



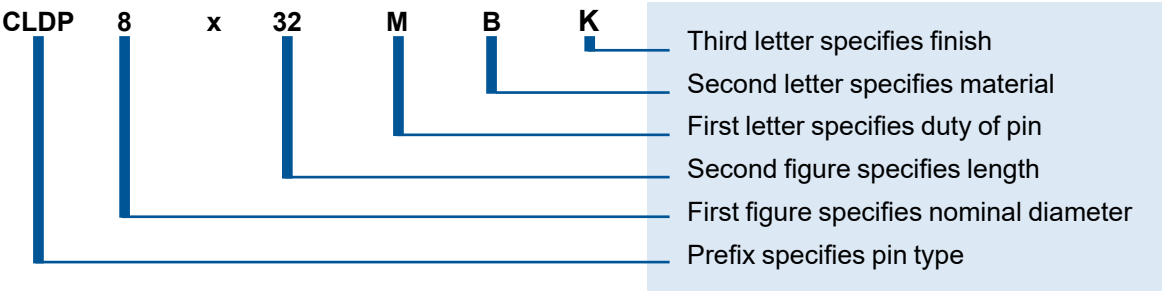
STANDARD COILED SPRING PINS SPECIFICATIONS AND TECHNICAL DATA



PIN DUTIES	MATERIAL	FINISHES
M Standard	B High Carbon Steel	K Plain, Oiled
H Heavy	C Chrome Stainless Steel	T Electroplated Zinc
L Light	D Nickel Stainless Steel	
	W Alloy Steel	

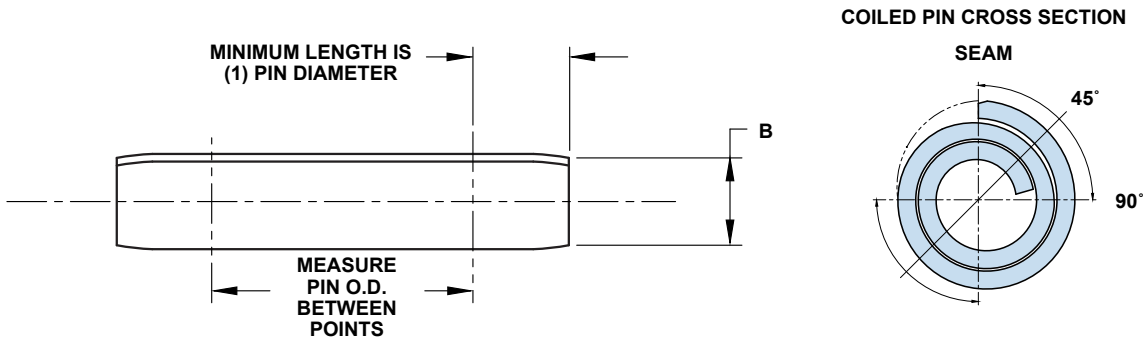
Identification Code

Coiled Pin 8mm diameter x 32mm length standard duty/carbon steel/plain finish



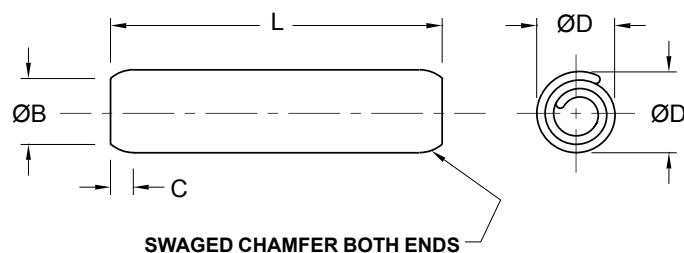
How to Measure the Diameter of a Coiled Spring Pin

The outside diameter of a Coiled Pin is to be measured with a micrometer from the seam (0° point) through the 90° point. Diameter is to be measured a minimum of one pin diameter in length from the end of the pin.



NOTES

- Standard specifications apply except where otherwise specified.
- All dimensions apply prior to plating.
- Electroplated zinc is not available for pins greater than or equal to 8mm and .312" nominal diameter.
- The standard finish for stainless steel pins is plain. Passivated pins are available at an additional cost.
- Special sizes, duties, materials and finishes, including oil-free pins, are available upon request.



NOMINAL DIAMETER		1.5	2	2.5	3	3.5	4	5	6	8
DIAMETER ØD	MAX.	1.75	2.28	2.82	3.35	3.87	4.45	5.50	6.55	8.65
	MIN.	1.62	2.13	2.65	3.15	3.67	4.20	5.20	6.25	8.30
CHAMFER	B DIA. MAX.	1.40	1.90	2.40	2.90	3.40	3.90	4.85	5.85	7.80
	C LENGTH REF.	0.50	0.70	0.70	0.90	1.00	1.10	1.30	1.50	2.00
RECOMMENDED HOLE SIZE	MAX.	1.60	2.10	2.60	3.10	3.62	4.12	5.12	6.15	8.15
	MIN.	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00	8.00

Note: All dimensions apply prior to plating.

