

## Locking Pins

### Pin Steel, T-Handle Plastic, with Axial Lock (Pawl)

#### SPECIFICATION

##### Pin

Steel  
Zinc plated, blue passivated

##### Pawl

Stainless steel sheet metal AISI 304

##### T-handle

Plastic, polyamide (PA)

- Black
- Operating temperature up to +80 °C
- Bushing  
Stainless steel AISI 303

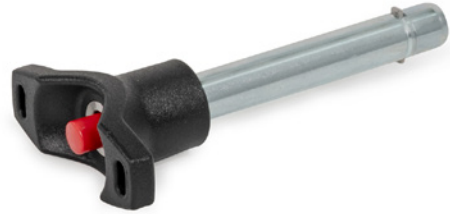
##### Push button / Slide

Plastic, polyacetal (POM)

- Push button: red
- Operating temperature up to +80 °C

##### Compression spring

Stainless steel AISI 302



#### INFORMATION

Locking pins GN 114.7 with axial lock are used to quickly fix, connect and secure various components. Typically, they are used as bearing bolts that have to be frequently assembled and disassembled.

The rectangular pawls made of stainless steel sheet metal hold the locking pin in an axial position in the bore. They are retracted with the push button and when released, the compression spring returns them to the locked position. The pawls are not aligned with the T-handle.

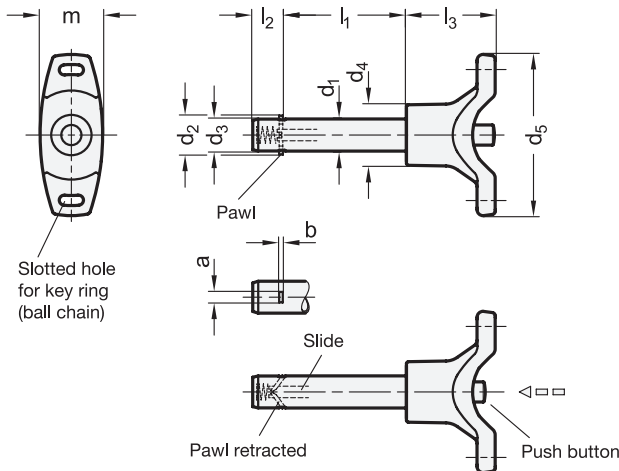
The technical annex contains the load ratings for the double shear strength (breaking strength).

#### ACCESSORY

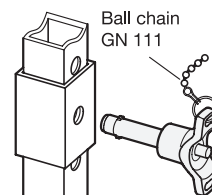
- GN 111 Ball Chains (see page 904) / GN 111.5 Ball Chains (see page 905)
- GN 111.2 Retaining Cables (see page 906)
- GN 111.4 Spiral Retaining Cables (see page 908)

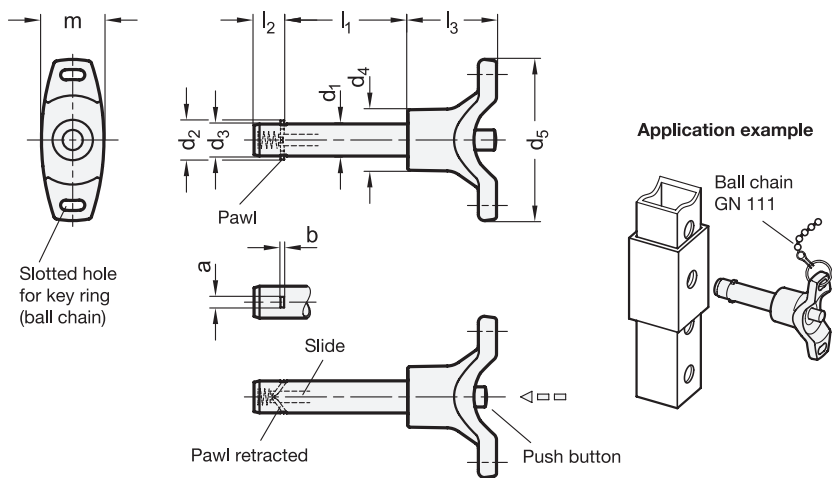
#### TECHNICAL INFORMATION

- List of Lock Pin Types (see page 868)
- Load Capacity (see page )
- Plastic Characteristics (see page A2)
- Stainless Steel Characteristics (see page A26)



