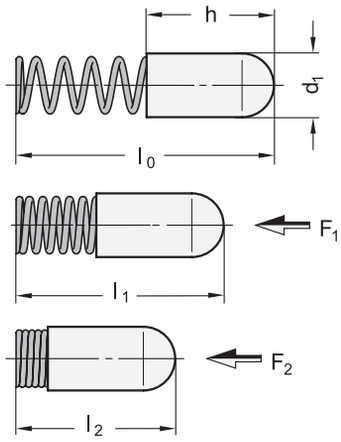
GN 610 | Spring Loaded Shells

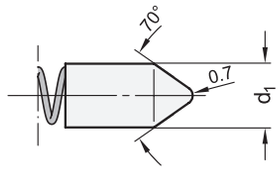
Steel / Stainless Steel

JW WINCO® A Ganter Company

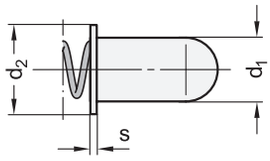
Type **H / HN**



Type **K**



Type **HBN**



Metric

SS Stainless Steel

3	Type
H	Semi-spherical, steel
HN	Semi-spherical, stainless steel
HBN	Semi-spherical with collar, stainless steel
K	Pointed nose, steel

Specification

- Housing
  - Type H / K
    Steel, nickel plated
  - Type HN / HBN
    Stainless steel AISI 305
- Spring
  Stainless steel AISI 301
- RoHS compliant

Information

Spring loaded shells GN 610 are used for indexing and locking. A special feature is their large spring travel with a compact size.

A simple hole is sufficient for installation. Pre-tensioning and securing of the spring loaded shells must be ensured by the opposing stop piece.

Type HBN has a collar to prevent the spring-loaded shell from springing out the front. A simple stepped hole is sufficient for installation. The part is secured from the back side, such as with a plate or a threaded stud.

see also...
- *Short Press-Fit Ball Plungers GN 614 (Steel / Stainless Steel) → page XYZ*
- *Press-Fit Ball Plungers GN 614.2 (Double Ended) → page QVX*
- *Ball Plungers GN 614.3 (Stainless Steel) → page QVX*
- *Press-Fit Spring Plungers GN 614.4 (Stainless Steel) → page QVX*
- *Short Press-Fit Ball Plungers GN 614.5 → QVX*

How to order

1 2 3

GN 610-3.4-15-H

1	**Diameter d**
2	**Length l_0**
3	**Type**

Metric table

Dimensions in: millimeters - *inches*

Type **H**						
d_1 ±0.05	l_0	h	l_1	l_2	F_1 Spring load ≈	F_2 Spring load ≈
2.2 *0.09*	16 *0.63*	7.8 *0.31*	12 *0.47*	10.5 *0.41*	2.2 N *0.49 lbf*	3 N *0.67 lbf*
2.6 *0.10*	8 *0.31*	3.8 *0.15*	6.5 *0.26*	5.2 *0.20*	1.1 N *0.25 lbf*	2 N *0.45 lbf*
3 *0.12*	12 *0.47*	6 *0.24*	9 *0.35*	8.7 *0.34*	6.2 N *1.39 lbf*	6.8 N *1.53 lbf*
3 *0.12*	16 *0.63*	8.5 *0.33*	13 *0.51*	10.7 *0.42*	4.8 N *1.08 lbf*	8.4 N *1.89 lbf*
3.4 *0.13*	12 *0.47*	6 *0.24*	9 *0.35*	7.8 *0.31*	5 N *1.12 lbf*	7 N *1.57 lbf*
3.4 *0.13*	15 *0.59*	7.3 *0.29*	12 *0.47*	8.2 *0.32*	5.9 N *1.33 lbf*	13.3 N *2.99 lbf*
4 *0.16*	14 *0.55*	8 *0.31*	12 *0.47*	9 *0.35*	5 N *1.12 lbf*	12.3 N *2.77 lbf*
5 *0.20*	16 *0.63*	8 *0.31*	13 *0.51*	10.4 *0.41*	8 N *1.80 lbf*	15 N *3.37 lbf*

Type **HN**						
d_1 ±0.05	l_0	h	l_1	l_2	F_1 Spring load ≈	F_2 Spring load ≈
3 *0.12*	16 *0.63*	8 *0.31*	13 *0.51*	10.6 *0.42*	4.8 N *1.08 lbf*	8.6 N *1.93 lbf*
3.6 *0.14*	18 *0.71*	9 *0.35*	15 *0.59*	11.5 *0.45*	6.7 N *1.51 lbf*	14.5 N *3.26 lbf*
4 *0.16*	16 *0.63*	7.5 *0.30*	13 *0.51*	11.4 *0.45*	8 N *1.80 lbf*	12.3 N *2.77 lbf*

Type **HBN**								
d_1 ±0.05	l_0	d_2	h	l_1	l_2	s	F_1 Spring load ≈	F_2 Spring load ≈
3 *0.12*	13 *0.51*	4.1 *0.16*	7 *0.28*	10 *0.39*	8.9 *0.35*	0.1 *0.004*	5.3 N *1.19 lbf*	7.2 N *1.62 lbf*

Type **K**						
d_1 ±0.05	l_0	h	l_1	l_2	F_1 Spring load ≈	F_2 Spring load ≈
2.2 *0.09*	16 *0.63*	7.8 *0.31*	12 *0.47*	10.5 *0.41*	2.2 N *0.49 lbf*	3 N *0.67 lbf*
3 *0.12*	11 *0.43*	5 *0.20*	9 *0.35*	6.7 *0.26*	1.6 N *0.36 lbf*	3.4 N *0.76 lbf*
3 *0.12*	16 *0.63*	8.5 *0.33*	13 *0.51*	10.7 *0.42*	4.8 N *1.08 lbf*	8.4 N *1.89 lbf*

Application examples