

## Ball Lock Pins with L-handle• single acting - according to NASM / MS 17986

4212.D20



### Product Description

Quick Release Pins according to NASM (former norm: MS) are used for quick fastening, locking, adjusting, changing and securing. Quickly and easily unlockable for frequently repeated connections.

Quick Release Pins (Single Acting Ball Lock Pins / Ball Lock Pins) are produced according to Aviation Norm NASM (former norm: MS) and tested to NAS 1332.

A standard program is available from stock (refer to article table). Delivery time for customer orders and dimensions not mentioned here currently 8 weeks. Please note the minimum order quantity of 20 pieces.

### Material

#### Pin ①

- Stainless steel, precipitation-hardened, passivated

#### Press bolt ②

- Stainless steel, precipitation-hardened, passivated

#### Spring ③

- Stainless steel, precipitation-hardened, passivated

#### Handle ④

- Aluminium, black anodised

#### Attaching ring ⑤

- Stainless steel, passivated

#### Ball ⑥

- Stainless steel, precipitation-hardened, passivated

### Operation

The balls are unlocked by pressing the knob.

### More information

### Notes

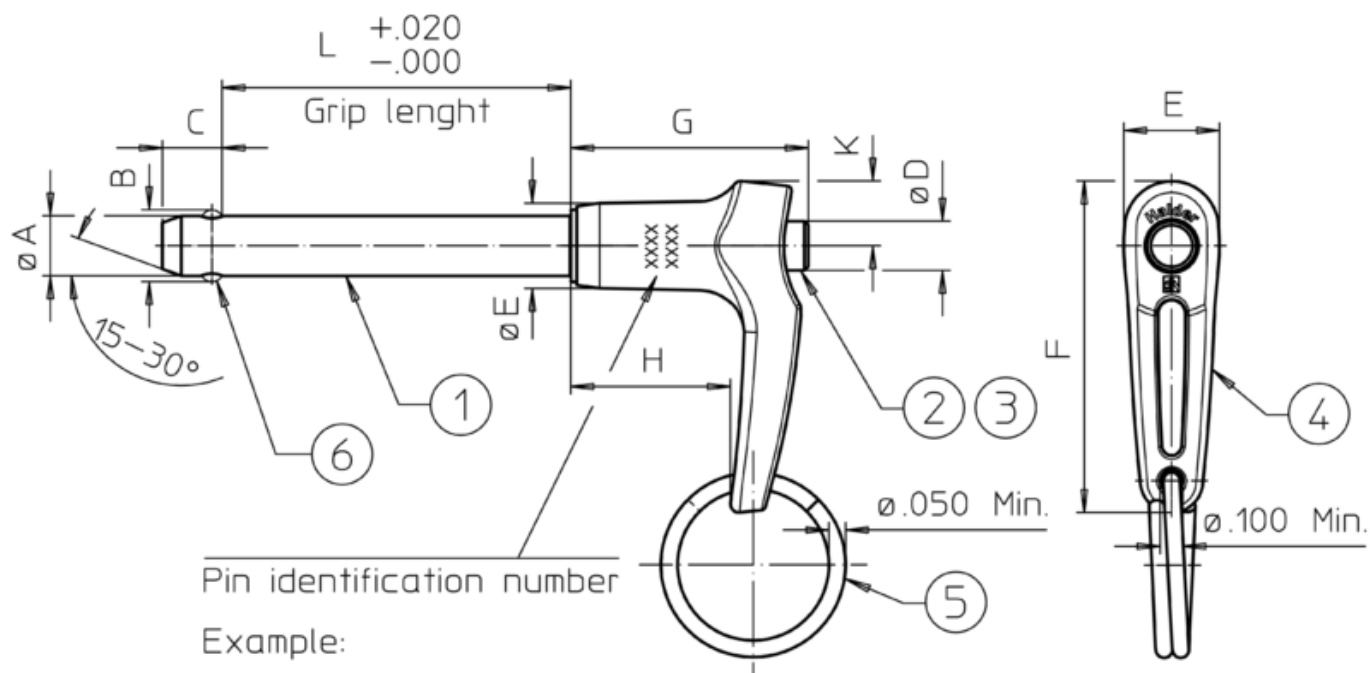
Special types on request.

All further dimensions are available on request.

### Further products

- Ball Lock Pins, self-locking, with L-handle
- Warning Streamers, according to NAS1756

## Drawing



Pin identification number

Example:

Basic standard number  
Material: "C" – Corrosion resistant steel pin  
Shank diameter in 1/16" (here: 4/16" = 1/4")  
Grip length in 1/10" (here: 12/10" = 1.2")  
MS17986C412  
EH 40.0130  
Production lot number  
Company identification

Ball positions may be different than shown in the drawing (rotation may be possible).

## Order information

| Nominal diameter<br>A | Clamping Length<br>L | Dimensions |               |      |       |      |      |      |      | Location hole max. | Shearing resistance, double <sup>1)</sup> min. | Temperature |      | Weight [g] | Art. No. |
|-----------------------|----------------------|------------|---------------|------|-------|------|------|------|------|--------------------|------------------------------------------------|-------------|------|------------|----------|
|                       |                      | B          | C             | D    | E     | F    | G    | H    | K    |                    |                                                | min.        | max. |            |          |
| [inch]                | [inch]               | ±0,005     | +0,1<br>-0,04 | max. | max.  | max. | max. | min. | max. | [inch]             | [lb]                                           | [°F]        |      |            |          |
| 3/8                   | 2                    | 0,44       | 0,365         | 0,39 | 0,625 | 2,03 | 1,45 | 0,85 | 0,39 | 0,379              | 20,700                                         | -22         | 302  | 65         | 4212.D20 |

<sup>1)</sup> Shearing resistance similar to DIN 50141

#### Application example





