

PIN AND PUSH BUTTON

AlSi 630 hardened stainless steel.

BALLS

AlSi 420C stainless steel.

SPRING

AlSi 631 stainless steel.

HANDLE

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, provided with holes for security ring.

WORKING TEMPERATURE

From -30°C to +80°C.

FEATURES AND APPLICATIONS

GN 113.8 ball lock pins are generally used for quick mounting between components or parts to be machined, in particular for elements which need to be removed and reset continuously.

ACCESSORIES ON REQUEST

To optimise the use of these ball lock pins, have been designed:

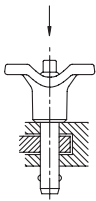
- ball chains GN 111 (see page 611);
- retaining cables GN 111.2 (see page 612);
- spiral retaining cables GN 111.4 (see page 613).

INSTRUCTIONS OF USE

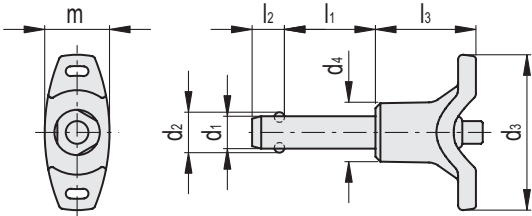
By pressing the push button the two balls are freed and the pin can be pulled-out or inserted.



Application example



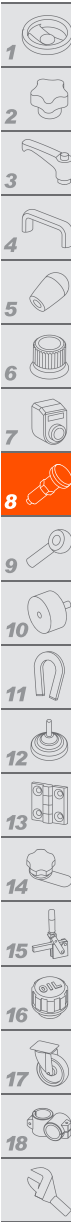
Conversion Table	
1 mm = 0.039 inch	
d1	
mm	inch
5	0.20
6	0.24
8	0.31
10	0.39
12	0.47
16	0.63

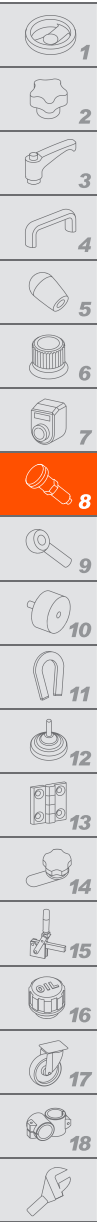


Code	Description	d1 -0.04 -0.08	d2	d3	d4	l1 ±0.6	l2 ±0.2	l3	m	Mounting hole H11	Double sided shearing force [KN]	
GN.11515	GN 113.8-5-10	5	5.5	40	13.5	10	6	25	15.5	5	24	15
GN.11516	GN 113.8-5-15	5	5.5	40	13.5	15	6	25	15.5	5	24	16
GN.11517	GN 113.8-5-20	5	5.5	40	13.5	20	6	25	15.5	5	24	16
GN.11518	GN 113.8-5-25	5	5.5	40	13.5	25	6	25	15.5	5	24	17
GN.11519	GN 113.8-5-30	5	5.5	40	13.5	30	6	25	15.5	5	24	18
GN.78001	GN 113.8-5-35	5	5.5	40	13.5	35	6	25	15.5	5	24	18
GN.78002	GN 113.8-5-40	5	5.5	40	13.5	40	6	25	15.5	5	24	18
GN.78003	GN 113.8-5-45	5	5.5	40	13.5	45	6	25	15.5	5	24	18
GN.78004	GN 113.8-5-50	5	5.5	40	13.5	50	6	25	15.5	5	24	18
GN.78005	GN 113.8-5-60	5	5.5	40	13.5	60	6	25	15.5	5	24	18
GN.78006	GN 113.8-5-70	5	5.5	40	13.5	70	6	25	15.5	5	24	18
GN.78007	GN 113.8-5-80	5	5.5	40	13.5	80	6	25	15.5	5	24	18
GN.11520	GN 113.8-6-10	6	7	40	13.5	10	7.1	25	15.5	6	35	15
GN.11521	GN 113.8-6-15	6	7	40	13.5	15	7.1	25	15.5	6	35	15
GN.11522	GN 113.8-6-20	6	7	40	13.5	20	7.1	25	15.5	6	35	20
GN.11523	GN 113.8-6-25	6	7	40	13.5	25	7.1	25	15.5	6	21	20
GN.11524	GN 113.8-6-30	6	7	40	13.5	30	7.1	25	15.5	6	21	20
GN.78011	GN 113.8-6-35	6	7	40	13.5	35	7.1	25	15.5	6	21	20
GN.11525	GN 113.8-6-40	6	7	40	13.5	40	7.1	25	15.5	6	35	25
GN.78012	GN 113.8-6-45	6	7	40	13.5	45	7.1	25	15.5	6	21	20
GN.78013	GN 113.8-6-50	6	7	40	13.5	50	7.1	25	15.5	6	21	20
GN.78014	GN 113.8-6-60	6	7	40	13.5	60	7.1	25	15.5	6	21	20
GN.78015	GN 113.8-6-70	6	7	40	13.5	70	7.1	25	15.5	6	21	20
GN.78016	GN 113.8-6-80	6	7	40	13.5	80	7.1	25	15.5	6	21	20

