

COMPRESSION SPRINGS



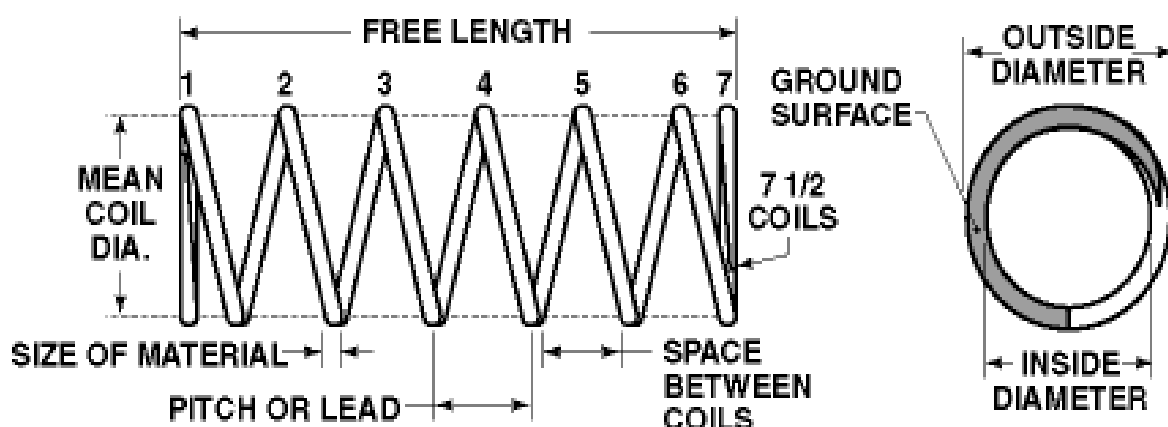
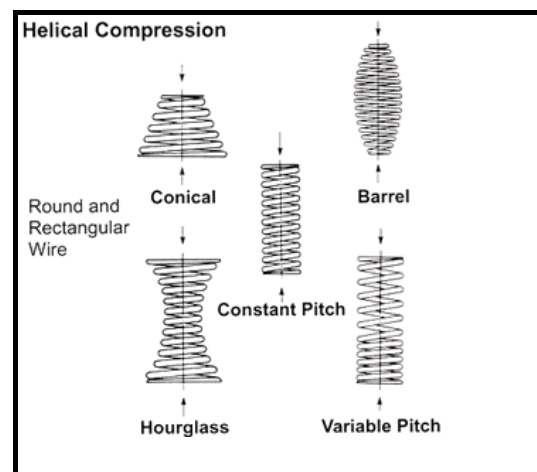
Compression Springs are an open coil helical spring that offers resistance to a compressive force applied axially. Compression springs are usually coiled as a constant diameter cylinder.

The Stock springs found in this catalogue are made from round wire; either range 2 or zinc plated and are of a cylindrical style. All measurements are in millimetres. **Prices subject to change without notification.** Stainless Steel springs manufactured upon request.

Other forms of Compression springs include conical, concave and convex. These type of compression springs are manufactured to your specification's only. If your required spring is not available in our Stock range, **we manufacture to Order from 0.25mm to 20.0mm and Mass produce from 0.25mm to 10.0mm.**

The following is required for Ordering:

- * Free Length (maximum & minimum)
- * Outside Diameter
- * Wire Type and Size
- * Number of Coils
- * Right or Left Hand Wound
- * Finish: Plain unless otherwise specified
- * Ground or not



