

## Ball lock pins



- **Plunger**  
AISI 630 stainless steel, precipitation hardened, hard coated.
- **T-Handle**  
Polyamide based (PA) technopolymer, plastic, black-grey / red.
- **Balls**  
AISI 420 C stainless steel.
- **Spring**  
AISI 631 stainless steel.
- **Maximum working temperature**  
From -30 °C to +80 °C.

### Accessories on request

- Ball chains GN 111 (see page 360).
- Retaining cables GN 111.2 (see page 362).
- Spiral retaining cables GN 111.4 (see page 364).

### Features and applications

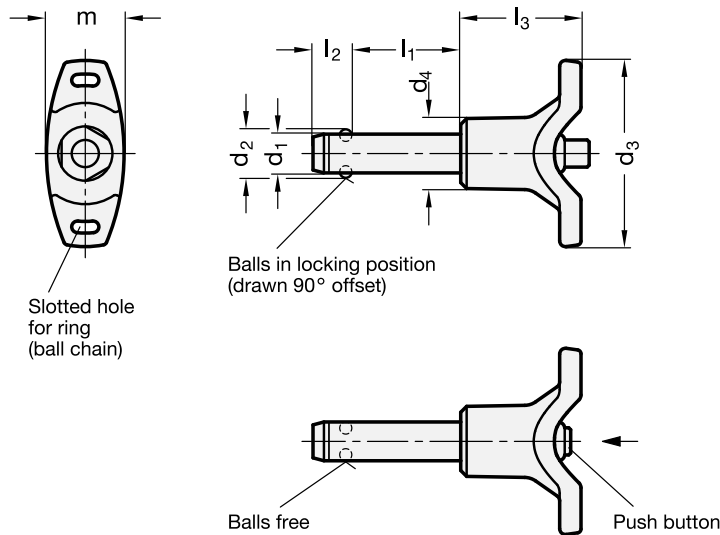
Ball lock pins GN 113.8 are used for quick fixing, connecting and locking of various parts and workpieces. A typical application is locating pins which have often to be removed and installed again.

By pressing the spring loaded push button both balls are unlocked and by releasing it, the balls are locked again.

Ball lock pins GN 113.8 have an extreme load capacity, the pin is made of heavy duty, hardened and highly abrasion-resistant stainless steel.

The load values given in the above table at shar stress are theoretically obtained and indicative only. They are non-binding recommended values and rule out of any liability. They constitute no general warranty of quality and condition.

The user must determine from case to case whether a product ist suitable for the intended use.



Standard Elements	Main dimensions								Mounting bore H11	Double sided shearing force in kN	△△ g
	Description	d1 <sup>-0.04 -0.08</sup>	l1 <sup>+0.6</sup>	d2	d3	d4	l2 <sup>±0.2</sup>	l3			
GN 113.8-5-10	5	10	5.5	40	13.5	6	25	15.5	5	24	15
GN 113.8-5-15	5	15	5.5	40	13.5	6	25	15.5	5	24	16
GN 113.8-5-20	5	20	5.5	40	13.5	6	25	15.5	5	24	16
GN 113.8-5-25	5	25	5.5	40	13.5	6	25	15.5	5	24	17
GN 113.8-5-30	5	30	5.5	40	13.5	6	25	15.5	5	24	18

Standard Elements	Main dimensions								Mounting bore H11	Double sided shearing force in kN	$\triangle$
Description	d1 <sup>-0.04 -0.08</sup>	l1 <sup>+0.6</sup>	d2	d3	d4	l2 $\pm 0.2$	l3	m			g
GN 113.8-6-10	6	10	7	40	13.5	7.1	25	15.5	6	35	15
GN 113.8-6-15	6	15	7	40	13.5	7.1	25	15.5	6	35	15
GN 113.8-6-20	6	20	7	40	13.5	7.1	25	15.5	6	35	20
GN 113.8-6-25	6	25	7	40	13.5	7.1	25	15.5	6	21	20
GN 113.8-6-30	6	30	7	40	13.5	7.1	25	15.5	6	21	20
GN 113.8-6-35	6	35	7	40	13.5	7.1	25	15.5	6	21	22
GN 113.8-6-40	6	40	7	40	13.5	7.1	25	15.5	6	35	25
GN 113.8-6-45	6	45	7	40	13.5	7.1	25	15.5	6	35	25
GN 113.8-6-50	6	50	7	40	13.5	7.1	25	15.5	6	35	28
GN 113.8-8-20	8	20	9.5	48	18	8.2	31	20.5	8	63	30
GN 113.8-8-25	8	25	9.5	48	18	8.2	31	20.5	8	63	35
GN 113.8-8-30	8	30	9.5	48	18	8.2	31	20.5	8	63	40
GN 113.8-8-35	8	35	9.5	48	18	8.2	31	20.5	8	63	40
GN 113.8-8-40	8	40	9.5	48	18	8.2	31	20.5	8	63	50
GN 113.8-8-45	8	45	9.5	48	18	8.2	31	20.5	8	63	70
GN 113.8-8-50	8	50	9.5	48	18	8.2	31	20.5	8	63	100
GN 113.8-10-20	10	20	12	48	18	9.6	31	20.5	10	100	40
GN 113.8-10-25	10	25	12	48	18	9.6	31	20.5	10	100	40
GN 113.8-10-30	10	30	12	48	18	9.6	31	20.5	10	100	50
GN 113.8-10-35	10	35	12	48	18	9.6	31	20.5	10	100	60
GN 113.8-10-40	10	40	12	48	18	9.6	31	20.5	10	100	60
GN 113.8-10-45	10	45	12	48	18	9.6	31	20.5	10	100	60
GN 113.8-10-50	10	50	12	48	18	9.6	31	20.5	10	100	70
GN 113.8-10-60	10	60	12	48	18	9.6	31	20.5	10	100	80
GN 113.8-12-25	12	25	14.5	58	24	10.6	36.5	27.5	12	144	94
GN 113.8-12-30	12	30	14.5	58	24	10.6	36.5	27.5	12	144	100
GN 113.8-12-35	12	35	14.5	58	24	10.6	36.5	27.5	12	144	104
GN 113.8-12-40	12	40	14.5	58	24	10.6	36.5	27.5	12	144	109
GN 113.8-12-45	12	45	14.5	58	24	10.6	36.5	27.5	12	144	110
GN 113.8-12-50	12	50	14.5	58	24	10.6	36.5	27.5	12	144	120
GN 113.8-12-60	12	60	14.5	58	24	10.6	36.5	27.5	12	144	120
GN 113.8-12-70	12	70	14.5	58	24	10.6	36.5	27.5	12	144	130
GN 113.8-12-80	12	80	14.5	58	24	10.6	36.5	27.5	12	144	130
GN 113.8-16-30	16	30	19	58	24	14	36.5	27.5	16	257	140
GN 113.8-16-35	16	35	19	58	24	14	36.5	27.5	16	257	160
GN 113.8-16-40	16	40	19	58	24	14	36.5	27.5	16	257	160
GN 113.6-16-45	16	45	19	58	24	14	36.5	27.5	16	257	160
GN 113.8-16-50	16	50	58	24	25	14	36.5	27.5	16	257	180
GN 113.8-16-60	16	60	19	58	24	14	36.5	27.5	16	257	180
GN 113.8-16-70	16	70	19	58	24	14	36.5	27.5	16	257	200
GN 113.8-16-80	16	80	19	58	24	14	36.5	27.5	16	257	200