

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

4211.D28

**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**

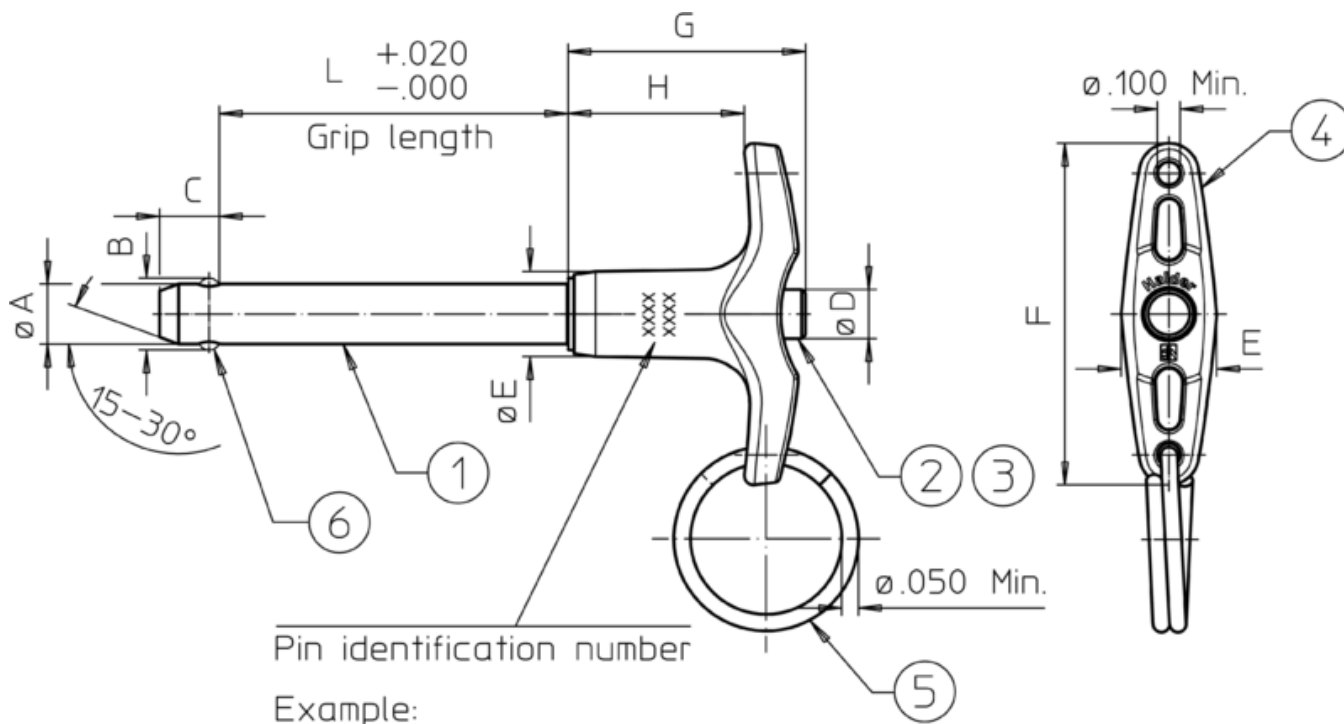
Special types on request.

All further dimensions are available on request.

**Further products**

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

# Drawing



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")  
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>±0,005 | C<br>0<br>-0,04 | D<br>max. | E<br>max. | F<br>max. | G<br>max. | H<br>min. |                    |                                                |           |     |     |          |
| [inch]                | [inch]                             |             |                 |           | [inch]    |           |           |           | [inch]             | [lb]                                           | [°F]      |     | [g] |          |
| 3/8                   | 2,8                                | 0,44        | 0,365           | 0,39      | 0,625     | 2,065     | 1,45      | 0,85      | 0,379              | 20,700                                         | -22       | 302 | 72  | 4211.D28 |

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