0.500	12.70	0.250	6.35	0.085	2.16	300	2068	73.49	33.335	1.250	31.75	159.84	2.854	0.790	20.07	AG
LHP 085G 06S													1.500	38.10	129.79	2.318	0.933	23.70	AJ
LHP 091G 01S	0.480	12.19	0.500	12.70	0.250	6.35	0.092	2.32	400	2758	97.91	44.412	0.438	11.13	974.79	17.408	0.338	8.59	AD
LHP 091G 02S													0.500	12.70	784.13	14.003	0.375	9.53	AD
LHP 091G 03S	0.480	12.19	0.500	12.70	0.250	6.35	0.092	2.32	400	2758	97.91	44.412	0.750	19.05	438.40	7.829	0.527	13.39	AE
LHP 091G 04S													1.000	25.40	304.25	5.433	0.678	17.22	AG
LHP 091G 05S	0.480	12.19	0.500	12.70	0.250	6.35	0.092	2.32	400	2758	97.91	44.412	1.250	31.75	232.96	4.160	0.829	21.06	AG
LHP 091G 06S													1.500	38.10	188.74	3.371	0.980	24.89	AJ
LHP 098G 01S	0.480	12.19	0.500	12.70	0.250	6.35	0.098	2.49	500	3447	122.18	55.421	0.438	11.13	1428.46	25.509	0.353	8.97	AG
LHP 098G 02S													0.500	12.70	1137.13	20.307	0.393	9.98	AG
LHP 098G 03S	0.480	12.19	0.500	12.70	0.250	6.35	0.098	2.49	500	3447	122.18	55.421	0.750	19.05	623.98	11.143	0.554	14.07	AG
LHP 098G 04S													1.000	25.40	429.96	7.678	0.715	18.16	AJ
LHP 098G 05S	0.480	12.19	0.500	12.70	0.250	6.35	0.098	2.49	500	3447	122.18	55.421	1.250	31.75	327.98	5.857	0.876	22.25	AK
LHP 098G 06S													1.500	38.10	265.10	4.734	1.038	26.37	AL
LHP 105H 01S	0.600	15.24	0.625	15.88	0.312	7.92	0.105	2.67	300	2068	114.87	52.105	0.500	12.70	895.65	15.995	0.372	9.45	AJ
LHP 105H 02S													0.750	19.05	480.99	8.590	0.511	12.98	AL
LHP 105H 03S	0.600	15.24	0.625	15.88	0.312	7.92	0.105	2.67	300	2068	114.87	52.105	1.000	25.40	328.78	5.871	0.651	16.54	AL
LHP 105H 04S													1.250	31.75	249.75	4.460	0.790	20.07	AM
LHP 105H 05S	0.600	15.24	0.625	15.88	0.312	7.92	0.105	2.67	300	2068	114.87	52.105	1.500	38.10	201.35	3.596	0.929	23.60	AN
LHP 105H 06S													1.750	44.45	168.66	3.012	1.068	27.13	AO
LHP 115H 01S	0.600	15.24	0.625	15.88	0.312	7.92	0.115	2.92	400	2758	153.11	69.451	0.500	12.70	1465.99	26.180	0.396	10.06	AM
LHP 115H 02S													0.750	19.05	761.19	13.593	0.549	13.94	AN
LHP 115H 03S	0.600	15.24	0.625	15.88	0.312	7.92	0.115	2.92	400	2758	153.11	69.451	1.000	25.40	514.05	9.180	0.702	17.83	AO
LHP 115H 04S													1.250	31.75	388.06	6.930	0.855	21.72	AP
LHP 115H 05S	0.600	15.24	0.625	15.88	0.312	7.92	0.115	2.92	400	2758	153.11	69.451	1.500	38.10	311.67	5.566	1.008	25.60	AR
LHP 115H 06S													1.750	44.45	260.41	4.650	1.161	29.49	AS

