



## TYPES

- Type **A1**: Cylinder, horizontal
- Type **A2**: Cylinder, vertical
- Type **B1**: Wedge, top
- Type **B2**: Wedge, down
- Type **B3**: Wedge, right
- Type **B4**: Wedge, left

## IDENTIFICATION NO.

- **1**: standard spring load
- **2**: high spring load

## Body

Die-cast zinc alloy **ZD**  
coated in epoxy resin  
black, RAL 9005, matte finish

## Thrust pin

Plastic, smooth **KG**  
Plastic POM, black

Stainless Steel, smooth **NG**  
metal injection molded AISI 630

Stainless Steel, ribbed **NR**  
metal injection molded AISI 630

## Spring

Stainless Steel AISI 301

## Screw

- Steel, zinc nickel coated (Version KG)
- Stainless Steel, A2 (Version NG / NR)

## FEATURES AND APPLICATIONS

Side thrust pins GN 415 have a compact design and offer maximum flexibility for tensioning and holding parts. A variety of thrust pin designs as well as two different spring forces are available.

Depending on the installation situation, the side thrust pins offer a pull-down effect operating within height h2. They are fastened by means of holes or slots.

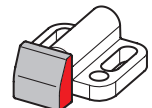
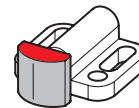
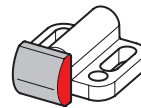
The side thrust pins are installed fully assembled. If necessary, the installation position of the thrust pin slide can be rotated by 4x90° according to the sketch. When installing version KG, the shaped thread in the plastic slider should be reused and the tightening torque limited.



GN 415-A1

GN 415-A2

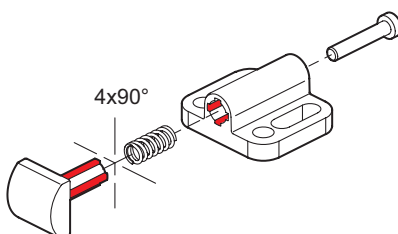
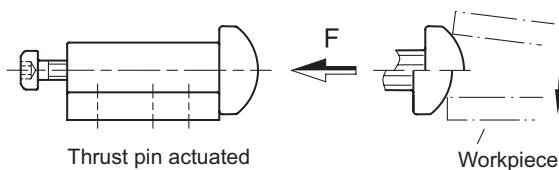
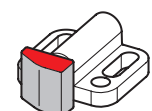
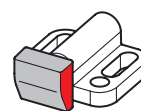
GN 415-B1



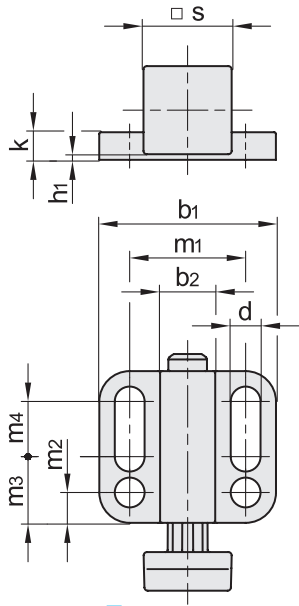
GN 415-B2

GN 415-B3

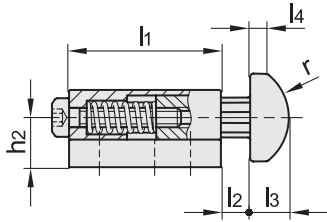
GN 415-B4



| Conversion Table  |      |
|-------------------|------|
| 1 mm = 0.039 inch |      |
| b1                |      |
| mm                | inch |
| 22                | 0.87 |
| 32                | 1.26 |
| 39                | 1.54 |



