

## PIN AND PUSH BUTTON

AISI 303 stainless steel.

## BALLS

AISI 420C stainless steel.

## SPRING

AISI 631 stainless steel.

## CYLINDRICAL BODY TO BE GRIPPED

Shaped for a safe grip, with groove for the assembly of a security ring and chain.

## SECURITY RING (REMOVABLE)

Stainless steel.

## MAX. WORKING TEMPERATURE

250°C.

## FEATURES AND APPLICATIONS

GN 113.3 ball lock pins have very compact shape and dimensions. They are suitable for use in very limited areas and they are generally used for quick fixation or connection of parts to be machined, in particular for elements which need to be removed and reset continuously.

## ACCESSORIES ON REQUEST

To optimise the use of these ball lock pins, have been designed:

- ball chains GN 111 (see page 611);
- retaining cables GN 111.2 (see page 612);
- spiral retaining cables GN 111.4 (see page 613).

## SPECIAL EXECUTIONS ON REQUEST

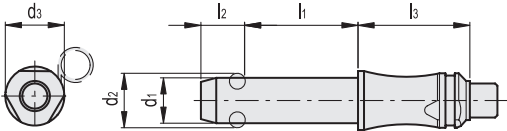
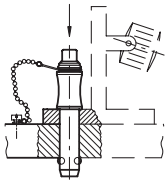
Other dimensions.

## INSTRUCTIONS OF USE

By pressing the push button the two balls are freed and the pin can be pulled-out or inserted.



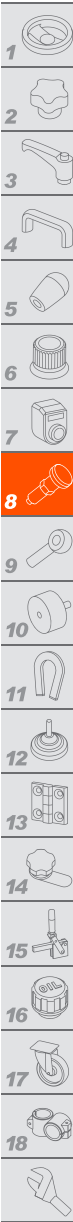
Application example



| Code     | Description   | d1 -0.04 -0.08 | d2  | d3 | l1 +0.6 | l2 ±1 | l3 +0.2 | Mounting hole<br>H11 | Double sided<br>shearing force<br>[KN] | ⚖  |
|----------|---------------|----------------|-----|----|---------|-------|---------|----------------------|----------------------------------------|----|
| GN.37981 | GN 113.3-5-10 | 5              | 5.5 | 10 | 10      | 6     | 22      | 5                    | 14                                     | 17 |
| GN.37982 | GN 113.3-5-15 | 5              | 5.5 | 10 | 15      | 6     | 22      | 5                    | 14                                     | 17 |
| GN.37983 | GN 113.3-5-20 | 5              | 5.5 | 10 | 20      | 6     | 22      | 5                    | 14                                     | 17 |
| GN.37984 | GN 113.3-5-25 | 5              | 5.5 | 10 | 25      | 6     | 22      | 5                    | 14                                     | 20 |
| GN.77401 | GN 113.3-5-30 | 5              | 5.5 | 10 | 30      | 6     | 22      | 5                    | 14                                     | 17 |
| GN.77402 | GN 113.3-5-35 | 5              | 5.5 | 10 | 35      | 6     | 22      | 5                    | 14                                     | 17 |
| GN.77403 | GN 113.3-5-40 | 5              | 5.5 | 10 | 40      | 6     | 22      | 5                    | 14                                     | 17 |
| GN.77404 | GN 113.3-5-45 | 5              | 5.5 | 10 | 45      | 6     | 22      | 5                    | 14                                     | 17 |
| GN.77405 | GN 113.3-5-50 | 5              | 5.5 | 10 | 50      | 6     | 22      | 5                    | 14                                     | 17 |
| GN.77406 | GN 113.3-5-60 | 5              | 5.5 | 10 | 60      | 6     | 22      | 5                    | 14                                     | 17 |
| GN.77407 | GN 113.3-5-70 | 5              | 5.5 | 10 | 70      | 6     | 22      | 5                    | 14                                     | 17 |
| GN.77408 | GN 113.3-5-80 | 5              | 5.5 | 10 | 80      | 6     | 22      | 5                    | 14                                     | 17 |
| GN.38011 | GN 113.3-6-10 | 6              | 7   | 10 | 10      | 7     | 22      | 6                    | 21                                     | 29 |
| GN.38012 | GN 113.3-6-15 | 6              | 7   | 10 | 15      | 7     | 22      | 6                    | 21                                     | 30 |
| GN.38013 | GN 113.3-6-20 | 6              | 7   | 10 | 20      | 7     | 22      | 6                    | 21                                     | 31 |
| GN.38014 | GN 113.3-6-25 | 6              | 7   | 10 | 25      | 7     | 22      | 6                    | 21                                     | 32 |
| GN.38015 | GN 113.3-6-30 | 6              | 7   | 10 | 30      | 7     | 22      | 6                    | 21                                     | 33 |
| GN.77411 | GN 113.3-6-35 | 6              | 7   | 10 | 35      | 7     | 22      | 6                    | 21                                     | 33 |
| GN.38016 | GN 113.3-6-40 | 6              | 7   | 10 | 40      | 7     | 22      | 6                    | 21                                     | 35 |
| GN.77412 | GN 113.3-6-45 | 6              | 7   | 10 | 45      | 7     | 22      | 6                    | 21                                     | 33 |
| GN.77413 | GN 113.3-6-50 | 6              | 7   | 10 | 50      | 7     | 22      | 6                    | 21                                     | 33 |
| GN.77414 | GN 113.3-6-60 | 6              | 7   | 10 | 60      | 7     | 22      | 6                    | 21                                     | 33 |
| GN.77415 | GN 113.3-6-70 | 6              | 7   | 10 | 70      | 7     | 22      | 6                    | 21                                     | 33 |
| GN.77416 | GN 113.3-6-80 | 6              | 7   | 10 | 80      | 7     | 22      | 6                    | 21                                     | 33 |