MINIMUM DOUBLE SHEAR STRENGTH kN

NOMINAL DIAMETER		1.5	2	2.5	3	3.5	4	5	6	8
CARBON		0.80	1.50	2.30	3.30	4.50	5.70	9	13	23
ALLOY STEEL										
CHROME STAINLESS										
NICKEL STAINLESS		0.65	1.10	1.80	2.50	3.40	4.40	7	10	18

Note: Shear tests performed in accordance ASME B18.8.3M and ISO 8749.

STANDARD LENGTHS

NOMINAL DIAMETER		1.5	2	2.5	3	3.5	4	5	6	8
LENGTHS	6									
	8									
	10									
	12									
	14									
	16									
	18									
	20									
	22									
	24									
	26									
	28									
	30									
	32									
	35									
	40									
	45									
	50									
	55									
	60									
	65									
	70									
	75									
	80									
	85									
	90									
	95									

Interchangeable mm and Inch Pins

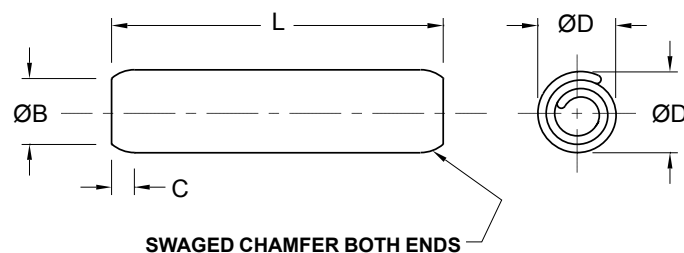
mm Diameter	Inch Diameter
2.0	.078 5/64
4.0	.156 5/32
8.0	.312 5/16

Nominal Pin Length	Length Tolerance
Nominal Pin Size	ø1.5 - 8
L ≤ 10	±0.25
10 < L ≤ 50	±0.5
50 < L	±0.75

Pin Straightness Tolerance ¹		
Gage Hole Diameter		
Specified Maximum Pin Diameter Plus:		
Nominal Pin Length	Min.	Max.
L ≤ 24	0.18	0.2
24 < L ≤ 50	0.3	0.34
50 < L	0.42	0.48

Only available in stainless steel Available in high carbon and stainless steels

¹ Pin must fall through the gage by its own weight.



NOMINAL DIAMETER		.062 1/16	.078 5/64	.094 3/32	.109 7/64	.125 1/8	.156 5/32	.187 3/16	.219 7/32	.250 1/4	.312 5/16
DIAMETER ØD	MAX.	.073	.089	.106	.121	.139	.172	.207	.240	.273	.339
	MIN.	.067	.083	.099	.114	.131	.163	.196	.228	.260	.324
CHAMFER	B DIA. MAX.	.059	.075	.091	.106	.121	.152	.182	.214	.243	.304
	C LENGTH REF.	.028	.032	.038	.038	.044	.048	.055	.065	.065	.080
RECOMMENDED HOLE SIZE	MAX.	.065	.081	.097	.112	.129	.160	.192	.224	.256	.319
	MIN.	.062	.078	.094	.109	.125	.156	.187	.219	.250	.312

Note: All dimensions apply prior to plating.

MINIMUM DOUBLE SHEAR STRENGTH LBS.

NOMINAL DIAMETER		.062 1/16	.078 5/64	.094 3/32	.109 7/64	.125 1/8	.156 5/32	.187 3/16	.219 7/32	.250 1/4	.312 5/16
CARBON		205	325	475	650	825	1,300	1,900	2,600	3,300	5,200
CHROME STAINLESS											
NICKEL STAINLESS		160	250	360	500	650	1,000	1,450	2,000	2,600	4,000

Note: Shear tests performed in accordance with ASME B18.8.2.