GN 415-A1  
GN 415-A2



GN 415-A1

INOX STAINLESS STEEL METRIC

| Code     | Description          | d   | b1 | b2   | $\frac{h1}{+0.5}$ | h2 | k | l1   | l2  | l3  | l4  | r     | s  | m1 | m2  | m3 | m4   | [N]* | [N]# | $\Delta$ |
|----------|----------------------|-----|----|------|-------------------|----|---|------|-----|-----|-----|-------|----|----|-----|----|------|------|------|----------|
| GN.19201 | GN 415-ZD-22-A1-KG-1 | 3.3 | 22 | 7    | 1                 | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 8    | 11   | 12       |
| GN.19202 | GN 415-ZD-22-A1-KG-2 | 3.3 | 22 | 7    | 1                 | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 11   | 20   | 12       |
| GN.19203 | GN 415-ZD-22-A1-NG-1 | 3.3 | 22 | 7    | 1                 | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 8    | 11   | 13       |
| GN.19204 | GN 415-ZD-22-A1-NG-2 | 3.3 | 22 | 7    | 1                 | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 11   | 20   | 13       |
| GN.19205 | GN 415-ZD-22-A1-NR-1 | 3.3 | 22 | 7    | 1                 | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 8    | 11   | 14       |
| GN.19206 | GN 415-ZD-22-A1-NR-2 | 3.3 | 22 | 7    | 1                 | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 11   | 20   | 14       |
| GN.19281 | GN 415-ZD-32-A1-KG-1 | 5.4 | 32 | 10   | 1                 | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 8    | 19   | 32       |
| GN.19282 | GN 415-ZD-32-A1-KG-2 | 5.4 | 32 | 10   | 1                 | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 19   | 45   | 32       |
| GN.19283 | GN 415-ZD-32-A1-NG-1 | 5.4 | 32 | 10   | 1                 | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 8    | 19   | 39       |
| GN.19284 | GN 415-ZD-32-A1-NG-2 | 5.4 | 32 | 10   | 1                 | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 19   | 45   | 39       |
| GN.19285 | GN 415-ZD-32-A1-NR-1 | 5.4 | 32 | 10   | 1                 | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 8    | 19   | 40       |
| GN.19286 | GN 415-ZD-32-A1-NR-2 | 5.4 | 32 | 10   | 1                 | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 19   | 45   | 40       |
| GN.19381 | GN 415-ZD-39-A1-KG-1 | 6.5 | 39 | 14.5 | 1                 | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 17   | 33   | 69       |
| GN.19382 | GN 415-ZD-39-A1-KG-2 | 6.5 | 39 | 14.5 | 1                 | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 27   | 75   | 69       |
| GN.19383 | GN 415-ZD-39-A1-NG-1 | 6.5 | 39 | 14.5 | 1                 | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 17   | 33   | 93       |
| GN.19384 | GN 415-ZD-39-A1-NG-2 | 6.5 | 39 | 14.5 | 1                 | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 27   | 75   | 93       |
| GN.19385 | GN 415-ZD-39-A1-NR-1 | 6.5 | 39 | 14.5 | 1                 | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 17   | 33   | 94       |
| GN.19386 | GN 415-ZD-39-A1-NR-2 | 6.5 | 39 | 14.5 | 1                 | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 27   | 75   | 94       |