Part No :	Wire :	O/D :	Length :	Coils :	Rate : n/mm	Qty / Pkt :
C0355-01	0.355	2.5	12.7	13.5	0.814	4
C0355-02	0.355	2.8	19	20	0.52	4
C0355-03	0.355	2.8	25.4	25.5	0.399	4
C05-01	0.5	7.5	13	7.5	0.328	4
C05-02	0.5	4.7	20	11	1.045	4
C05-03	0.5	4.7	38	18	0.523	4
C05-04	0.5	5.8	18	11	0.462	4
C056-01	0.56	6	38	22	0.303	4
C056-02	0.56	4.5	10	7	2.772	4
C056-03	0.56	7.9	38	12	0.246	4
C056-04	0.56	7.9	76	23	0.117	2
C056-05	0.56	4.5	24	15	1.226	4
C056-06	0.56	4.7	16	10	1.717	4
C056-07	0.56	6.3	25.4	14	0.43	4
C06-01	0.6	6	19	11	0.906	4
C06-02	0.6	6	38	22	0.408	4
C06-03	0.6	6.5	18	8	1.042	4
C071-01	0.71	8.4	28	9	0.791	4
C071-02	0.71	7.9	44	15	0.521	4
C071-03	0.71	7.9	25	11	0.753	4
C08-01	0.8	6	13	7	5.774	4
C08-02	0.8	10	25	10	0.652	4
C08-03	0.8	10	13	5	1.738	4
C08-04	0.8	8	19	10	1.36	4
C08-05	0.8	6.8	18.5	8	3.132	4
C09-01	0.9	9	38	14	1.02	4
C09-02	0.9	12.2	28	9	0.644	4
C09-03	0.9	7.4	50	18.5	1.435	4
C09-04	0.9	9.5	19	7	2.045	4
C09-05	0.9	9.5	67	20	0.568	2
C09-06	0.9	11	76	25	0.274	2
C09-07	0.9	9.5	32	11	1.136	4
C09-08	0.9	10.5	34	12	0.668	4
C09-09	0.9	14	30	9	0.482	4
C1-01	1	6.2	28.5	14	5.874	2
C1-02	1	11.9	30	7	1.531	2
C1-03	1	11.5	50	12	0.856	2

C1-04	1	8.3	38	16	1.82	2
C1-05	1	16	28	6	0.734	2
C1-06	1	10	19	7	2.719	2
C1-07	1	8.7	11	4.25	9.649	2
C1-08	1	10	38	14	1.133	2
C1-09	1	15	18	5	1.204	2
C1-10	1	12.3	60	14	0.572	2
C1-11	1	16	26	6	0.734	2
C11-01	1.1	13	50	14	0.718	2
C125-01	1.25	7.6	26	11	10.5	2
C125-02	1.25	13	31	8.5	2.295	2
C125-03	1.25	10	12.7	5	12.04	2
C125-04	1.25	15.5	52	11	0.929	2
C125-05	1.25	11	57	16	1.865	2
C125-06	1.25	8	18	7	15.736	4
C125-07	1.25	13	90	16.5	10.29	2
C14-01	1.4	13.2	50	12	2.149	2
C14-02	1.4	15.2	60	13	1.317	2
C14-03	1.4	8	26	10.5	15.581	2
C14-04	1.4	16	70	12.5	1.165	2
C14-05	1.4	11.2	21	7	8.091	2
C14-06	1.4	13.4	68	13	2.003	2
C14-07	1.4	9.2	47	17	5.349	2
C16-01	1.6	18.7	63	10.5	1.528	2
C16-02	1.6	14.5	100	20	1.681	2
C16-03	1.6	16.9	85	18	1.133	2
C16-04	1.6	14.2	17.5	4	16.236	2
C16-05	1.6	13.2	27	7	8.323	2
C16-06	1.6	13.5	73	17	2.57	2
C16-07	1.6	12.7	25	10	5.937	2
C16-09	1.6	14	60	13	3.097	2
C16-10	1.6	16	95	17	1.45	2
C16-11	1.6	11.7	60	20	3.502	2
C16-12	1.6	14.4	60	17.5	1.998	2
C16-13	1.6	9.8	26	9	16.829	2
C18-01	1.8	16.5	40	8	5.459	2
C18-02	1.8	12.5	60	14	7.078	2
C2-01	2	16	180	36	1.7	1
C2-02	2	18.7	72	15	2.619	2
C2-03	2	20	30	8	4.532	2
C2-04	2	12.7	150	37	3.699	1