INOX STAINLESS STEEL

| Code     | Description     | d1 -0.04 -0.08 | d2   | d3 | l1 +0.6 | l2 ±1 | l3 +0.2 | Mounting hole<br>H11 | Double sided<br>shearing force<br>[kN] |  |
|----------|-----------------|----------------|------|----|---------|-------|---------|----------------------|----------------------------------------|-------------------------------------------------------------------------------------|
| GN.77421 | GN 113.3-8-10   | 8              | 9.5  | 14 | 10      | 8.2   | 27      | 8                    | 38                                     | 35                                                                                  |
| GN.77422 | GN 113.3-8-15   | 8              | 9.5  | 14 | 15      | 8.2   | 27      | 8                    | 38                                     | 35                                                                                  |
| GN.38021 | GN 113.3-8-20   | 8              | 9.5  | 14 | 20      | 8.2   | 27      | 8                    | 38                                     | 35                                                                                  |
| GN.38022 | GN 113.3-8-25   | 8              | 9.5  | 14 | 25      | 8.2   | 27      | 8                    | 38                                     | 37                                                                                  |
| GN.38023 | GN 113.3-8-30   | 8              | 9.5  | 14 | 30      | 8.2   | 27      | 8                    | 38                                     | 38                                                                                  |
| GN.77423 | GN 113.3-8-35   | 8              | 9.5  | 14 | 35      | 8.2   | 27      | 8                    | 38                                     | 35                                                                                  |
| GN.38025 | GN 113.3-8-40   | 8              | 9.5  | 14 | 40      | 8.2   | 27      | 8                    | 38                                     | 42                                                                                  |
| GN.77424 | GN 113.3-8-45   | 8              | 9.5  | 14 | 45      | 8.2   | 27      | 8                    | 38                                     | 35                                                                                  |
| GN.77425 | GN 113.3-8-60   | 8              | 9.5  | 14 | 60      | 8.2   | 27      | 8                    | 38                                     | 35                                                                                  |
| GN.38027 | GN 113.3-8-50   | 8              | 9.5  | 14 | 50      | 8.2   | 27      | 8                    | 38                                     | 46                                                                                  |
| GN.77426 | GN 113.3-8-70   | 8              | 9.5  | 14 | 70      | 8.2   | 27      | 8                    | 38                                     | 35                                                                                  |
| GN.77427 | GN 113.3-8-80   | 8              | 9.5  | 14 | 80      | 8.2   | 27      | 8                    | 38                                     | 35                                                                                  |
| GN.77428 | GN 113.3-8-90   | 8              | 9.5  | 14 | 90      | 8.2   | 27      | 8                    | 38                                     | 35                                                                                  |
| GN.77429 | GN 113.3-8-100  | 8              | 9.5  | 14 | 100     | 8.2   | 27      | 8                    | 38                                     | 35                                                                                  |
| GN.77431 | GN 113.3-10-15  | 10             | 12   | 14 | 15      | 9.6   | 27      | 10                   | 60                                     | 72                                                                                  |
| GN.38031 | GN 113.3-10-20  | 10             | 12   | 14 | 20      | 9.6   | 27      | 10                   | 60                                     | 72                                                                                  |
| GN.38032 | GN 113.3-10-25  | 10             | 12   | 14 | 25      | 9.6   | 27      | 10                   | 60                                     | 75                                                                                  |
| GN.38033 | GN 113.3-10-30  | 10             | 12   | 14 | 30      | 9.6   | 27      | 10                   | 60                                     | 78                                                                                  |
| GN.77432 | GN 113.3-10-35  | 10             | 12   | 14 | 35      | 9.6   | 27      | 10                   | 60                                     | 72                                                                                  |
| GN.38035 | GN 113.3-10-40  | 10             | 12   | 14 | 40      | 9.6   | 27      | 10                   | 60                                     | 84                                                                                  |
| GN.77433 | GN 113.3-10-45  | 10             | 12   | 14 | 45      | 9.6   | 27      | 10                   | 60                                     | 72                                                                                  |