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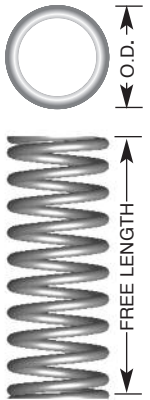
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	IN.	MM	IN.	MM	IN.	MM	IN.	MM	PSI	kPa	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	
LHP 125H 01S	0.600	15.24	0.625	15.88	0.312	7.92	0.125	3.18	500	3447	191.38	86.810	0.500	12.70	2333.14	41.665	0.418	10.62	AO
LHP 125H 02S													0.750	19.05	1166.57	20.833	0.586	14.88	AP
LHP 125H 03S	0.600	15.24	0.625	15.88	0.312	7.92	0.125	3.18	500	3447	191.38	86.810	1.000	25.40	777.71	13.888	0.754	19.15	AR
LHP 125H 04S													1.250	31.75	583.28	10.416	0.922	23.42	AS
LHP 125H 05S	0.600	15.24	0.625	15.88	0.312	7.92	0.125	3.18	500	3447	191.38	86.810	1.500	38.10	466.63	8.333	1.090	27.69	AT
LHP 125H 06S													1.750	44.45	388.86	6.944	1.257	31.93	AU
LHP 130J 01S	0.720	18.29	0.750	19.05	0.375	9.53	0.130	3.30	300	2068	165.10	74.889	0.625	15.88	1134.93	20.268	0.480	12.19	AO
LHP 130J 02S													0.750	19.05	845.41	15.097	0.555	14.10	AS
LHP 130J 03S	0.720	18.29	0.750	19.05	0.375	9.53	0.130	3.30	300	2068	165.10	74.889	1.000	25.40	559.80	9.997	0.705	17.91	AS
LHP 130J 04S													1.250	31.75	418.43	7.472	0.855	21.72	AS
LHP 130J 05S	0.720	18.29	0.750	19.05	0.375	9.53	0.130	3.30	300	2068	165.10	74.889	1.500	38.10	334.07	5.966	1.005	25.53	AT
LHP 130J 06S													1.750	44.45	278.02	4.965	1.155	29.34	AU
LHP 142J 01S	0.720	18.29	0.750	19.05	0.375	9.53	0.142	3.61	400	2758	220.51	100.023	0.625	15.88	1853.39	33.098	0.506	12.85	AP
LHP 142J 02S													0.750	19.05	1356.24	24.220	0.588	14.94	AS
LHP 142J 03S	0.720	18.29	0.750	19.05	0.375	9.53	0.142	3.61	400	2758	220.51	100.023	1.000	25.40	882.69	15.763	0.750	19.05	AS
LHP 142J 04S													1.250	31.75	654.25	11.684	0.913	23.19	AT
LHP 142J 05S	0.720	18.29	0.750	19.05	0.375	9.53	0.142	3.61	400	2758	220.51	100.023	1.500	38.10	519.74	9.282	1.075	27.31	AU
LHP 142J 06S													1.750	44.45	431.11	7.699	1.238	31.45	AW
LHP 156J 01S	0.720	18.29	0.750	19.05	0.375	9.53	0.156	3.96	500	3447	275.24	124.849	0.625	15.88	3144.43	56.153	0.538	13.67	AW
LHP 156J 02S													0.750	19.05	2247.05	40.128	0.628	15.95	AX
LHP 156J 03S	0.720	18.29	0.750	19.05	0.375	9.53	0.156	3.96	500	3447	275.24	124.849	1.000	25.40	1430.53	25.546	0.807	20.50	AY
LHP 156J 04S													1.250	31.75	1049.26	18.738	0.987	25.07	AY
LHP 156J 05S	0.720	18.29	0.750	19.05	0.375	9.53	0.156	3.96	500	3447	275.24	124.849	1.500	38.10	828.46	14.795	1.167	29.64	AZ
LHP 156J 06S													1.750	44.45	684.43	12.223	1.347	34.21	AZA
LHP 156K 01S	0.845	21.46	0.875	22.23	0.438	11.13	0.156	3.96	300	2068	225.07	102.092	0.750	19.05	1401.56	25.029	0.590	14.99	AW
LHP 156K 02S													1.000	25.40	892.28	15.934	0.748	19.00	AX
LHP 156K 03S	0.845	21.46	0.875	22.23	0.438	11.13	0.156	3.96	300	2068	225.07	102.092	1.250	31.75	654.46	11.687	0.906	23.01	AY
LHP 156K 04S													1.500	38.10	516.74	9.228	1.064	27.03	AZ
LHP 156K 05S	0.845	21.46	0.875	22.23	0.438	11.13	0.156	3.96	300	2068	225.07	102.092	1.750	44.45	426.90	7.624	1.222	31.04	AZA
LHP 156K 06S													2.000	50.80	363.68	6.495	1.380	35.05	AZA
LHP 170K 01S	0.845	21.46	0.875	22.23	0.438	11.13	0.170	4.32	400	2758	300.07	136.112	0.750	19.05	2281.61	40.745	0.619	15.72	AW
LHP 170K 02S													1.000	25.40	1417.36	25.311	0.788	20.02	AX
LHP 170K 03S	0.845	21.46	0.875	22.23	0.438	11.13	0.170	4.32	400	2758	300.07	136.112	1.250	31.75	1027.98	18.358	0.958	24.33	AY
LHP 170K 04S													1.500	38.10	806.43	14.401	1.128	28.65	AZA
LHP 170K 05S	0.845	21.46	0.875	22.23	0.438	11.13	0.170	4.32	400	2758	300.07	136.112	1.750	44.45	663.45	11.848	1.297	32.94	AZB
LHP 170K 06S													2.000	50.80	563.53	10.064	1.467	37.26	AZB
LHP 177K 01S	0.845	21.46	0.875	22.23	0.438	11.13	0.177	4.50	500	3447	375.23	170.204	0.750	19.05	2972.75	53.087	0.624	15.85	AY
LHP 177K 02S													1.000	25.40	1822.30	32.543	0.794	20.17	AZ
LHP 177K 03S	0.845	21.46	0.875	22.23	0.438	11.13	0.177	4.50	500	3447	375.23	170.204	1.250	31.75	1313.85	23.463	0.964	24.49	AZA
LHP 177K 04S													1.500	38.10	1027.23	18.344	1.135	28.83	AZB
LHP 177K 05S	0.845	21.46	0.875	22.23	0.438	11.13	0.177	4.50	500	3447	375.23	170.204	1.750	44.45	843.27	15.059	1.305	33.15	AZC
LHP 177K 06S													2.000	50.80	715.19	12.772	1.475	37.47	AZD