C2-05	2	16.5	60	12.5	4.954	2
C2-06	2	61.5	50	4	0.376	1
C2-07	2	19.4	32	6.5	6.689	2
C2-08	2	18.6	34.5	6.5	7.704	2
C224-01	2.24	16	180	35	2.902	1
C224-02	2.24	19	100	16	3.786	2
C224-03	2.24	19	50	8	8.834	2
C224-04	2.24	18.4	34.5	8	9.855	2
C224-05	2.24	25	180	24	0.962	1
C25-01	2.5	15.2	52	9.5	25.201	1
C25-02	2.5	25	51	9.5	4.532	1
C25-03	2.5	22	200	24	2.373	1
C25-04	2.5	53	140	8.5	0.462	1
C25-05	2.5	26.5	33	5.5	8.002	1
C25-06	2.5	31	130	12.25	1.632	1
C28-01	2.8	18.7	67	11	16.839	2
C28-02	2.8	25.5	200	24	2.367	1
C315-01	3.15	20	30	6	50.993	2
C315-02	3.15	29	200	23	2.69	1
C315-03	3.15	50	73	5	3.163	1
C315-04	3.15	25.4	130	15	6.815	1
C355-01	3.55	29.5	80	11.5	9.482	1
C355-02	3.55	57.3	145	8.5	1.56	1
C4-01	4	35	230	22	4.258	1
C4-02	4	43	60	6.5	9.505	1
C45-01	4.5	37	150	17	7.893	1
C45-02	4.5	25	37	5.25	145.156	1
C5-01	5	40	150	12	14.448	1
C56-01	5.6	50	150	11	12.373	1
C56-02	5.6	50	100	8	18.56	1
C56-03	5.6	36	78	9	49.563	1

**Please Note: If what you require is not in our Stock List, we make to order
Any size and quantity.**

EXTENSION SPRINGS



Extension Springs are springs which absorb and store energy by offering resistance to a pulling force. Various types of ends are used to attach the extension spring to the source of the force.

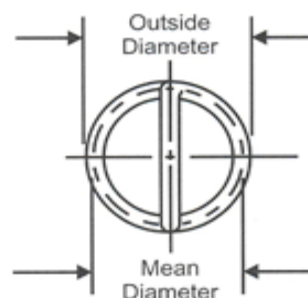
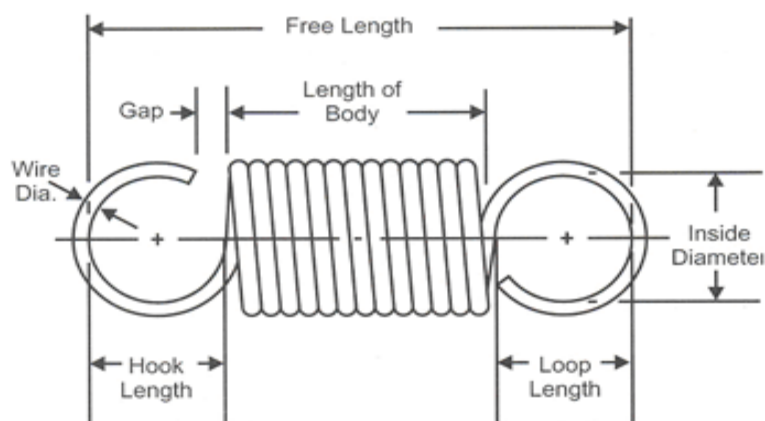
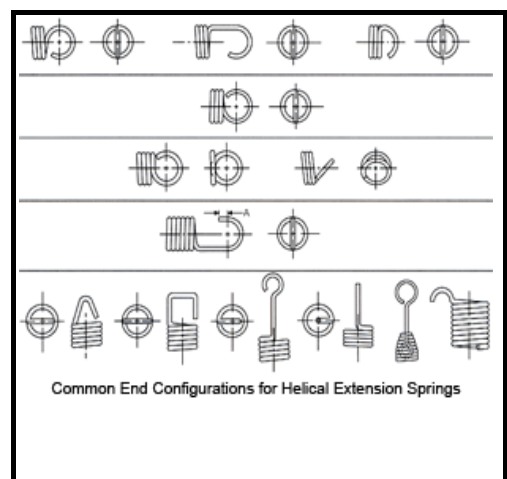
The Stock range found in this catalogue are made from either range 2 wire or are zinc plated and have full loops each end. All measurements are in millimetres. Price subject to change without notification. Stainless Steel springs manufactured upon request.

