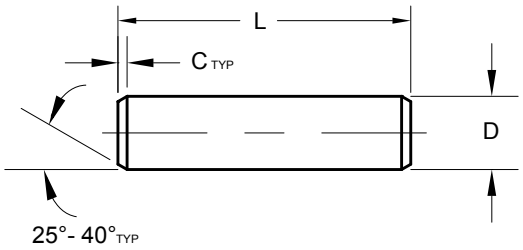
# SPIROL® STRAIGHT PINS

## Straight Pin
## Series DP100




## DIMENSIONAL DATA

| | | INCH SPECIFICATIONS | | | | | | | METRIC SPECIFICATIONS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Nominal Diameter ➤** | | | **5/64 .078** | **3/32 .094** | **1/8 .125** | **5/32 .156** | **3/16 .187** | **1/4 .250** | | **2** | **2.5** | **3** | **4** | **5** | **6** |
| Diameter "D" | Min. | .0761 | .0917 | .1230 | .1542 | .1855 | .2480 | | Min. | 1.95 | 2.45 | 2.95 | 3.95 | 4.95 | 5.95 |
| | Max. | .0781 | .0937 | .1250 | .1562 | .1875 | .2500 | | Max. | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 | 6.00 |
| Chamfer "C" | Min. | .005 | .008 | .008 | .010 | .015 | .015 | | Min. | 0.15 | 0.2 | 0.2 | 0.3 | 0.4 | 0.4 |
| Length "L" | .250 | | | | | | | | 6 | | | | | | |
| | .312 | | | | | | | | 8 | | | | | | |
| | .375 | | | | | | | | 10 | | | | | | |
| | .438 | | | | | | | | 12 | | | | | | |
| | .500 | | | | | | | | 14 | | | | | | |
| | .562 | | Length Tolerance ± .010 | | | | | | 16 | | Length Tolerance ± 0.25 | | | | |
| | .625 | | | | | | | | 20 | | | | | | |
| | .750 | | | | | | | | 24 | | | | | | |
| | .875 | | | | | | | | 26 | | | | | | |
| | 1.000 | | | | | | | | 30 | | | | | | |
| | 1.250 | | | | | | | | 35 | | | | | | |
| | 1.500 | | | | | | | | 40 | | | | | | |
| | 1.750 | | | | | | | | 45 | | | | | | |
| | 2.000 | | | | | | | | 50 | | | | | | |

Notes:
- Please consult SPIROL Engineering for recommended hole sizes when used as a press-fit.
- Other diameters and lengths available on request.

### Part Number Code

TO ORDER: SLDP (Nominal Diameter)x(Length)(Material)(Finish)(Pin Series Number)
EXAMPLE: SLDP .156 x 1.250 FK DP100

# SPIROL® MATERIALS AND FINISHES

## STANDARD MATERIALS

### Low Carbon Steel (F)
Low carbon steel is one of the most versatile materials available. This material is readily available, and is the most economical of the standard Solid Pin materials in the absence of any plating or coating. Low carbon Solid Pins have a dry to the touch rust preventative. Additional coatings and finishes can be applied to carbon steel to improve corrosion resistance, however for some applications, it may be more appropriate and cost beneficial to specify stainless steel when a high level of corrosion resistance is required.

### Austenitic (Nickel) Stainless Steel (D)
Austenitic stainless steel provides excellent corrosion protection against normal environmental conditions. It withstands fresh water and atmospheric marine conditions very well, and is suitable for many other industrial conditions including acidic environments. All austenitic stainless Solid Pins are passivated.

## STANDARD FINISHES

### Plain/Oiled (K)
This finish is a thin coating of dry-to-the touch oil that provides corrosion resistance during storage and shipping. Since this lubricating oil is suspended in a carrier which evaporates over time, the pins are dry-to-the-touch and conducive for automatic feeding and assembly.

### Passivated (P)
Passivation of stainless steel Solid Pins is a process whereby surface contaminates such as embedded tool steel and other free iron particles are removed. The sole purpose of passivation is to remove embedded iron; not to clean the part. While all stainless steel Solid Pins are passivated as a standard, there are some critical applications that absolutely require passivation such as medical devices, components used in the food or drug industry, fuel system applications, and any application requiring a clean environment.
*Available only for stainless steel.*

| MATERIALS | | FINISHES |
|---|---|---|
| TYPE | GRADE | |
| **F** - Low Carbon Steel | UNS G10220 / C20C (1.0411) | **K** - Plain, oiled |
| **D** - Stainless Steel, Austenitic (Nickel) | UNS S30500 / X4CrNi18-12 | **P** - Passivated |

## SPECIAL MATERIALS

**SPIROL** has extensive experience with special materials required for unique circumstances such as:

### Alloy Steel (W)
Alloy steel is used for applications requiring higher shear strength than our standard materials provide, or when additional hardness is required to ensure that the pin is harder than the host material into which the pin is being installed.

### Aluminum (A)
Aluminum is lightweight, lead free, and has sufficient strength for most plastic applications. Aluminum is less than half the weight of steel, and does not require any supplemental coatings or platings to provide the necessary corrosion protection in most environments.

*Other materials and finishes are available to order depending on the application requirements.*

# SPIROL® Innovative fastening solutions. Lower assembly costs.


*Please refer to **www.SPIROL.com** for current specifications and standard product offerings.*

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



## Technical Centers


**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

**Europe**

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

**SPIROL United Kingdom**
17 Princewood Road
Corby, Northants
NN17 4ET United Kingdom
Tel. +44 1536 444800
Fax. +44 1536 203415

**SPIROL Germany**
Ottostr. 4
80333 Munich, Germany
Tel. +49 89 4 111 905 71
Fax. +49 89 4 111 905 72

**SPIROL Spain**
08940 Cornellà de Llobregat
Barcelona, Spain
Tel. +34 93 193 05 32
Fax. +34 93 193 25 43

**SPIROL Czech Republic**
Sokola Tůmy 743/16
Ostrava-Mariánské Hory 70900
Czech Republic
Tel/Fax. +420 417 537 979

**SPIROL Poland**
ul. M. Skłodowskiej-Curie 7E / 2
56-400, Oleśnica, Poland
Tel. +48 71 399 44 55

**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 21 5046 1451
Fax. +86 21 5046 1540

**SPIROL Korea**
160-5 Seokchon-Dong
Songpa-gu, Seoul, 138-844, Korea
Tel. +86 (0) 21 5046-1451
Fax. +86 (0) 21 5046-1540

**e-mail:** info@spirol.com

**SPIROL**.com