COMPRESSION SPRINGS



### SPECIAL INSTRUCTIONS FOR HIGH PRESSURE COMPRESSION SERIES

**PRICING:** See Inside Front Cover for up to 199 pcs. To price or order up to 1000 pcs., visit [leespring.com](http://leespring.com); 1000+ pcs. contact Lee Spring.  
**CALCULATIONS:** Spring Rate and Approx. Load at Solid Hgt. are pre-calculated for Type 17-7 PH Stainless Steel.



# COMPRESSION SPRINGS: HIGH PRESSURE SERIES (INCH)

ENDS ARE GROUND • Type 17-7 PH Stainless Steel (Shotpeened, Passivated)

COMPRESSION SPRINGS

LEE STOCK NUMBER	OUTSIDE DIAMETER		TO WORK IN HOLE DIAMETER		TO WORK OVER ROD DIAMETER		WIRE DIAMETER		PRESSURE @ 80% DEFLECTION		APPROX. LOAD AT SOLID HGT.		FREE LENGTH		SPRING RATE		SOLID HEIGHT		PRICE GROUP
	IN.	MM	IN.	MM	IN.	MM	IN.	MM	PSI	kPa	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	
LHP 177L 01S	0.970	24.64	1.000	25.40	0.500	12.70	0.177	4.50	300	2068	293.91	133.318	0.750	19.05	1953.38	34.883	0.600	15.24	AZ
LHP 177L 02S													1.000	25.40	1197.43	21.384	0.755	19.18	AZA
LHP 177L 03S													1.250	31.75	863.33	15.417	0.909	23.09	AZB
LHP 177L 04S													1.500	38.10	674.99	12.054	1.064	27.03	AZC
LHP 177L 05S													1.750	44.45	554.11	9.895	1.219	30.96	AZD
LHP 177L 06S													2.000	50.80	469.95	8.392	1.374	34.90	AZE
LHP 192L 01S	0.970	24.64	1.000	25.40	0.500	12.70	0.192	4.88	400	2758	391.89	177.761	0.750	19.05	3154.51	56.333	0.626	15.90	AZD
LHP 192L 02S													1.000	25.40	1874.27	33.471	0.791	20.09	AZE
LHP 192L 03S													1.250	31.75	1333.20	23.808	0.956	24.28	AZF
LHP 192L 04S													1.500	38.10	1034.54	18.475	1.121	28.47	AZG
LHP 192L 05S													1.750	44.45	845.20	15.094	1.286	32.66	AZH
LHP 192L 06S													2.000	50.80	714.45	12.759	1.451	36.86	AZH
LHP 207L 01S	0.970	24.64	1.000	25.40	0.500	12.70	0.207	5.26	500	3447	489.41	221.996	0.750	19.05	4962.33	88.617	0.652	16.56	AZE
LHP 207L 02S													1.000	25.40	2845.30	50.811	0.828	21.03	AZF
LHP 207L 03S													1.250	31.75	1994.43	35.617	1.004	25.50	AZG
LHP 207L 04S													1.500	38.10	1535.31	27.418	1.181	30.00	AZH
LHP 207L 05S													1.750	44.45	1248.01	22.287	1.357	34.47	AZJ
LHP 207L 06S													2.000	50.80	1051.29	18.774	1.534	38.96	AZK

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