Please Note: Extension springs are usually wound with initial tension. If the type of extension spring you require is not in this catalogue, we will manufacture to your order specifications or Sample. If you are not sure of the dimensions you require, we can design the spring for you.

We manufacture from 0.25mm to 12.7mm.

The following information is required for ordering

- * Overall Length (maximum & minimum)
- * Outside Diameter
- * Wire Size and Type
- * Style of Ends
- * Right or Left hand wound
- * Finish: Plain unless otherwise specified.



Part No :	Wire :	Outside Diameter :	Overall Length :	Rate : n/mm	Qty/Pkt :
T045-01	0.45	4.7	25	0.14	4
T045-02	0.45	4.7	15	0.344	4
T05-01	0.5	6	50	0.044	2
T056-01	0.56	5.5	20	0.385	4
T056-02	0.56	5.5	62	0.084	2
T060-01	0.6	6.3	29	0.231	4
T060-02	0.6	9	51	0.043	2
T071-01	0.71	8	40	0.146	2
T08-01	0.8	8	52	0.201	2
T08-02	0.8	7.2	90	0.153	2
T08-03	0.8	7.6	30	0.478	2
T09-01	0.9	11	100	0.062	2
T1-01	1	8.7	80	0.244	2
T1-02	1	8.5	105	0.245	2
T1-03	1	8.5	120	0.212	2
T1-04	1	8.5	50	0.567	2
T125-01	1.25	12	66	0.426	1
T125-02	1.25	8.8	115	0.662	1
T125-03	1.25	12.7	76.2	368	1
T14-01	1.4	13	125	0.296	1
T14-02	1.4	12.7	92	0.445	1
T14-03	1.4	9.8	165	0.577	1
T16-01	1.6	11	55	2.734	2
T16-02	1.6	14.5	130	0.401	1
T16-03	1.6	12.7	180	0.446	1
T16-04	1.6	17.25	154	0.167	1
T16-05	1.6	12.7	120	0.687	1
T16-06	1.6	15.5	100	0.395	1
T16-07	1.6	11.7	55	2.202	2
T18-01	1.8	12.7	148	1.043	1
T18-02	1.8	12.6	133	1.206	1
T18-03	1.8	12.7	180	0.913	1
T18-04	1.8	13.5	123	1.153	1

T2-01	2	15	380	0.39	1
T2-02	2	16	180	0.678	1
T2-03	2	14	180	1.077	1
T2-04	2	19	185	0.369	1
T2-05	2	16	40	3.852	2
T2-06	2	20	58	1.124	2
T2-07	2	19	205	0.331	1
T2-08	2	20	230	0.247	1
T2-09	2	17.5	120	0.774	1
T2-10	2	20	47	1.454	2
T2-11	2	20	100	0.604	1
T2-12	2	18.5	210	0.353	1
T2-13	2	20	200	0.286	1
T2-14	2	16.8	87	1.631	1
T224-01	2.24	20	80	1.396	1
T224-02	2.24	26.3	195	0.218	1
T25-01	2.5	19	185	1.24	1
T25-02	2.5	25	320	0.276	1
T25-03	2.5	12.5	250	4.054	1
T25-04	2.5	13.5	65	13.282	2
T25-05	2.5	14.7	85	7.131	2
T25-06	2.5	21.8	200	0.71	1
T25-07	2.5	16	187	2.229	1
T25-08	2.5	17.5	55	10.429	1
T28-01	2.8	22	190	1.343	1
T28-02	2.8	25.5	200	0.772	1
T28-03	2.8	21.8	128	2.115	1
T28-04	2.8	25	308	0.58	1
T315.01	3.15	25.4	100	3.13	1
T315-02	3.15	25.4	225	1.303	1
T315-03	3.15	21	215	2.648	1
T315-04	3.15	22.5	193	2.328	1
T315-05	3.15	25.3	147	2.079	1
T315-06	3.15	28.5	130	2.304	1
T315-07	3.15	25.4	145	1.89	1
T355-01	3.55	30	120	2.78	1
T355-02	3.55	30	200	1.602	1
T355-03	3.55	30.8	250	1.454	1
T4-01	4	30	150	4.172	1