#### Application example





GN 114.7

| Description     | d1<br>-0.1 | l1 +0.4<br>Minimum<br>size | a   | b   | d2   | d3   | d4 | d5 | l2   | l3   | m    | Load capacity<br>F<br>in kN ≈ | ⚖  |
|-----------------|------------|----------------------------|-----|-----|------|------|----|----|------|------|------|-------------------------------|----|
| GN 114.7-6-10   | 6          | 10                         | 2.3 | 0.5 | 7.3  | 5.9  | 15 | 40 | 7    | 22   | 15.5 | 14                            | 14 |
| GN 114.7-6-12   | 6          | 12                         | 2.3 | 0.5 | 7.3  | 5.9  | 15 | 40 | 7    | 22   | 15.5 | 14                            | 15 |
| GN 114.7-6-16   | 6          | 16                         | 2.3 | 0.5 | 7.3  | 5.9  | 15 | 40 | 7    | 22   | 15.5 | 14                            | 16 |
| GN 114.7-6-20   | 6          | 20                         | 2.3 | 0.5 | 7.3  | 5.9  | 15 | 40 | 7    | 22   | 15.5 | 14                            | 17 |
| GN 114.7-6-25   | 6          | 25                         | 2.3 | 0.5 | 7.3  | 5.9  | 15 | 40 | 7    | 22   | 15.5 | 14                            | 18 |
| GN 114.7-6-30   | 6          | 30                         | 2.3 | 0.5 | 7.3  | 5.9  | 15 | 40 | 7    | 22   | 15.5 | 14                            | 19 |
| GN 114.7-6-35   | 6          | 35                         | 2.3 | 0.5 | 7.3  | 5.9  | 15 | 40 | 7    | 22   | 15.5 | 14                            | 20 |
| GN 114.7-6-40   | 6          | 40                         | 2.3 | 0.5 | 7.3  | 5.9  | 15 | 40 | 7    | 22   | 15.5 | 14                            | 21 |
| GN 114.7-6-45   | 6          | 45                         | 2.3 | 0.5 | 7.3  | 5.9  | 15 | 40 | 7    | 22   | 15.5 | 14                            | 22 |
| GN 114.7-6-50   | 6          | 50                         | 2.3 | 0.5 | 7.3  | 5.9  | 15 | 40 | 7    | 22   | 15.5 | 14                            | 23 |
| GN 114.7-6-60   | 6          | 60                         | 2.3 | 0.5 | 7.3  | 5.9  | 15 | 40 | 7    | 22   | 15.5 | 14                            | 24 |
| GN 114.7-6-70   | 6          | 70                         | 2.3 | 0.5 | 7.3  | 5.9  | 15 | 40 | 7    | 22   | 15.5 | 14                            | 25 |
| GN 114.7-6-80   | 6          | 80                         | 2.3 | 0.5 | 7.3  | 5.9  | 15 | 40 | 7    | 22   | 15.5 | 14                            | 26 |
| GN 114.7-8-10   | 8          | 10                         | 2.8 | 0.6 | 9.8  | 7.9  | 15 | 40 | 8.4  | 22   | 15.5 | 28                            | 17 |
| GN 114.7-8-16   | 8          | 16                         | 2.8 | 0.6 | 9.8  | 7.9  | 15 | 40 | 8.4  | 22   | 15.5 | 28                            | 19 |
| GN 114.7-8-20   | 8          | 20                         | 2.8 | 0.6 | 9.8  | 7.9  | 15 | 40 | 8.4  | 22   | 15.5 | 28                            | 20 |
| GN 114.7-8-25   | 8          | 25                         | 2.8 | 0.6 | 9.8  | 7.9  | 15 | 40 | 8.4  | 22   | 15.5 | 28                            | 22 |
| GN 114.7-8-30   | 8          | 30                         | 2.8 | 0.6 | 9.8  | 7.9  | 15 | 40 | 8.4  | 22   | 15.5 | 28                            | 24 |
| GN 114.7-8-35   | 8          | 35                         | 2.8 | 0.6 | 9.8  | 7.9  | 15 | 40 | 8.4  | 22   | 15.5 | 28                            | 25 |
| GN 114.7-8-40   | 8          | 40                         | 2.8 | 0.6 | 9.8  | 7.9  | 15 | 40 | 8.4  | 22   | 15.5 | 28                            | 27 |
| GN 114.7-8-45   | 8          | 45                         | 2.8 | 0.6 | 9.8  | 7.9  | 15 | 40 | 8.4  | 22   | 15.5 | 28                            | 29 |
