



SS Stainless Steel

Metric table

Dimensions in: millimeters - inches

d ₁ -0.04 -0.08	l ₁ (5 mm stroke)		d ₂	d ₃	d ₄	l ₂	l ₃	Location bore H11	Clamping force max. ≈
	max.	min.							
6 0.24	5 0.20	0	7 0.28	38 1.50	17.5 0.69	5 0.20	30 1.18	6 0.24	16 N 3.60 lbf
6 0.24	10 0.39	5 0.20	7 0.28	38 1.50	17.5 0.69	5 0.20	30 1.18	6 0.24	18 N 4.05 lbf
8 0.31	5 0.20	0	9.5 0.37	38 1.50	17.5 0.69	6.5 0.26	30 1.18	8 0.31	16 N 3.60 lbf
8 0.31	10 0.39	5 0.20	9.5 0.37	38 1.50	17.5 0.69	6.5 0.26	30 1.18	8 0.31	18 N 4.05 lbf
10 0.39	5 0.20	0	12 0.47	47 1.85	23 0.91	8.7 0.34	36 1.42	10 0.39	21 N 4.72 lbf
10 0.39	10 0.39	5 0.20	12 0.47	47 1.85	23 0.91	8.7 0.34	36 1.42	10 0.39	23 N 5.17 lbf
12 0.47	5 0.20	0	14 0.55	47 1.85	23 0.91	9.4 0.37	36 1.42	12 0.47	21 N 4.72 lbf
12 0.47	10 0.39	5 0.20	14 0.55	47 1.85	23 0.91	9.4 0.37	36 1.42	12 0.47	23 N 5.17 lbf

Specification

- Shank pin
Stainless steel AISI 303
- Handle
Plastic (Polyamide PA)
- Black-gray
- Push button: red
- Temperature resistant up to 176 °F (80 °C)
- Balls
Stainless steel AISI 420C
- Spring
Stainless steel AISI 631
- ISO Fundamental Tolerances → page 2129
- Plastic Characteristics → page 2135
- Stainless Steel Characteristics → page 2143
- RoHS compliant

Accessory

- Ball chains GN 111 / GN 111.5 → page 1236
- Retaining cables GN 111.2 → page 1238
- Spiral retaining cables GN 111.4 → page 1237

Information

GN 113.1 ball lock pins are used for rapid clamping and simultaneously play-free connecting of thin components in particular where frequent clamping and releasing is required. A typical application is the alignment and clamping of sheet metal during a welding process.

By depressing the spring-loaded push button, the pin advances by the length l₂ and at the same time frees the two balls. When the push button is released the balls are locked in their forward position and at the same time use the clamping force to clamp the components together.

see also...

- List of Lock Pin Types → page 1058

<p>How to order</p> <p>GN 113.1-6-5</p>	1	Pin diameter d ₁
	2	Length l ₁ min.

3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
3.10