| GN.38037 | GN 113.3-10-50  | 10             | 12   | 14 | 50      | 9.6   | 27      | 10                   | 60                                     | 90                                                                                  |
| GN.77434 | GN 113.3-10-60  | 10             | 12   | 14 | 60      | 9.6   | 27      | 10                   | 60                                     | 72                                                                                  |
| GN.77435 | GN 113.3-10-70  | 10             | 12   | 14 | 70      | 9.6   | 27      | 10                   | 60                                     | 72                                                                                  |
| GN.77436 | GN 113.3-10-80  | 10             | 12   | 14 | 80      | 9.6   | 27      | 10                   | 60                                     | 72                                                                                  |
| GN.77437 | GN 113.3-10-90  | 10             | 12   | 14 | 90      | 9.6   | 27      | 10                   | 60                                     | 72                                                                                  |
| GN.77438 | GN 113.3-10-100 | 10             | 12   | 14 | 100     | 9.6   | 27      | 10                   | 60                                     | 72                                                                                  |
| GN.77439 | GN 113.3-10-110 | 10             | 12   | 14 | 110     | 9.6   | 27      | 10                   | 60                                     | 72                                                                                  |
| GN.77440 | GN 113.3-10-120 | 10             | 12   | 14 | 120     | 9.6   | 27      | 10                   | 60                                     | 72                                                                                  |
| GN.77451 | GN 113.3-12-20  | 12             | 14.5 | 20 | 20      | 10.6  | 32      | 12                   | 87                                     | 86                                                                                  |
| GN.38041 | GN 113.3-12-25  | 12             | 14.5 | 20 | 25      | 10.6  | 32      | 12                   | 87                                     | 86                                                                                  |
| GN.38042 | GN 113.3-12-30  | 12             | 14.5 | 20 | 30      | 10.6  | 32      | 12                   | 87                                     | 90                                                                                  |
| GN.77452 | GN 113.3-12-35  | 12             | 14.5 | 20 | 35      | 10.6  | 32      | 12                   | 87                                     | 86                                                                                  |
| GN.38044 | GN 113.3-12-40  | 12             | 14.5 | 20 | 40      | 10.6  | 32      | 12                   | 87                                     | 98                                                                                  |
| GN.77453 | GN 113.3-12-45  | 12             | 14.5 | 20 | 45      | 10.6  | 32      | 12                   | 87                                     | 86                                                                                  |
| GN.38046 | GN 113.3-12-50  | 12             | 14.5 | 20 | 50      | 10.6  | 32      | 12                   | 87                                     | 107                                                                                 |
| GN.38047 | GN 113.3-12-60  | 12             | 14.5 | 20 | 60      | 10.6  | 32      | 12                   | 87                                     | 115                                                                                 |
| GN.77454 | GN 113.3-12-70  | 12             | 14.5 | 20 | 70      | 10.6  | 32      | 12                   | 87                                     | 86                                                                                  |
| GN.77455 | GN 113.3-12-80  | 12             | 14.5 | 20 | 80      | 10.6  | 32      | 12                   | 87                                     | 86                                                                                  |
| GN.77456 | GN 113.3-12-90  | 12             | 14.5 | 20 | 90      | 10.6  | 32      | 12                   | 87                                     | 86                                                                                  |
| GN.77457 | GN 113.3-12-100 | 12             | 14.5 | 20 | 100     | 10.6  | 32      | 12                   | 87                                     | 86                                                                                  |
| GN.77458 | GN 113.3-12-110 | 12             | 14.5 | 20 | 110     | 10.6  | 32      | 12                   | 87                                     | 86                                                                                  |
| GN.77459 | GN 113.3-12-120 | 12             | 14.5 | 20 | 120     | 10.6  | 32      | 12                   | 87                                     | 86                                                                                  |