GN 415-A2

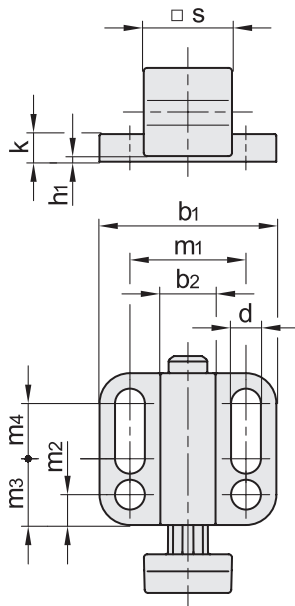
INOX STAINLESS STEEL METRIC

| Code     | Description          | d   | b1 | b2   | $\frac{h1}{+0.5}$ | h2 | k | l1   | l2  | l3  | l4  | r     | s  | m1 | m2  | m3 | m4   | [N]* | [N]# | $\Delta$ |
|----------|----------------------|-----|----|------|-------------------|----|---|------|-----|-----|-----|-------|----|----|-----|----|------|------|------|----------|
| GN.19207 | GN 415-ZD-22-A2-KG-1 | 3.3 | 22 | 7    | 1                 | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 8    | 11   | 12       |
| GN.19208 | GN 415-ZD-22-A2-KG-2 | 3.3 | 22 | 7    | 1                 | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 11   | 20   | 12       |
| GN.19209 | GN 415-ZD-22-A2-NG-1 | 3.3 | 22 | 7    | 1                 | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 8    | 11   | 13       |
| GN.19210 | GN 415-ZD-22-A2-NG-2 | 3.3 | 22 | 7    | 1                 | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 11   | 20   | 13       |
| GN.19211 | GN 415-ZD-22-A2-NR-1 | 3.3 | 22 | 7    | 1                 | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 8    | 11   | 14       |
| GN.19212 | GN 415-ZD-22-A2-NR-2 | 3.3 | 22 | 7    | 1                 | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 11   | 20   | 14       |
| GN.19287 | GN 415-ZD-32-A2-KG-1 | 5.4 | 32 | 10   | 1                 | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 8    | 19   | 32       |
| GN.19288 | GN 415-ZD-32-A2-KG-2 | 5.4 | 32 | 10   | 1                 | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 19   | 45   | 32       |
| GN.19289 | GN 415-ZD-32-A2-NG-1 | 5.4 | 32 | 10   | 1                 | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 8    | 19   | 39       |
| GN.19290 | GN 415-ZD-32-A2-NG-2 | 5.4 | 32 | 10   | 1                 | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 19   | 45   | 39       |
| GN.19291 | GN 415-ZD-32-A2-NR-1 | 5.4 | 32 | 10   | 1                 | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 8    | 19   | 40       |
| GN.19292 | GN 415-ZD-32-A2-NR-2 | 5.4 | 32 | 10   | 1                 | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 19   | 45   | 40       |
| GN.19387 | GN 415-ZD-39-A2-KG-1 | 6.5 | 39 | 14.5 | 1                 | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 17   | 33   | 69       |
| GN.19388 | GN 415-ZD-39-A2-KG-2 | 6.5 | 39 | 14.5 | 1                 | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 27   | 75   | 69       |
| GN.19389 | GN 415-ZD-39-A2-NG-1 | 6.5 | 39 | 14.5 | 1                 | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 17   | 33   | 93       |
| GN.19390 | GN 415-ZD-39-A2-NG-2 | 6.5 | 39 | 14.5 | 1                 | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 27   | 75   | 93       |
| GN.19391 | GN 415-ZD-39-A2-NR-1 | 6.5 | 39 | 14.5 | 1                 | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 17   | 33   | 94       |
| GN.19392 | GN 415-ZD-39-A2-NR-2 | 6.5 | 39 | 14.5 | 1                 | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 27   | 75   | 94       |

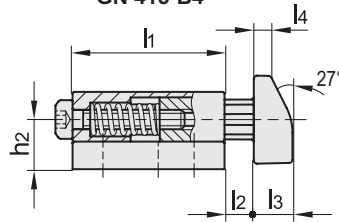
\* Spring preload  
# Spring maximum load



Indexing and positioning elements



GN 415-B1  
GN 415-B2  
GN 415-B3  
GN 415-B4



| Conversion Table  |      |
|-------------------|------|
| 1 mm = 0,039 inch |      |
| b1                |      |
| mm                | inch |
| 22                | 0.87 |
| 32                | 1.26 |
| 39                | 1.54 |

INOX STAINLESS STEEL METRIC

GN 415-B1

| Code     | Description          | d   | b1 | b2   | h1<br>+0.5 | h2 | k | l1   | l2  | l3  | l4  | r     | s  | m1 | m2  | m3 | m4   | [N]* | [N]# | Δ  |
|----------|----------------------|-----|----|------|------------|----|---|------|-----|-----|-----|-------|----|----|-----|----|------|------|------|----|
| GN.19213 | GN 415-ZD-22-B1-KG-1 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 8    | 11   | 12 |
| GN.19214 | GN 415-ZD-22-B1-KG-2 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 11   | 20   | 12 |
| GN.19215 | GN 415-ZD-22-B1-NG-1 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 8    | 11   | 13 |
| GN.19216 | GN 415-ZD-22-B1-NG-2 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 11   | 20   | 13 |
| GN.19217 | GN 415-ZD-22-B1-NR-1 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 8    | 11   | 14 |
| GN.19218 | GN 415-ZD-22-B1-NR-2 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 11   | 20   | 14 |
| GN.19293 | GN 415-ZD-32-B1-KG-1 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 8    | 19   | 32 |
| GN.19294 | GN 415-ZD-32-B1-KG-2 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 19   | 45   | 32 |
| GN.19295 | GN 415-ZD-32-B1-NG-1 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 8    | 19   | 39 |
| GN.19296 | GN 415-ZD-32-B1-NG-2 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 19   | 45   | 39 |
| GN.19297 | GN 415-ZD-32-B1-NR-1 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 8    | 19   | 40 |
| GN.19298 | GN 415-ZD-32-B1-NR-2 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 19   | 45   | 40 |
| GN.19393 | GN 415-ZD-39-B1-KG-1 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 17   | 33   | 69 |
| GN.19394 | GN 415-ZD-39-B1-KG-2 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 27   | 75   | 69 |
| GN.19395 | GN 415-ZD-39-B1-NG-1 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 17   | 33   | 93 |
| GN.19396 | GN 415-ZD-39-B1-NG-2 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 27   | 75   | 93 |
| GN.19397 | GN 415-ZD-39-B1-NR-1 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 17   | 33   | 94 |
| GN.19398 | GN 415-ZD-39-B1-NR-2 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 27   | 75   | 94 |