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12	0.47
16	0.63

												INOX	STAINLESS STEEL	METRIC
Code	Description	d1-0.04 -0.08	d2	d3	d4	l1 +0.6	l2 ±0.2	l3	m	Mounting hole H11	Double sided shearing force [KN]	⚖		
GN.78021	GN 113.8-8-10	8	9.5	48	18	10	8.2	31	20.5	8	63	30		
GN.78022	GN 113.8-8-15	8	9.5	48	18	15	8.2	31	20.5	8	63	30		
GN.11526	GN 113.8-8-20	8	9.5	48	18	20	8.2	31	20.5	8	63	30		
GN.11527	GN 113.8-8-25	8	9.5	48	18	25	8.2	31	20.5	8	63	35		
GN.11528	GN 113.8-8-30	8	9.5	48	18	30	8.2	31	20.5	8	63	40		
GN.78023	GN 113.8-8-35	8	9.5	48	18	35	8.2	31	20.5	8	63	40		
GN.11529	GN 113.8-8-40	8	9.5	48	18	40	8.2	31	20.5	8	63	50		
GN.78024	GN 113.8-8-45	8	9.5	48	18	45	8.2	31	20.5	8	63	40		
GN.11530	GN 113.8-8-50	8	9.5	48	18	50	8.2	31	20.5	8	63	100		
GN.78025	GN 113.8-8-60	8	9.5	48	18	60	8.2	31	20.5	8	63	40		
GN.78026	GN 113.8-8-70	8	9.5	48	18	70	8.2	31	20.5	8	63	40		
GN.78027	GN 113.8-8-80	8	9.5	48	18	80	8.2	31	20.5	8	63	40		
GN.78028	GN 113.8-8-90	8	9.5	48	18	90	8.2	31	20.5	8	63	40		
GN.78029	GN 113.8-8-100	8	9.5	48	18	100	8.2	31	20.5	8	63	40		
GN.78031	GN 113.8-10-15	10	12	48	18	15	9.6	31	20.5	10	100	40		
GN.11531	GN 113.8-10-20	10	12	48	18	20	9.6	31	20.5	10	100	40		
GN.11532	GN 113.8-10-25	10	12	48	18	25	9.6	31	20.5	10	100	40		
GN.11533	GN 113.8-10-30	10	12	48	18	30	9.6	31	20.5	10	100	50		
GN.78032	GN 113.8-10-35	10	12	48	18	35	9.6	31	20.5	10	100	50		
GN.11534	GN 113.8-10-40	10	12	48	18	40	9.6	31	20.5	10	100	60		
GN.78033	GN 113.8-10-45	10	12	48	18	45	9.6	31	20.5	10	100	50		
GN.11535	GN 113.8-10-50	10	12	48	18	50	9.6	31	20.5	10	100	70		
GN.78034	GN 113.8-10-60	10	12	48	18	60	9.6	31	20.5	10	100	50		
GN.78035	GN 113.8-10-70	10	12	48	18	70	9.6	31	20.5	10	100	50		
GN.78036	GN 113.8-10-80	10	12	48	18	80	9.6	31	20.5	10	100	50		
GN.78037	GN 113.8-10-90	10	12	48	18	90	9.6	31	20.5	10	100	50		
GN.78038	GN 113.8-10-100	10	12	48	18	100	9.6	31	20.5	10	100	50		
GN.78039	GN 113.8-10-110	10	12	48	18	110	9.6	31	20.5	10	100	50		
GN.78040	GN 113.8-10-120	10	12	48	18	120	9.6	31	20.5	10	100	50		
GN.78051	GN 113.8-12-20	12	14.5	58	24	20	10.6	36.5	27.5	12	144	94		
GN.11536	GN 113.8-12-25	12	14.5	58	24	25	10.6	36.5	27.5	12	144	94		
GN.11537	GN 113.8-12-30	12	14.5	58	24	30	10.6	36.5	27.5	12	144	100		
GN.78052	GN 113.8-12-35	12	14.5	58	24	35	10.6	36.5	27.5	12	144	100		
GN.11538	GN 113.8-12-40	12	14.5	58	24	40	10.6	36.5	27.5	12	144	109		
GN.78053	GN 113.8-12-45	12	14.5	58	24	45	10.6	36.5	27.5	12	144	100		
GN.11539	GN 113.8-12-50	12	14.5	58	24	50	10.6	36.5	27.5	12	144	120		
GN.11540	GN 113.8-12-60	12	14.5	58	24	60	10.6	36.5	27.5	12	144	120		
GN.78054	GN 113.8-12-70	12	14.5	58	24	70	10.6	36.5	27.5	12	144	100		
GN.78055	GN 113.8-12-80	12	14.5	58	24	80	10.6	36.5	27.5	12	144	100		
GN.78056	GN 113.8-12-90	12	14.5	58	24	90	10.6	36.5	27.5	12	144	100		
GN.78057	GN 113.8-12-100	12	14.5	58	24	100	10.6	36.5	27.5	12	144	100		
GN.78058	GN 113.8-12-110	12	14.5	58	24	110	10.6	36.5	27.5	12	144	100		
GN.78059	GN 113.8-12-120	12	14.5	58	24	120	10.6	36.5	27.5	12	144	100		





