

SPIROL®

316 STAINLESS STEEL COILED SPRING PINS

What are Coiled Spring Pins?

SPIROL invented the Coiled Spring Pin in 1948. Easily recognized by its unique 2¼ coil cross-section, Coiled Pins are self-retaining pins that compress when installed into the host component. They are the only pins with uniform strength and flexibility after insertion. Their shock absorbing design dampens forces and vibration to prevent hole damage and prolong assembly life.

Why 316 Stainless? For Higher Corrosion Resistance.

Type 316 stainless steel is similar to 302/304 stainless steel with a slightly higher nickel content and the addition of molybdenum. The molybdenum content increases the chemical resistance of this alloy greatly. 316 exhibits superior pitting resistance against sea water, acetic acid vapors, chlorides, sodium and calcium brines, hypochlorite solutions, phosphoric acid, and the sulfite liquors and sulfurous acids used in the paper and pulp industry.

This alloy is also austenitic, non-magnetic and non-hardenable using conventional methods. 316 stainless steel has better mechanical properties at elevated temperatures than 302/304 and offers excellent mechanical integrity at subzero temperatures.

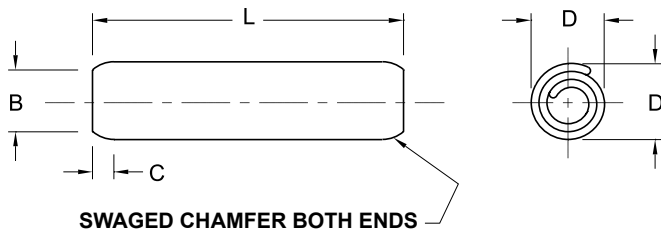
Typical Applications:

- **Marine:** Assemblies submerged or exposed to salt water and other corrosive liquids
- **Processing Equipment:** Assemblies in chemical, food, water filtration, pharmaceutical and petroleum industries
- **Industrial:** Photographic chemicals, paper, textiles, bleaches, inks, rayons and rubber
- **Oil and Gas:** Down-hole drilling and sour gas environments
- **Medical:** Surgical instruments and diagnostic equipment

Contact **SPIROL's Application Engineering Department** for assistance in specifying the correct part for your application.



SPIROL® 316 Stainless Steel Coiled Pins



SPECIFICATIONS (mm)

NOMINAL DIAMETER		2	3	4	5	6
DIAMETER	D	MAX. 2.25	3.30	4.40	5.50	6.50
		MIN. 2.13	3.15	4.20	5.25	6.25
CHAMFER	B DIAMETER	MAX. 1.90	2.90	3.90	4.85	5.85
	C LENGTH	REF. 0.70	0.90	1.10	1.30	1.50
RECOMMENDED HOLE SIZE		MAX. 2.10	3.10	4.12	5.12	6.15
		MIN. 2.00	3.00	4.00	5.00	6.00
DOUBLE SHEAR STRENGTH (kN)*		1.9	4.2	7.6	11.5	16.8
LENGTHS (mm)	8					
	10					
	12					
	14					
	16					
	18					
	20					
	22					
	24					
	26					
	28					
	30					
	32					
	35					
	40					
45						
50						

LENGTHS

* Shear tests performed in accordance with ASME B18.8.3M and ISO 8749.

- 316 Stainless Steel Coiled Pins are available through special order.
- Finish is plain.
- Other sizes, including inch, are available upon special order.

Nominal Pin Length	Length Tolerance
Nominal Pin Size	ø2 - ø6
L ≤ 10	±0.25
10 < L ≤ 50	±0.5
Pin Straightness Tolerance ¹	
Gage Hole Diameter	
Specified Maximum Pin Diameter Plus:	
Nominal Pin Length	Min. Max. Gage Length
L ≤ 24	0.18 0.2 25
24 < L ≤ 50	0.3 0.34 50

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

Ordering code example: CLDP 3 x 12 MSK

Coiled Pin 3mm diameter x 12mm length standard duty (M) / 316 stainless steel (S) / plain finish (K)

SPIROL Application Engineers will review your application needs and work with your design team to recommend the best solution. One way to start the process is to visit our **Optimal Application Engineering** portal at www.SPIROL.com.

Please refer to SPIROL.com for the most current specifications and standard offering. Printed materials may be out of date.

ISO/TS 16949 Certified
ISO 9001 Certified

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