INOX STAINLESS STEEL METRIC

GN 415-B2

| Code     | Description          | d   | b1 | b2   | h1<br>+0.5 | h2 | k | l1   | l2  | l3  | l4  | r     | s  | m1 | m2  | m3 | m4   | [N]* | [N]# | Δ  |
|----------|----------------------|-----|----|------|------------|----|---|------|-----|-----|-----|-------|----|----|-----|----|------|------|------|----|
| GN.19219 | GN 415-ZD-22-B2-KG-1 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 8    | 11   | 12 |
| GN.19220 | GN 415-ZD-22-B2-KG-2 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 11   | 20   | 12 |
| GN.19221 | GN 415-ZD-22-B2-NG-1 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 8    | 11   | 13 |
| GN.19222 | GN 415-ZD-22-B2-NG-2 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 11   | 20   | 13 |
| GN.19223 | GN 415-ZD-22-B2-NR-1 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 8    | 11   | 14 |
| GN.19224 | GN 415-ZD-22-B2-NR-2 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 11   | 20   | 14 |
| GN.19299 | GN 415-ZD-32-B2-KG-1 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 8    | 19   | 32 |
| GN.19300 | GN 415-ZD-32-B2-KG-2 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 19   | 45   | 32 |
| GN.19301 | GN 415-ZD-32-B2-NG-1 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 8    | 19   | 39 |
| GN.19302 | GN 415-ZD-32-B2-NG-2 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 19   | 45   | 39 |
| GN.19303 | GN 415-ZD-32-B2-NR-1 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 8    | 19   | 40 |
| GN.19304 | GN 415-ZD-32-B2-NR-2 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 19   | 45   | 40 |
| GN.19399 | GN 415-ZD-39-B2-KG-1 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 17   | 33   | 69 |
| GN.19400 | GN 415-ZD-39-B2-KG-2 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 27   | 75   | 69 |
| GN.19401 | GN 415-ZD-39-B2-NG-1 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 17   | 33   | 93 |
| GN.19402 | GN 415-ZD-39-B2-NG-2 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 27   | 75   | 93 |
| GN.19403 | GN 415-ZD-39-B2-NR-1 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 17   | 33   | 94 |
| GN.19404 | GN 415-ZD-39-B2-NR-2 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 27   | 75   | 94 |

\* Spring preload

# Spring maximum load

| Conversion Table  |      |
|-------------------|------|
| 1 mm = 0.039 inch |      |
| b1                |      |
| mm                | inch |
| 22                | 0.87 |
| 32                | 1.26 |
| 39                | 1.54 |

