



SS Stainless Steel

Metric table

1 2

Dimensions in: millimeters - inches

d ₁ -0.04 -0.08	l ₁ +0.6																d ₂	d ₃	d ₄	l ₂ ±1	l ₃ -0.2	Location bore H11
5	10	15	20	25	30	35	40	45	50	60	70	80	-	-	-	-	5.5	23	10.2	6.2	20.2	5
0.20	0.39	0.59	0.79	0.98	1.18	1.38	1.57	1.77	1.97	2.36	2.76	3.15	-	-	-	-	0.22	0.91	0.40	0.24	0.80	0.20
6	10	15	20	25	30	35	40	45	50	60	70	80	-	-	-	-	7	23	10.2	7.2	20.2	6
0.24	0.39	0.59	0.79	0.98	1.18	1.38	1.57	1.77	1.97	2.36	2.76	3.15	-	-	-	-	0.28	0.91	0.40	0.28	0.80	0.24
8	10	15	20	25	30	35	40	45	50	60	70	80	90	100	-	-	9.5	27	13.2	8.4	26.8	8
0.31	0.39	0.59	0.79	0.98	1.18	1.38	1.57	1.77	1.97	2.36	2.76	3.15	3.54	3.94	-	-	0.37	1.06	0.52	0.33	1.06	0.31
10	15	20	25	30	35	40	45	50	60	70	80	90	100	110	120	-	12	27	13.2	9.9	26.8	10
0.39	0.59	0.79	0.98	1.18	1.38	1.57	1.77	1.97	2.36	2.76	3.15	3.54	3.94	4.33	4.72	-	0.47	1.06	0.52	0.39	1.06	0.39
12	20	25	30	35	40	45	50	60	70	80	90	100	110	120	-	-	14.5	31	16.4	10.9	32.7	12
0.47	0.79	0.98	1.18	1.38	1.57	1.77	1.97	2.36	2.76	3.15	3.54	3.94	4.33	4.72	-	-	0.57	1.22	0.65	0.43	1.29	0.47
16	30	35	40	45	50	60	70	80	90	100	110	120	130	140	150	-	19	38	23.4	14.5	42.6	16
0.63	1.18	1.38	1.57	1.77	1.97	2.36	2.76	3.15	3.54	3.94	4.33	4.72	5.12	5.51	5.91	-	0.75	1.50	0.92	0.57	1.68	0.63
20	50	60	70	80	90	100	110	120	130	140	150	-	-	-	-	-	24.8	38	23.4	17.4	42.6	20
0.79	1.97	2.36	2.76	3.15	3.54	3.94	4.33	4.72	5.12	5.51	5.91	-	-	-	-	-	0.98	1.50	0.92	0.69	1.68	0.79
25	50	60	70	80	90	100	110	120	130	140	150	-	-	-	-	-	30.8	50	30.4	22.3	54.3	25
0.98	1.97	2.36	2.76	3.15	3.54	3.94	4.33	4.72	5.12	5.51	5.91	-	-	-	-	-	1.21	1.97	1.20	0.88	2.14	0.98

Specification

- **GN 113.9**
Shank pin
Stainless steel AISI 303
- **GN 113.10**
Shank pin
Stainless steel AISI 630
Precipitation-hardened
- Knob
Stainless steel AISI 316L
- Balls
Stainless steel AISI 420C
- Spring
Stainless steel
- *Load Rating Information* → page 2104
- *ISO Fundamental Tolerances* → page 2129
- *Stainless Steel Characteristics* → page 2143
- RoHS compliant

Information

GN 113.9 and GN 113.10 ball lock pins are used for rapid connecting and securing of components or workpieces. A typical application is locating pins that have to regularly be moved in and out of position.

By depressing the spring loaded push button, the two balls are freed, and by releasing the push button the balls are locked.

GN 113.10 ball lock pins have a high load capacity, due to the pin being made of heavy duty, hardened and highly abrasion-resistant stainless steel.

The technical section contains the load ratings for the double shear strength (breaking strength).

see also...

- *List of Lock Pin Types* → page 1058

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

How to order (Stainless steel shank AISI 303) 1 2 GN 113.9-6-20	1 Pin diameter d ₁
	2 Length l ₁
How to order (Stainless steel shank AISI 630) 1 2 GN 113.10-20-100	1 Pin diameter d ₁
	2 Length l ₁