

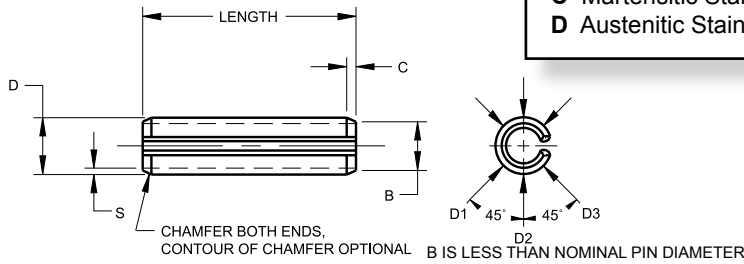
# ISO 8752 EN 28752

## PIN MATERIALS AND HARDNESS

## PIN FINISHES

<b>B</b> Carbon Steel	HV 420-520
<b>C</b> Martensitic Stainless Steel	HV 440-560
<b>D</b> Austenitic Stainless Steel	Work Hardened

<b>K</b> Plain*
<b>P</b> Passivated



\* Plain carbon steel pins have a protective oil finish.

## SPECIFICATIONS in mm

Nominal Pin Diameter	Pin Diameter D		Chamfer Length C	Wall Thickness S	Recommended Hole Size		Double Shear Strength Carbon & Martensitic S.S.
	Min. <sup>1</sup>	Max. <sup>2</sup>	Nominal	Nominal	Min.	Max.	Minimum kN
1.5	1.7	1.8	0.25	0.3	1.5	1.60	1.58
2	2.3	2.4	0.35	0.4	2.0	2.10	2.82
2.5	2.8	2.9	0.40	0.5	2.5	2.60	4.38
3	3.3	3.5	0.50	0.6	3.0	3.10	6.32
3.5	3.8	4.0	0.60	0.75	3.5	3.62	9.09
4	4.4	4.6	0.65	0.8	4.0	4.12	11.24
4.5*	4.9	5.1	0.80	1.0	4.5	4.62	15.36
5	5.4	5.6	0.90	1.0	5.0	5.12	17.54
6	6.4	6.7	1.20	1.2	6.0	6.12	26.04
8	8.5	8.8	2.00	1.5	8.0	8.15	42.76
10	10.5	10.8	2.00	2.0	10.0	10.15	70.16
12	12.5	12.8	2.00	2.5	12.0	12.18	104.1
14*	14.5	14.8	2.00	3.0	14.0	14.18	144.7 <sup>3</sup>
16	16.5	16.8	2.00	3.0	16.0	16.18	171.0 <sup>3</sup>
18*	18.5	18.9	2.00	3.5	18.0	18.18	222.5 <sup>3</sup>
20	20.5	20.9	3.00	4.0	20.0	20.21	280.6 <sup>3</sup>

<sup>1</sup> Minimum diameter is the average of D1, D2, and D3. <sup>2</sup> Maximum measured with go-ring gauge. <sup>3</sup> Carbon Steel only.

## STANDARD LENGTHS

Length	Nominal Diameter															
	1.5	2	2.5	3	3.5	4	4.5*	5	6	8	10	12	14*	16	18*	20
4																
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95																
100																

Nominal Pin Length	Length Tolerance
Length Tolerance — ISO 8752	
4 to 10 mm	± 0.25 mm
12 to 50 mm	± 0.50 mm
55 to 100 mm	± 0.75 mm
Length Tolerance — DIN 1481 (Ref.)	
4 to 10 mm	+ 0.5 mm
12 to 50 mm	+ 1.0 mm
55 to 100 mm	+ 1.5 mm

\* Not generally a stocked diameter.

# SPIROL®

## Applications

SPIROL® slotted spring pins are used in many industries.

- Agriculture
- Automotive
- Construction
- Appliances
- Electronics
- Furniture
- Mining
- Plastics
- Railways
- Aerospace

Typical applications use spring pins as...

- Fasteners to secure handles and gears to shafts
- Retaining pins
- Axle shafts
- Stop pins
- Hinge and pivot applications
- Cross bars
- Tube reinforcing pins
- Locator pins



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