

## Spring Plungers

**Stainless Steel / Brass / Plastic, Press-On Type, with Ball**

### SPECIFICATION

#### Types

- Type **NI**: Stainless steel, standard spring load
- Type **NIL**: Stainless steel, light spring load
- Type **NIS**: Stainless steel, high spring load
- Type **MS**: Housing brass, ball stainless steel, standard spring load
- Type **KU**: Housing plastic, ball stainless steel, standard spring load
- Type **KD**: Housing plastic, ball plastic, standard spring load

Types NI / NIL / NIS

Housing

Stainless steel AISI 305

Sheet-metal

Ball

Stainless steel AISI 420C

Hardened

Identification of type NIL:

Housing with 1 longitudinal marking

Identification of type NIS:

Housing with 2 longitudinal markings

Type MS

Housing brass, turned

Ball stainless steel

AISI 420C, hardened

Type KU

Housing plastic (Polyacetal POM)

Temperature resistant up to 50 °C

Ball stainless steel

AISI 420C, hardened

Type KD

Housing plastic (Polyacetal POM)

Ball Plastic (Polyacetal POM)

Temperature resistant up to 50 °C

Pressure spring

Stainless steel AISI 631



### INFORMATION

Spring plungers GN 614 are used as detents as well as for push-on and push-off applications and ejectors.

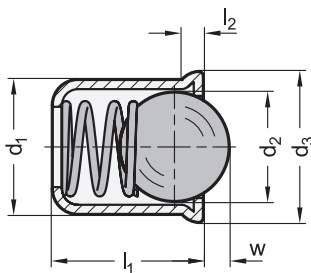
A tolerance of H7 for the location hole of  $d_1$  is recommended.

Due to different production methods, the dimensions  $l_2$  and  $l_3$  are different.

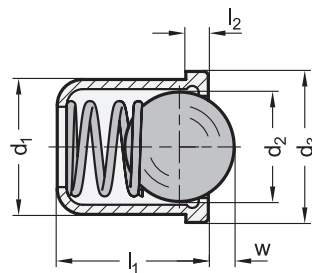
### TECHNICAL INFORMATION

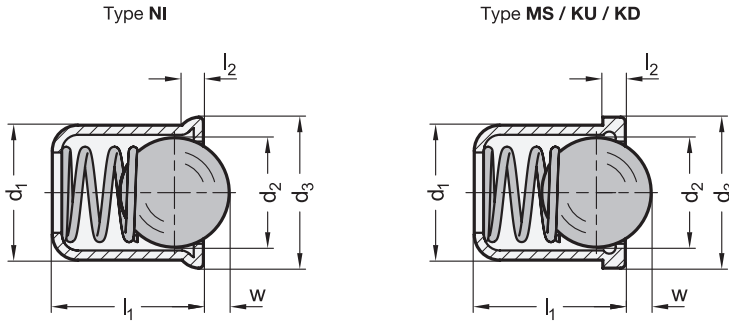
- ISO Fundamental Tolerances (see page A26)
- Stainless Steel characteristics (see page A21)
- Plastic characteristics (see page A2)

Type NI



Type MS / KU / KD





GN 614-NI **STAINLESS STEEL**

Description	d1 +0.1	d2	d3	l1 ≈	l2 ≈	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖️
GN 614-3-NI	3	2.4	3.5	4	0.6	0.7	1.8	3.5	1
GN 614-4-NI	4	3	4.6	5	0.9	1	2.5	6	2
GN 614-5-NI	5	4	5.6	6	0.9	1.4	3	6.5	3
GN 614-6-NI	6	5	6.5	7	1	1.8	5.5	11.5	4
GN 614-8-NI	8	6.5	8.5	9	1.1	2.4	7	12.5	5
GN 614-10-NI	10	8.5	11	13	1.5	3.3	8.5	18.5	6
GN 614-12-NI	12	10	13	16	2.3	4	12	26.5	7

GN 614-MS

Description	d1 +0.1	d2	d3	l1 ≈	l2 ±0.1	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖️
GN 614-3-MS	3	2.4	3.6	4	0.6	0.6	1.8	3.5	1
GN 614-4-MS	4	3	4.6	5	1	0.8	2.5	6	2
GN 614-5-MS	5	4	5.6	6	1	1	3	6.5	3
GN 614-6-MS	6	5	6.5	7	1	1.6	5.5	11.5	4
GN 614-8-MS	8	6.5	8.5	9	1	1.9	7	12.5	5

GN 614-NIL **STAINLESS STEEL**

Description	d1 +0.1	d2	d3	l1 ≈	l2 ≈	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖️
GN 614-4-NIL	4	3	4.6	5	0.9	1	0.4	1	1
GN 614-5-NIL	5	4	5.6	6	0.9	1.4	0.5	4.7	2
GN 614-6-NIL	6	5	6.5	7	1	1.8	2.3	6.5	3
GN 614-8-NIL	8	6.5	8.5	9	1.1	2.4	4	9	4
GN 614-10-NIL	10	8.5	11	13	1.5	3.3	3.9	10	5
GN 614-12-NIL	12	10	13	16	2.3	4	6.2	14.6	6

GN 614-KU

Description	d1 +0.1	d2	d3	l1 ≈	l2 ±0.1	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖️
GN 614-3-KU	3	2	3.6	4	0.6	0.55	1.7	3.5	1
GN 614-4-KU	4	3	4.6	5	1	0.8	3	6.5	2
GN 614-5-KU	5	4	5.6	6	1	1	6	9.4	3
GN 614-6-KU	6	5	6.5	7	1	1.6	6.2	12.6	4
GN 614-8-KU	8	6.5	8.5	9	1	1.9	10	20.4	5
GN 614-10-KU	10	8	11	13.5	1.5	2.4	11.9	22.3	6
GN 614-12-KU	12	10	13	16	1.5	3.3	14	25	7

GN 614-NIS **STAINLESS STEEL**

Description	d1 +0.1	d2	d3	l1 ≈	l2 ≈	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖️
GN 614-4-NIS	4	3	4.6	5	0.9	1	5	10.4	1
GN 614-5-NIS	5	4	5.6	6	0.9	1.4	6	12	2
GN 614-6-NIS	6	5	6.5	7	1	1.8	7.3	19	3
GN 614-8-NIS	8	6.5	8.5	9	1.1	2.4	11	25	4
GN 614-10-NIS	10	8.5	11	13	1.5	3.3	17	37	5
GN 614-12-NIS	12	10	13	16	2.3	4	30	54	6

GN 614-KD

Description	d1 +0.1	d2	d3	l1 ≈	l2 ±0.1	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖️
GN 614-4-KD	4	3	4.6	5	1	0.8	3	6.5	1
GN 614-5-KD	5	4	5.6	6	1	1	6	9.4	2
GN 614-6-KD	6	5	6.5	7	1	1.6	6.2	12.6	3
GN 614-8-KD	8	6.5	8.5	9	1	1.9	10	20.4	4
GN 614-10-KD	10	8	11	13.5	1.5	2.4	11.9	22.3	5
GN 614-12-KD	12	10	13	16	1.5	3.3	14	25	6