| GN 114.7-8-50   | 8          | 50                         | 2.8 | 0.6 | 9.8  | 7.9  | 15 | 40 | 8.4  | 22   | 15.5 | 28                            | 30 |
| GN 114.7-8-60   | 8          | 60                         | 2.8 | 0.6 | 9.8  | 7.9  | 15 | 40 | 8.4  | 22   | 15.5 | 28                            | 34 |
| GN 114.7-8-70   | 8          | 70                         | 2.8 | 0.6 | 9.8  | 7.9  | 15 | 40 | 8.4  | 22   | 15.5 | 28                            | 37 |
| GN 114.7-8-80   | 8          | 80                         | 2.8 | 0.6 | 9.8  | 7.9  | 15 | 40 | 8.4  | 22   | 15.5 | 28                            | 40 |
| GN 114.7-8-90   | 8          | 90                         | 2.8 | 0.6 | 9.8  | 7.9  | 15 | 40 | 8.4  | 22   | 15.5 | 28                            | 44 |
| GN 114.7-8-100  | 8          | 100                        | 2.8 | 0.6 | 9.8  | 7.9  | 15 | 40 | 8.4  | 22   | 15.5 | 28                            | 47 |
| GN 114.7-10-15  | 10         | 15                         | 3.3 | 1   | 11.7 | 9.9  | 18 | 48 | 9.8  | 27.5 | 20   | 38                            | 31 |
| GN 114.7-10-20  | 10         | 20                         | 3.3 | 1   | 11.7 | 9.9  | 18 | 48 | 9.8  | 27.5 | 20   | 38                            | 33 |
| GN 114.7-10-25  | 10         | 25                         | 3.3 | 1   | 11.7 | 9.9  | 18 | 48 | 9.8  | 27.5 | 20   | 38                            | 36 |
| GN 114.7-10-30  | 10         | 30                         | 3.3 | 1   | 11.7 | 9.9  | 18 | 48 | 9.8  | 27.5 | 20   | 38                            | 38 |
| GN 114.7-10-35  | 10         | 35                         | 3.3 | 1   | 11.7 | 9.9  | 18 | 48 | 9.8  | 27.5 | 20   | 38                            | 40 |
| GN 114.7-10-40  | 10         | 40                         | 3.3 | 1   | 11.7 | 9.9  | 18 | 48 | 9.8  | 27.5 | 20   | 38                            | 43 |
| GN 114.7-10-45  | 10         | 45                         | 3.3 | 1   | 11.7 | 9.9  | 18 | 48 | 9.8  | 27.5 | 20   | 38                            | 45 |
| GN 114.7-10-50  | 10         | 50                         | 3.3 | 1   | 11.7 | 9.9  | 18 | 48 | 9.8  | 27.5 | 20   | 38                            | 47 |
| GN 114.7-10-60  | 10         | 60                         | 3.3 | 1   | 11.7 | 9.9  | 18 | 48 | 9.8  | 27.5 | 20   | 38                            | 52 |
| GN 114.7-10-70  | 10         | 70                         | 3.3 | 1   | 11.7 | 9.9  | 18 | 48 | 9.8  | 27.5 | 20   | 38                            | 56 |
| GN 114.7-10-80  | 10         | 80                         | 3.3 | 1   | 11.7 | 9.9  | 18 | 48 | 9.8  | 27.5 | 20   | 38                            | 61 |
| GN 114.7-10-90  | 10         | 90                         | 3.3 | 1   | 11.7 | 9.9  | 18 | 48 | 9.8  | 27.5 | 20   | 38                            | 65 |
| GN 114.7-10-100 | 10         | 100                        | 3.3 | 1   | 11.7 | 9.9  | 18 | 48 | 9.8  | 27.5 | 20   | 38                            | 70 |
| GN 114.7-10-110 | 10         | 110                        | 3.3 | 1   | 11.7 | 9.9  | 18 | 48 | 9.8  | 27.5 | 20   | 38                            | 75 |
| GN 114.7-10-120 | 10         | 120                        | 3.3 | 1   | 11.7 | 9.9  | 18 | 48 | 9.8  | 27.5 | 20   | 38                            | 79 |
| GN 114.7-12-20  | 12         | 20                         | 3.8 | 1   | 13.7 | 11.9 | 18 | 48 | 11.3 | 27.5 | 20   | 61                            | 41 |
| GN 114.7-12-25  | 12         | 25                         | 3.8 | 1   | 13.7 | 11.9 | 18 | 48 | 11.3 | 27.5 | 20   | 61                            | 45 |