Indexing and positioning elements



INOX STAINLESS STEEL

| Code     | Description     | d1 -0.04 -0.08 | d2   | d3 | l1 +0.6 | l2 ±1 | l3 +0.2 | Mounting hole H11 | Double sided shearing force [KN] | ⚖   |
|----------|-----------------|----------------|------|----|---------|-------|---------|-------------------|----------------------------------|-----|
| GN.37985 | GN 113.3-16-30  | 16             | 19   | 20 | 30      | 14    | 32      | 16                | 155                              | 120 |
| GN.77461 | GN 113.3-16-35  | 16             | 19   | 20 | 35      | 14    | 32      | 16                | 155                              | 120 |
| GN.37986 | GN 113.3-16-40  | 16             | 19   | 20 | 40      | 14    | 32      | 16                | 155                              | 130 |
| GN.77462 | GN 113.3-16-45  | 16             | 19   | 20 | 45      | 14    | 32      | 16                | 155                              | 120 |
| GN.37987 | GN 113.3-16-50  | 16             | 19   | 20 | 50      | 14    | 32      | 16                | 155                              | 160 |
| GN.37988 | GN 113.3-16-60  | 16             | 19   | 20 | 60      | 14    | 32      | 16                | 155                              | 160 |
| GN.77463 | GN 113.3-16-70  | 16             | 19   | 20 | 70      | 14    | 32      | 16                | 155                              | 120 |
| GN.77464 | GN 113.3-16-80  | 16             | 19   | 20 | 80      | 14    | 32      | 16                | 155                              | 120 |
| GN.77465 | GN 113.3-16-90  | 16             | 19   | 20 | 90      | 14    | 32      | 16                | 155                              | 120 |
| GN.77466 | GN 113.3-16-100 | 16             | 19   | 20 | 100     | 14    | 32      | 16                | 155                              | 120 |
| GN.77467 | GN 113.3-16-110 | 16             | 19   | 20 | 110     | 14    | 32      | 16                | 155                              | 120 |
| GN.77468 | GN 113.3-16-120 | 16             | 19   | 20 | 120     | 14    | 32      | 16                | 155                              | 120 |
| GN.77469 | GN 113.3-16-130 | 16             | 19   | 20 | 130     | 14    | 32      | 16                | 155                              | 120 |
| GN.77470 | GN 113.3-16-140 | 16             | 19   | 20 | 140     | 14    | 32      | 16                | 155                              | 120 |
| GN.77471 | GN 113.3-16-150 | 16             | 19   | 20 | 150     | 14    | 32      | 16                | 155                              | 120 |
| GN.77481 | GN 113.3-20-50  | 20             | 25   | 28 | 50      | 20.5  | 39      | 20                | 244                              | 323 |
| GN.37989 | GN 113.3-20-60  | 20             | 25   | 28 | 60      | 20.5  | 39      | 20                | 244                              | 323 |
