

|            |   |
|------------|---|
| <b>SS</b>  | Stainless Steel                             |
| <b>3</b>   | <b>Type</b>                                 |
| <b>H</b>   | Semi-spherical, steel                       |
| <b>HN</b>  | Semi-spherical, stainless steel             |
| <b>HBN</b> | Semi-spherical with collar, stainless steel |
| <b>K</b>   | 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 (with Ball) → page XYZ
- Ball Plungers GN 614.3 (with Ball) → page XYZ
- Press-Fit Spring Plungers GN 614.4 (with Nose Pin) → page YZ

|                       |                                |
|-----------------------|--------------------------------|
| How to order          | <b>1</b> Diameter d            |
| <b>GN610-3.4-15-H</b> | <b>2</b> Length l <sub>0</sub> |
|                       | <b>3</b> Type                  |

**Metric table**

Dimensions in: millimeters - inches

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

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

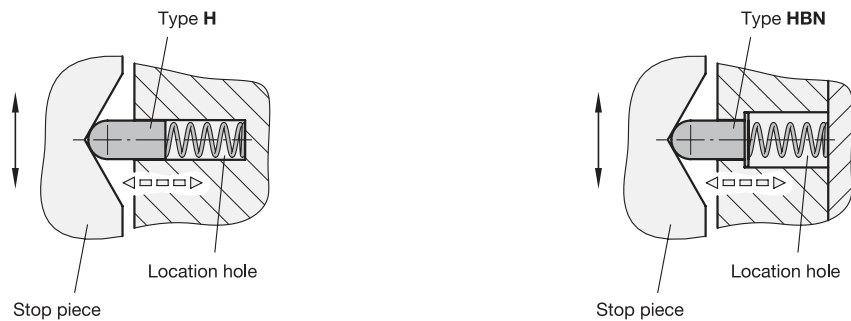
  

| Type HBN       |            |             |           |            |             |              |                             |                             |  |
|----------------|------------|-------------|-----------|------------|-------------|--------------|-----------------------------|-----------------------------|--|
| $d_1 \pm 0.05$ | $l_0$      | $d_2$       | $h$       | $l_1$      | $l_2$       | $s$          | $F_1$ Spring load $\approx$ | $F_2$ Spring load $\approx$ |  |
| 3<br>0.12      | 13<br>0.51 | 4.1<br>0.16 | 7<br>0.28 | 10<br>0.39 | 8.9<br>0.35 | 0.1<br>0.004 | 5.3 N<br>1.19 lbf           | 7.2 N<br>1.62 lbf           |  |

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

**Application examples**



3.1  
3.2  
3.3  
3.4  
3.5  
3.6  
3.7  
3.8  
3.9  
3.10