Conversion Table	
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d1	
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5	0.20
6	0.24
8	0.31
10	0.39
12	0.47
16	0.63
20	0.78
25	0.98

INOX STAINLESS STEEL METRIC

Code	Description	d1 -0.04 -0.08	d2	d3	d4	l1 +0.6	l2 ±0.2	l3	m	Mounting hole H11	Double sided shearing force [KN]	△
GN.11541	GN 113.8-16-30	16	19	58	24	30	14	36.5	27.5	16	257	140
GN.78061	GN 113.8-16-35	16	19	58	24	35	14	36.5	27.5	16	257	140
GN.11542	GN 113.8-16-40	16	19	58	24	40	14	36.5	27.5	16	257	160
GN.78062	GN 113.8-16-45	16	19	58	24	45	14	36.5	27.5	16	257	140
GN.11543	GN 113.8-16-50	16	19	58	24	50	14	36.5	27.5	16	257	180
GN.11544	GN 113.8-16-60	16	19	58	24	60	14	36.5	27.5	16	257	180
GN.78063	GN 113.8-16-70	16	19	58	24	70	14	36.5	27.5	16	257	140
GN.78064	GN 113.8-16-80	16	19	58	24	80	14	36.5	27.5	16	257	140
GN.78065	GN 113.8-16-90	16	19	58	24	90	14	36.5	27.5	16	257	140
GN.78066	GN 113.8-16-100	16	19	58	24	100	14	36.5	27.5	16	257	140
GN.78067	GN 113.8-16-110	16	19	58	24	110	14	36.5	27.5	16	257	140
GN.78068	GN 113.8-16-120	16	19	58	24	120	14	36.5	27.5	16	257	140
GN.78069	GN 113.8-16-130	16	19	58	24	130	14	36.5	27.5	16	257	140
GN.78070	GN 113.8-16-140	16	19	58	24	140	14	36.5	27.5	16	257	140
GN.78071	GN 113.8-16-150	16	19	58	24	150	14	36.5	27.5	16	257	140
GN.78081	GN 113.8-20-50	20	25	80	34	50	20.5	46.5	38	16	257	140
GN.78082	GN 113.8-20-60	20	25	80	34	60	20.5	46.5	38	16	257	140
GN.78083	GN 113.8-20-70	20	25	80	34	70	20.5	46.5	38	16	257	140
GN.78084	GN 113.8-20-80	20	25	80	34	80	20.5	46.5	38	16	257	140
GN.78085	GN 113.8-20-90	20	25	80	34	90	20.5	46.5	38	16	257	140
GN.78086	GN 113.8-20-100	20	25	80	34	100	20.5	46.5	38	16	257	140
GN.78087	GN 113.8-20-110	20	25	80	34	110	20.5	46.5	38	16	257	140
GN.78088	GN 113.8-20-120	20	25	80	34	120	20.5	46.5	38	16	257	140
GN.78089	GN 113.8-20-130	20	25	80	34	130	20.5	46.5	38	16	257	140
GN.78090	GN 113.8-20-140	20	25	80	34	140	20.5	46.5	38	16	257	140
GN.78091	GN 113.8-20-150	20	25	80	34	150	20.5	46.5	38	16	257	140
GN.78101	GN 113.8-25-50	25	30.8	80	34	50	22	46.5	38	16	257	140
GN.78102	GN 113.8-25-60	25	30.8	80	34	60	22	46.5	38	16	257	140
GN.78103	GN 113.8-25-70	25	30.8	80	34	70	22	46.5	38	16	257	140
GN.78104	GN 113.8-25-80	25	30.8	80	34	80	22	46.5	38	16	257	140
GN.78105	GN 113.8-25-90	25	30.8	80	34	90	22	46.5	38	16	257	140
GN.78106	GN 113.8-25-100	25	30.8	80	34	100	22	46.5	38	16	257	140
GN.78107	GN 113.8-25-110	25	30.8	80	34	110	22	46.5	38	16	257	140
GN.78108	GN 113.8-25-120	25	30.8	80	34	120	22	46.5	38	16	257	140
GN.78109	GN 113.8-25-130	25	30.8	80	34	130	22	46.5	38	16	257	140
GN.78110	GN 113.8-25-140	25	30.8	80	34	140	22	46.5	38	16	257	140
GN.78111	GN 113.8-25-150	25	30.8	80	34	150	22	46.5	38	16	257	140