GN 114.7

| Description     | d1<br>-0.1 | l1 +0.4<br>Minimum<br>size | a   | b   | d2   | d3   | d4 | d5 | l2   | l3   | m  | Load capacity<br>F<br>in kN ≈ | ⚖   |
|-----------------|------------|----------------------------|-----|-----|------|------|----|----|------|------|----|-------------------------------|-----|
| GN 114.7-12-30  | 12         | 30                         | 3.8 | 1   | 13.7 | 11.9 | 18 | 48 | 11.3 | 27.5 | 20 | 61                            | 48  |
| GN 114.7-12-35  | 12         | 35                         | 3.8 | 1   | 13.7 | 11.9 | 18 | 48 | 11.3 | 27.5 | 20 | 61                            | 52  |
| GN 114.7-12-40  | 12         | 40                         | 3.8 | 1   | 13.7 | 11.9 | 18 | 48 | 11.3 | 27.5 | 20 | 61                            | 56  |
| GN 114.7-12-45  | 12         | 45                         | 3.8 | 1   | 13.7 | 11.9 | 18 | 48 | 11.3 | 27.5 | 20 | 61                            | 59  |
| GN 114.7-12-50  | 12         | 50                         | 3.8 | 1   | 13.7 | 11.9 | 18 | 48 | 11.3 | 27.5 | 20 | 61                            | 63  |
| GN 114.7-12-60  | 12         | 60                         | 3.8 | 1   | 13.7 | 11.9 | 18 | 48 | 11.3 | 27.5 | 20 | 61                            | 70  |
| GN 114.7-12-70  | 12         | 70                         | 3.8 | 1   | 13.7 | 11.9 | 18 | 48 | 11.3 | 27.5 | 20 | 61                            | 78  |
| GN 114.7-12-80  | 12         | 80                         | 3.8 | 1   | 13.7 | 11.9 | 18 | 48 | 11.3 | 27.5 | 20 | 61                            | 85  |
| GN 114.7-12-90  | 12         | 90                         | 3.8 | 1   | 13.7 | 11.9 | 18 | 48 | 11.3 | 27.5 | 20 | 61                            | 92  |
| GN 114.7-12-100 | 12         | 100                        | 3.8 | 1   | 13.7 | 11.9 | 18 | 48 | 11.3 | 27.5 | 20 | 61                            | 100 |
| GN 114.7-12-110 | 12         | 110                        | 3.8 | 1   | 13.7 | 11.9 | 18 | 48 | 11.3 | 27.5 | 20 | 61                            | 107 |
| GN 114.7-12-120 | 12         | 120                        | 3.8 | 1   | 13.7 | 11.9 | 18 | 48 | 11.3 | 27.5 | 20 | 61                            | 115 |
| GN 114.7-16-30  | 16         | 30                         | 4.8 | 1.2 | 18.7 | 15.9 | 22 | 58 | 14.2 | 34.5 | 27 | 113                           | 95  |
| GN 114.7-16-35  | 16         | 35                         | 4.8 | 1.2 | 18.7 | 15.9 | 22 | 58 | 14.2 | 34.5 | 27 | 113                           | 101 |
| GN 114.7-16-40  | 16         | 40                         | 4.8 | 1.2 | 18.7 | 15.9 | 22 | 58 | 14.2 | 34.5 | 27 | 113                           | 108 |
| GN 114.7-16-45  | 16         | 45                         | 4.8 | 1.2 | 18.7 | 15.9 | 22 | 58 | 14.2 | 34.5 | 27 | 113                           | 115 |
| GN 114.7-16-50  | 16         | 50                         | 4.8 | 1.2 | 18.7 | 15.9 | 22 | 58 | 14.2 | 34.5 | 27 | 113                           | 122 |
| GN 114.7-16-60  | 16         | 60                         | 4.8 | 1.2 | 18.7 | 15.9 | 22 | 58 | 14.2 | 34.5 | 27 | 113                           | 135 |
| GN 114.7-16-70  | 16         | 70                         | 4.8 | 1.2 | 18.7 | 15.9 | 22 | 58 | 14.2 | 34.5 | 27 | 113                           | 149 |
| GN 114.7-16-80  | 16         | 80                         | 4.8 | 1.2 | 18.7 | 15.9 | 22 | 58 | 14.2 | 34.5 | 27 | 113                           | 162 |