T4-02	4	30	255	2.374	1
T45-01	4.5	34	250	2.998	1
T45-02	4.5	30	200	5.878	1
T5-01	5	40	300	2.517	1
T5-02	5	40	250	3.055	1
T56-01	5.6	45	190	5.059	1
T56-02	5.6	45	260	3.622	1

**Please Note: If what you require is not in our Stock List, we make to order
Any size and quantity.**

TORSION SPRINGS

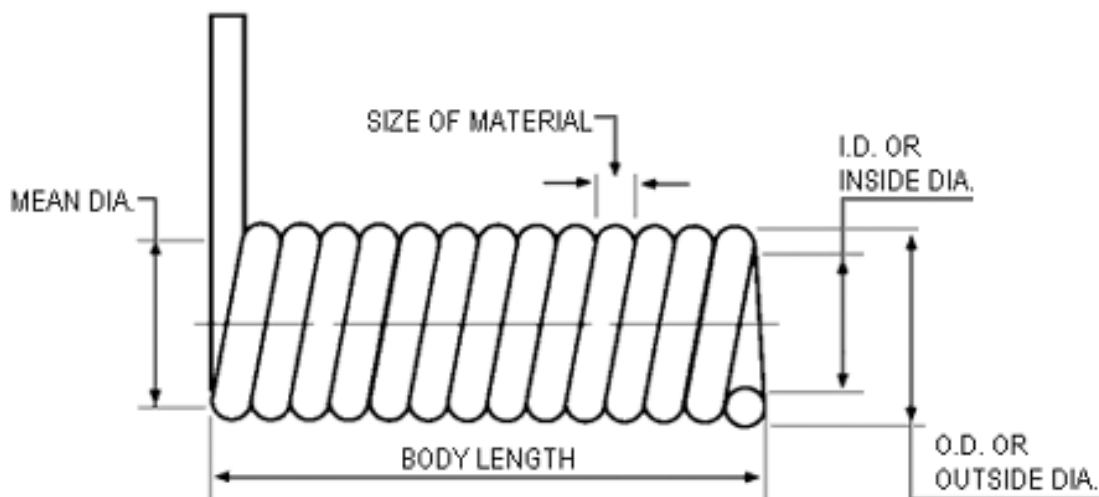
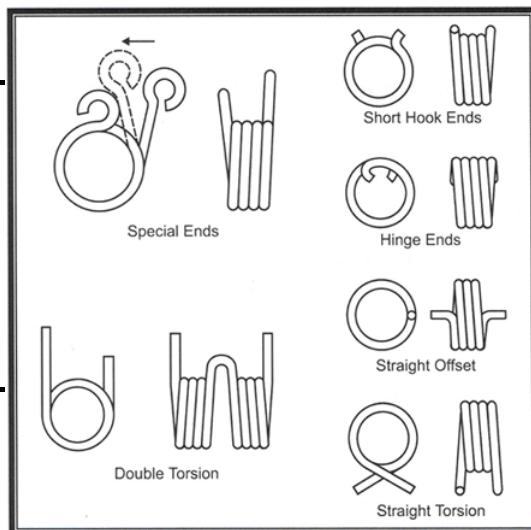


Torsion Springs are made to offer resistance to applied torque. Springs of this type are usually close wound, reduced in coils diameter, and increase in body length as they are deflected. Torsion Springs can also be manufactured as a double torsion. Double torsion springs have a right and left hand coil section connected together and working in parallel.

Bell Springs custom manufactures any Torsion Spring to your own sample or specifications

The following is required for ordering.

- * Inside Diameter
- * Outside Diameter
- * Free Length
- * Right or Left Hand Wound
- * Wire Size and Type
- * Finish, Plain unless otherwise specified
- * Style of Legs and Length.



TAILGATE TORSION



Tailgate Springs are designed to assist with the lifting and lowering and not take the total weight. The ramp or Tailgate must overcome the resistance of the spring so that it is able to stay on the ground once lowered.