| GN.77482 | GN 113.3-20-70  | 20             | 25   | 28 | 70      | 20.5  | 39      | 20                | 244                              | 323 |
| GN.37990 | GN 113.3-20-80  | 20             | 25   | 28 | 80      | 20.5  | 39      | 20                | 244                              | 350 |
| GN.77483 | GN 113.3-20-90  | 20             | 25   | 28 | 90      | 20.5  | 39      | 20                | 244                              | 323 |
| GN.37991 | GN 113.3-20-100 | 20             | 25   | 28 | 100     | 20.5  | 39      | 20                | 244                              | 420 |
| GN.77484 | GN 113.3-20-110 | 20             | 25   | 28 | 110     | 20.5  | 39      | 20                | 244                              | 323 |
| GN.77485 | GN 113.3-20-120 | 20             | 25   | 28 | 120     | 20.5  | 39      | 20                | 244                              | 323 |
| GN.77486 | GN 113.3-20-130 | 20             | 25   | 28 | 130     | 20.5  | 39      | 20                | 244                              | 323 |
| GN.77487 | GN 113.3-20-140 | 20             | 25   | 28 | 140     | 20.5  | 39      | 20                | 244                              | 323 |
| GN.77488 | GN 113.3-20-150 | 20             | 25   | 28 | 150     | 20.5  | 39      | 20                | 244                              | 323 |
| GN.77491 | GN 113.3-25-50  | 25             | 30.8 | 28 | 50      | 22    | 39      | 25                | 244                              | 323 |
| GN.77492 | GN 113.3-25-60  | 25             | 30.8 | 28 | 60      | 22    | 39      | 25                | 244                              | 323 |
| GN.77493 | GN 113.3-25-70  | 25             | 30.8 | 28 | 70      | 22    | 39      | 25                | 244                              | 323 |
| GN.77494 | GN 113.3-25-80  | 25             | 30.8 | 28 | 80      | 22    | 39      | 25                | 244                              | 323 |
| GN.77495 | GN 113.3-25-90  | 25             | 30.8 | 28 | 90      | 22    | 39      | 25                | 244                              | 323 |
| GN.77496 | GN 113.3-25-100 | 25             | 30.8 | 28 | 100     | 22    | 39      | 25                | 244                              | 323 |
| GN.77497 | GN 113.3-25-110 | 25             | 30.8 | 28 | 110     | 22    | 39      | 25                | 244                              | 323 |
| GN.77498 | GN 113.3-25-120 | 25             | 30.8 | 28 | 120     | 22    | 39      | 25                | 244                              | 323 |
| GN.77499 | GN 113.3-25-130 | 25             | 30.8 | 28 | 130     | 22    | 39      | 25                | 244                              | 323 |
| GN.77500 | GN 113.3-25-140 | 25             | 30.8 | 28 | 140     | 22    | 39      | 25                | 244                              | 323 |
| GN.77501 | GN 113.3-25-150 | 25             | 30.8 | 28 | 150     | 22    | 39      | 25                | 244                              | 323 |