GN 415-B3

INOX STAINLESS STEEL METRIC

| Code     | Description          | d   | b1 | b2   | h1<br>+0.5 | h2 | k | l1   | l2  | l3  | l4  | r     | s  | m1 | m2  | m3 | m4   | [N]* | [N]# | △  |
|----------|----------------------|-----|----|------|------------|----|---|------|-----|-----|-----|-------|----|----|-----|----|------|------|------|----|
| GN.19225 | GN 415-ZD-22-B3-KG-1 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 8    | 11   | 12 |
| GN.19226 | GN 415-ZD-22-B3-KG-2 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 11   | 20   | 12 |
| GN.19227 | GN 415-ZD-22-B3-NG-1 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 8    | 11   | 13 |
| GN.19228 | GN 415-ZD-22-B3-NG-2 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 11   | 20   | 13 |
| GN.19229 | GN 415-ZD-22-B3-NR-1 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 8    | 11   | 14 |
| GN.19230 | GN 415-ZD-22-B3-NR-2 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 11   | 20   | 14 |
| GN.19305 | GN 415-ZD-32-B3-KG-1 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 8    | 19   | 32 |
| GN.19306 | GN 415-ZD-32-B3-KG-2 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 19   | 45   | 32 |
| GN.19307 | GN 415-ZD-32-B3-NG-1 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 8    | 19   | 39 |
| GN.19308 | GN 415-ZD-32-B3-NG-2 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 19   | 45   | 39 |
| GN.19309 | GN 415-ZD-32-B3-NR-1 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 8    | 19   | 40 |
| GN.19310 | GN 415-ZD-32-B3-NR-2 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 19   | 45   | 40 |
| GN.19405 | GN 415-ZD-39-B3-KG-1 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 17   | 33   | 69 |
| GN.19406 | GN 415-ZD-39-B3-KG-2 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 27   | 75   | 69 |
| GN.19407 | GN 415-ZD-39-B3-NG-1 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 17   | 33   | 93 |
| GN.19408 | GN 415-ZD-39-B3-NG-2 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 27   | 75   | 93 |
| GN.19409 | GN 415-ZD-39-B3-NR-1 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 17   | 33   | 94 |
| GN.19410 | GN 415-ZD-39-B3-NR-2 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 27   | 75   | 94 |

GN 415-B4

INOX STAINLESS STEEL METRIC

| Code     | Description          | d   | b1 | b2   | h1<br>+0.5 | h2 | k | l1   | l2  | l3  | l4  | r     | s  | m1 | m2  | m3 | m4   | [N]* | [N]# | △  |
|----------|----------------------|-----|----|------|------------|----|---|------|-----|-----|-----|-------|----|----|-----|----|------|------|------|----|
| GN.19231 | GN 415-ZD-22-B4-KG-1 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 8    | 11   | 12 |
| GN.19232 | GN 415-ZD-22-B4-KG-2 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 11   | 20   | 12 |
| GN.19233 | GN 415-ZD-22-B4-NG-1 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 8    | 11   | 13 |
| GN.19234 | GN 415-ZD-22-B4-NG-2 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 11   | 20   | 13 |
| GN.19235 | GN 415-ZD-22-B4-NR-1 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 8    | 11   | 14 |
| GN.19236 | GN 415-ZD-22-B4-NR-2 | 3.3 | 22 | 7    | 1          | 6  | 4 | 16.5 | 2.8 | 4.8 | 2.4 | 6.25  | 10 | 14 | 4   | 8  | 4.5  | 11   | 20   | 14 |
| GN.19311 | GN 415-ZD-32-B4-KG-1 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 8    | 19   | 32 |
| GN.19312 | GN 415-ZD-32-B4-KG-2 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 19   | 45   | 32 |
| GN.19313 | GN 415-ZD-32-B4-NG-1 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 8    | 19   | 39 |
| GN.19314 | GN 415-ZD-32-B4-NG-2 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 19   | 45   | 39 |
| GN.19315 | GN 415-ZD-32-B4-NR-1 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 8    | 19   | 40 |
| GN.19316 | GN 415-ZD-32-B4-NR-2 | 5.4 | 32 | 10   | 1          | 9  | 5 | 27.5 | 5   | 7   | 3.1 | 10    | 16 | 21 | 5.5 | 12 | 10   | 19   | 45   | 40 |
| GN.19411 | GN 415-ZD-39-B4-KG-1 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 17   | 33   | 69 |
| GN.19412 | GN 415-ZD-39-B4-KG-2 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 27   | 75   | 69 |
| GN.19413 | GN 415-ZD-39-B4-NG-1 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 17   | 33   | 93 |
| GN.19414 | GN 415-ZD-39-B4-NG-2 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 27   | 75   | 93 |
| GN.19415 | GN 415-ZD-39-B4-NR-1 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 17   | 33   | 94 |
| GN.19416 | GN 415-ZD-39-B4-NR-2 | 6.5 | 39 | 14.5 | 1          | 12 | 6 | 35   | 8.2 | 10  | 4.7 | 13.75 | 22 | 27 | 6.5 | 15 | 13.5 | 27   | 75   | 94 |

\* Spring preload  
# Spring maximum load