STANDARD LENGTHS

NOMINAL DIAMETER		.062 1/16	.078 5/64	.094 3/32	.109 7/64	.125 1/8	.156 5/32	.187 3/16	.219 7/32	.250 1/4	.312 5/16
LENGTHS	.250 1/4										
	.312 5/16										
	.375 3/8										
	.437 7/16										
	.500 1/2										
	.562 9/16										
	.625 5/8										
	.687 11/16										
	.750 3/4										
	.812 13/16										
	.875 7/8										
	.937 15/16										
	1.000 1										
	1.125 1-1/8										
	1.250 1-1/4										
	1.375 1-3/8										
	1.500 1-1/2										
	1.625 1-5/8										
	1.750 1-3/4										
	1.875 1-7/8										
	2.000 2										
	2.250 2-1/4										
	2.500 2-1/2										
	2.750 2-3/4										
	3.000 3										
	3.250 3-1/4										
	3.500 3-1/2										
	3.750 3-3/4										

Interchangeable
Inch and mm Pins

Inch Diameter	mm Diameter
.078 5/64	2.0
.156 5/32	4.0
.312 5/16	8.0

Nominal Pin Length	Length Tolerance
Nominal Pin Size	ø1/16 - 1/4
L ≤ 2.000	± .010
2.000 < L ≤ 3.000	± .015
3.000 < L	± .025

Nominal Pin Length	Pin Straightness Tolerance ¹	Gage Length ±.005
L ≤ 1.000	.007	1.000
1.000 < L ≤ 2.000	.010	2.000
2.000 < L	.013	3.000

Only available in stainless steel Available in high carbon and stainless steels

¹ Pin must fall through a hole gauge in length equal to the next one-inch increment over the pin length with a hole equal to the maximum specified pin diameter plus the straightness tolerance by its own weight.

Technical Centres

Europe SPIROL United Kingdom
17 Princewood Road
Corby, Northants
NN17 4ET United Kingdom
Tel: +44 (0) 1536 444800
Fax: +44 (0) 1536 203415

SPIROL France
Cité de l'Automobile ZAC Croix Blandin
18 Rue Léna Bernstein
51100 Reims, France
Tel: +33 (0) 3 26 36 31 42
Fax: +33 (0) 3 26 09 19 76

SPIROL Germany
Ottostr. 4
80333 Munich, Germany
Tel: +49 (0) 89 4 111 905 71
Fax: +49 (0) 89 4 111 905 72

SPIROL Spain
Plantes 3 i 4
Gran Via de Carles III, 84
08028, Barcelona, Spain
Tel/Fax: +34 932 71 64 28

SPIROL Czech Republic
Evropská 2588 / 33a
160 00 Prague 6-Dejvice
Czech Republic
Tel: +420 226 218 935

SPIROL Poland
ul. Solec 38 lok. 10
00-394, Warsaw, Poland
Tel. +48 510 039 345

Americas SPIROL International Corporation
30 Rock Avenue
Danielson, Connecticut 06239 U.S.A.
Tel. +1 860 774 8571
Fax. +1 860 774 2048

SPIROL Shim Division
321 Remington Road
Stow, Ohio 44224 U.S.A.
Tel. +1 330 920 3655
Fax. +1 330 920 3659

SPIROL Canada
3103 St. Etienne Boulevard
Windsor, Ontario N8W 5B1 Canada
Tel. +1 519 974 3334
Fax. +1 519 974 6550

SPIROL Mexico
Avenida Avante #250
Parque Industrial Avante Apodaca
Apodaca, N.L. 66607 Mexico
Tel. +52 81 8385 4390
Fax. +52 81 8385 4391

SPIROL Brazil
Rua Mafalda Barnabé Soliane, 134
Comercial Vitória Martini,
Distrito Industrial,
CEP 13347-610, Indaiatuba, SP, Brazil
Tel. +55 19 3936 2701
Fax. +55 19 3936 7121

Asia Pacific SPIROL Asia Headquarters
1st Floor, Building 22, Plot D9, District D
No. 122 HeDan Road
Wai Gao Qiao Free Trade Zone
Shanghai, China 200131
Tel: +86 (0) 21 5046-1451
Fax: +86 (0) 21 5046-1540

SPIROL Korea
16th Floor, 396 Seocho-daero,
Seocho-gu, Seoul, 06619, South Korea
Tel: +82 (0) 10 9429 1451

e-mail: info-uk@spirol.com

SPIROL.co.uk



Coiled Spring Pins



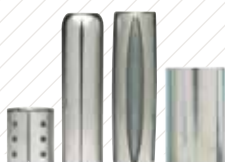
Slotted Spring Pins



Solid Pins



Alignment Dowels / Bushings



Spacers & Rolled Tubular Components



Compression Limiters



Threaded Inserts for Plastics



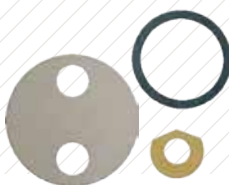
Railroad Nuts



Disc Springs



Precision Shims & Thin Metal Stampings



Precision Washers



Parts Feeding Technology



Pin Installation Technology



Insert Installation Technology



Compression Limiter Installation Technology

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