| GN 114.7-16-90  | 16         | 90                         | 4.8 | 1.2 | 18.7 | 15.9 | 22 | 58 | 14.2 | 34.5 | 27 | 113                           | 176 |
| GN 114.7-16-100 | 16         | 100                        | 4.8 | 1.2 | 18.7 | 15.9 | 22 | 58 | 14.2 | 34.5 | 27 | 113                           | 190 |
| GN 114.7-16-110 | 16         | 110                        | 4.8 | 1.2 | 18.7 | 15.9 | 22 | 58 | 14.2 | 34.5 | 27 | 113                           | 203 |
| GN 114.7-16-120 | 16         | 120                        | 4.8 | 1.2 | 18.7 | 15.9 | 22 | 58 | 14.2 | 34.5 | 27 | 113                           | 217 |
| GN 114.7-16-130 | 16         | 130                        | 4.8 | 1.2 | 18.7 | 15.9 | 22 | 58 | 14.2 | 34.5 | 27 | 113                           | 230 |
| GN 114.7-16-140 | 16         | 140                        | 4.8 | 1.2 | 18.7 | 15.9 | 22 | 58 | 14.2 | 34.5 | 27 | 113                           | 244 |
| GN 114.7-16-150 | 16         | 150                        | 4.8 | 1.2 | 18.7 | 15.9 | 22 | 58 | 14.2 | 34.5 | 27 | 113                           | 257 |
| GN 114.7-20-30  | 20         | 30                         | 4.8 | 1.2 | 22.7 | 19.8 | 25 | 58 | 14.8 | 34.5 | 27 | 187                           | 133 |
| GN 114.7-20-35  | 20         | 35                         | 4.8 | 1.2 | 22.7 | 19.8 | 25 | 58 | 14.8 | 34.5 | 27 | 187                           | 145 |
| GN 114.7-20-40  | 20         | 40                         | 4.8 | 1.2 | 22.7 | 19.8 | 25 | 58 | 14.8 | 34.5 | 27 | 187                           | 156 |
| GN 114.7-20-45  | 20         | 45                         | 4.8 | 1.2 | 22.7 | 19.8 | 25 | 58 | 14.8 | 34.5 | 27 | 187                           | 167 |
| GN 114.7-20-50  | 20         | 50                         | 4.8 | 1.2 | 22.7 | 19.8 | 25 | 58 | 14.8 | 34.5 | 27 | 187                           | 178 |
| GN 114.7-20-60  | 20         | 60                         | 4.8 | 1.2 | 22.7 | 19.8 | 25 | 58 | 14.8 | 34.5 | 27 | 187                           | 201 |
| GN 114.7-20-70  | 20         | 70                         | 4.8 | 1.2 | 22.7 | 19.8 | 25 | 58 | 14.8 | 34.5 | 27 | 187                           | 223 |
| GN 114.7-20-80  | 20         | 80                         | 4.8 | 1.2 | 22.7 | 19.8 | 25 | 58 | 14.8 | 34.5 | 27 | 187                           | 245 |
| GN 114.7-20-90  | 20         | 90                         | 4.8 | 1.2 | 22.7 | 19.8 | 25 | 58 | 14.8 | 34.5 | 27 | 187                           | 268 |
| GN 114.7-20-100 | 20         | 100                        | 4.8 | 1.2 | 22.7 | 19.8 | 25 | 58 | 14.8 | 34.5 | 27 | 187                           | 290 |
| GN 114.7-20-110 | 20         | 110                        | 4.8 | 1.2 | 22.7 | 19.8 | 25 | 58 | 14.8 | 34.5 | 27 | 187                           | 312 |
| GN 114.7-20-120 | 20         | 120                        | 4.8 | 1.2 | 22.7 | 19.8 | 25 | 58 | 14.8 | 34.5 | 27 | 187                           | 335 |
| GN 114.7-20-130 | 20         | 130                        | 4.8 | 1.2 | 22.7 | 19.8 | 25 | 58 | 14.8 | 34.5 | 27 | 187                           | 357 |
| GN 114.7-20-140 | 20         | 140                        | 4.8 | 1.2 | 22.7 | 19.8 | 25 | 58 | 14.8 | 34.5 | 27 | 187                           | 380 |
| GN 114.7-20-150 | 20         | 150                        | 4.8 | 1.2 | 22.7 | 19.8 | 25 | 58 | 14.8 | 34.5 | 27 | 187                           | 402 |