

## Ball Lock Pins with T-handle• single acting - according to NASM / MS 17985

4211.D12



### 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

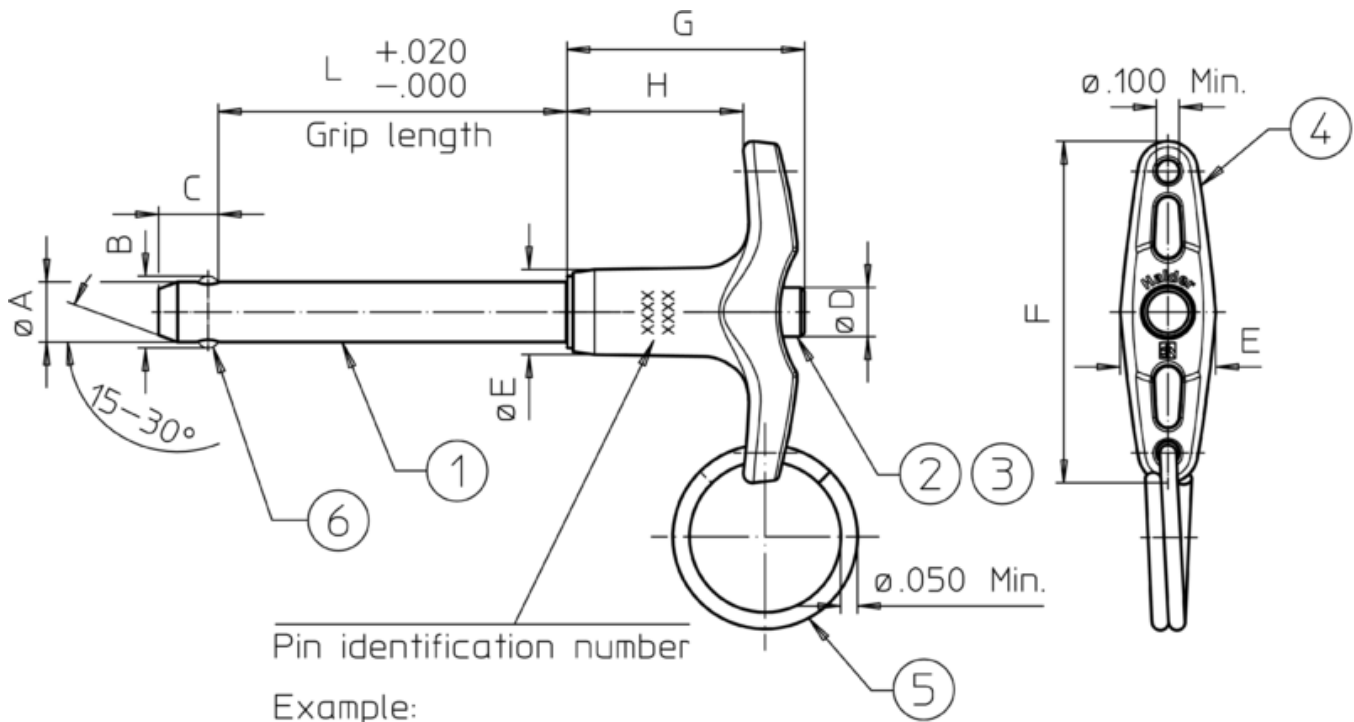
Special types on request.

All further dimensions are available on request.

### Further products

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

## Drawing



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")  
MS17985C412  
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<br>$+0,02$<br>0 | Dimensions       |                 |        |        |        |        |        | Location hole max. | Shearing resistance, double <sup>1)</sup> min. | min. max. |     | g   | Art. No. |
|-----------------------|--------------------------------------|------------------|-----------------|--------|--------|--------|--------|--------|--------------------|------------------------------------------------|-----------|-----|-----|----------|
|                       |                                      | B<br>$\pm 0,005$ | C<br>0<br>-0,04 | D max. | E max. | F max. | G max. | H min. |                    |                                                |           |     |     |          |
| [inch]                | [inch]                               |                  |                 |        | [inch] |        |        |        | [inch]             | [lb]                                           | [°F]      |     | [g] |          |
| 3/8                   | 1,2                                  | 0,44             | 0,365           | 0,39   | 0,625  | 2,065  | 1,45   | 0,85   | 0,379              | 20,700                                         | -22       | 302 | 55  | 4211.D12 |

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