

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

4211.D31



### 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

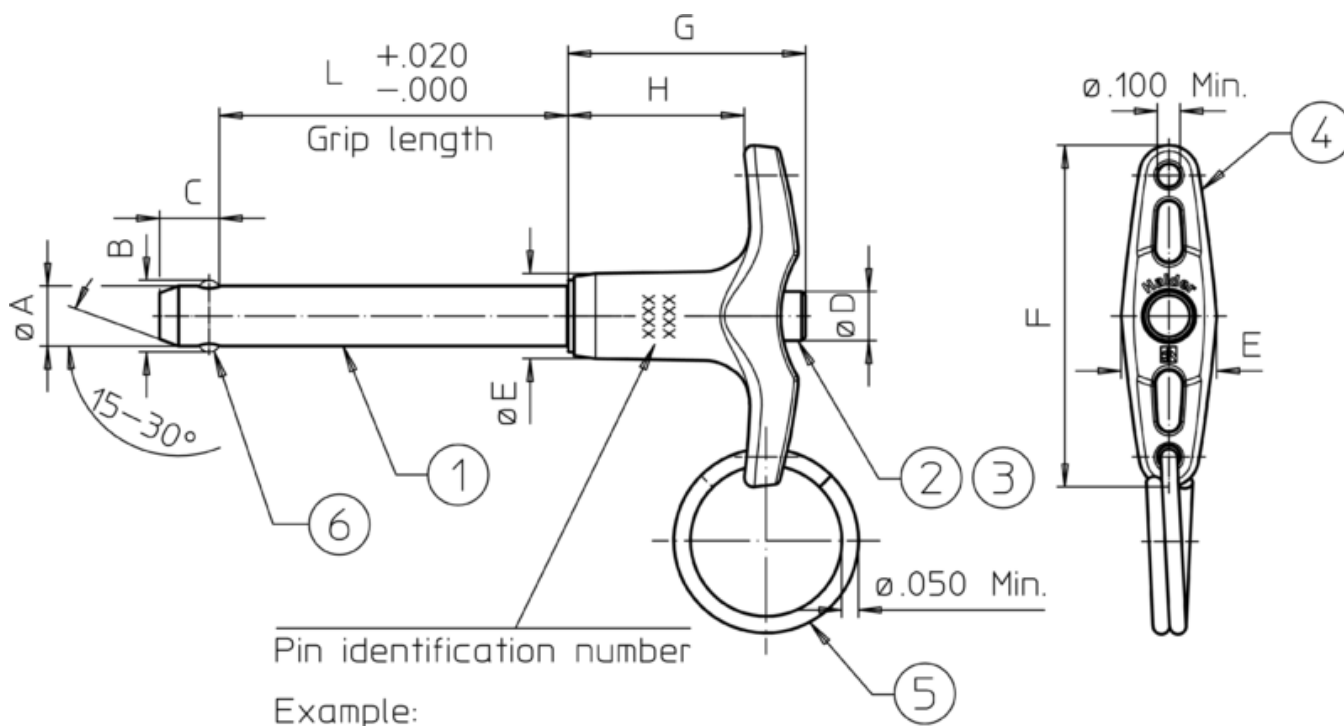
Special types on request.

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 A	Clamping Length L +0,02 0	Dimensions							Location hole max.	Shearing resistance, double <sup>1)</sup> min.	 min. max.			Art. No.
		B ±0,005	C 0 -0,04	D max.	E max.	F max.	G max.	H min.						
		[inch]	[inch]	[inch]							[inch]	[lb]		
3/8	3,1	0,44	0,365	0,39	0,625	2,065	1,45	0,85	0,379	20,700	-22	302	80	4211.D31

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