Selecting the correct assist spring

EL = Estimated Load

W= Weight of tailgate in Kg measured at furthest point

L= Length of tailgate (meters)

$EL = W \times L$

Eg Tailgate length = 2.5m, Weight at furthest point = 85 kg

$EL = 85 \times 25$

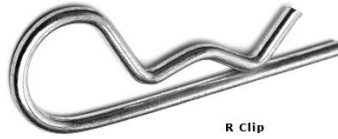
Using the example above

$EL = 212.5\text{Kg}$ (when using in pairs divide the load by half, ie 106.25kg)

Therefore from the table below HF001/19 would be selected when using a pair.

PART NUMBER	DESCRIPTION	Kg supported	at 1 meter
		90deg	120deg
HF001/13	Tailgate Torsion Spring Short Leg - 13mm	12	17
HF001/14	Tailgate Torsion Spring Short Leg - 14mm	17	30
HF001/16	Tailgate Torsion Spring Short Leg - 16mm	30	50
HF001/17	Tailgate Torsion Spring Short Leg - 17mm	45	70
HF001/19	Tailgate Torsion Spring Short Leg - 19mm	70	105
HF002/13	Tailgate Torsion Spring Long Leg - 13mm	12	17
HF002/14	Tailgate Torsion Spring Long Leg - 14mm	17	25
HF002/16	Tailgate Torsion Spring Long Leg - 16mm	30	45
HF002/17	Tailgate Torsion Spring Long Leg - 17mm	40	55
HF002/19	Tailgate Torsion Spring Long Leg - 19mm	65	90
HF003/17	Tailgate Torsion Low Loader 17mm	40	55
HF003/19	Tailgate Torsion Low Loader 19mm	65	90

R-CLIPS



Code No :		Wire		TO suit shaft
B8		2.0mm		6-11mm
B9		2.5mm		8-12mm
B10		3.0mm		10-12mm
B12		4.0mm		12-22mm
B13		5.0mm		16-27mm
B14		6.0mm		19-32mm
B15		7.0mm		25-38mm

TOOL CLIPS



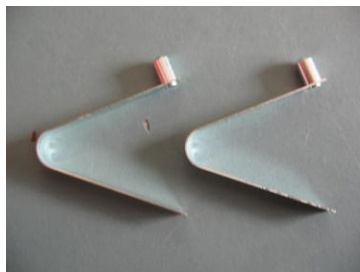
Code No:			To Grip Diameter		
Zinc Plated			inch		mm
80025			0.250		6
80037			0.375		10
80050			0.500		13
80062			0.625		16
80075			0.750		19
80100			1.000		25
80112			1.125		28
80125			1.250		32
80150			1.500		38
80200			2.000		51

BUTTON CLIPS

Button Clips also known as Tube clips are used for adjusting height. The button locates within a tube and penetrates through when the hole is in alignment. V Shape and Pear Shape are a Stock Item.

V Shape Single Button and Double Button – Designed to suit between 1/2” and 5/8” tubing. The buttons are solid with a height of 10.0mm and an outside diameter of 6.3mm. The surface finish is Zinc Plating.

Pear Shape Button Clips – Designed to suit 1” tubing. The buttons are solid with a height of 10.0mm and an outside diameter of 9.5mm. The Surface finish is Zinc Plating.



V Shape



Pear Shape

Please Note: If what you require is not in our Stock List, we make to order any Size, material and quantity.

PILATES / REFORMER SPRINGS

Our Stock Range is manufactured to suit the Anthony Lett Pilates Machines. Zinc Plated with Swivel eye. Available in Light, Medium and Heavy. Please Contact us for dimensional specifications if required. We also manufacture a wide range of Pilates springs to your own sample or specifications. Price available upon request.



STAINLESS STEEL SHIM STOCKLIST



Material Size		Grade		Hardness
0.2 x 300		301		Full
0.25 x 300		301		Full
0.3 x 320		304		Full
0.3 x 300		304		3/4
0.4 x 500		304		Full
0.4 x 300		304		Full
0.5 x 320		304		Full
0.6 x 320		304		Full
0.8 x 300		304		Full
1.0 x 280		304		Full

Price Available upon Request