

Ball Lock Pins • single acting - comply with NASM / MS17987

4213.F33



**Product Description**

Ball Lock 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.

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

**Material**

- Pin ①**
  - Stainless steel, precipitation-hardened, passivated
- Press bolt ②**
  - Stainless steel, precipitation-hardened, passivated
- Spring ③**
  - Stainless steel, passivated
- Handle ④**
  - Stainless steel, passivated
- Attaching ring ⑤**
  - Stainless steel, passivated
- Ball ⑥**
  - Stainless steel, precipitation-hardened, passivated

**Operation**

The balls are unlocked by pressing the knob.

**More information**

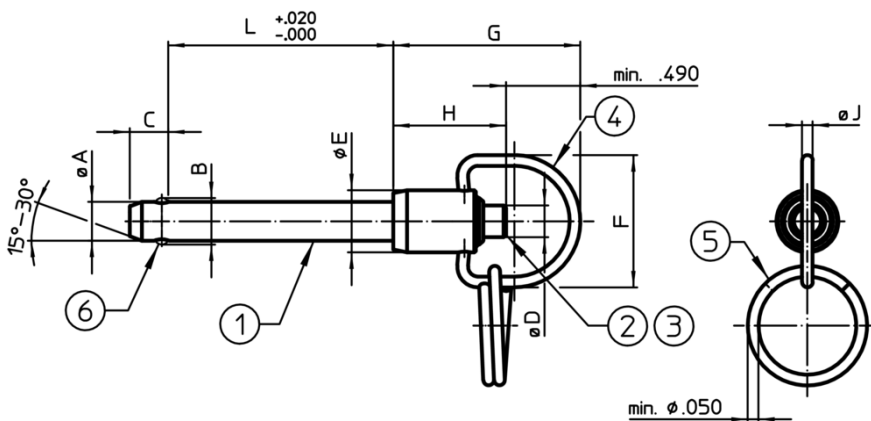
**Notes**

- Special types on request.
- All further dimensions are available on request.
- This product is manufactured in INCH dimensions.

**References**

A conversion table can be found in the technical data following these product information pages.

**Drawing**



**Order information**

Nominal diameter A	Dimensions											Location hole max.	Shearing resistance, two-shear min.	Temperature		Weight [g]	Standard	Art. No.
	A	A	Clamping length L	B	C	D	E	F	G	H	J			min.	max.			
	min.	max.		±0.005	0	max.	max.	min.	max.	min.	min.			min.	max.			
1/2	0.497	0.4985	3.3	0.594	0.46	0.565	0.8	1.16	1.85	1.14	0.08	0.505	36,900	-65	200	141	MS17987C833	4213.F33

## Compliance

### RoHS compliant

Compliant according to Directive 2011/65/EU and Directive 2015/863

### Does not contain SVHC substances

No SVHC substances with more than 0.1% w/w contained - SVHC list [REACH] as of 10.06.2022

### Does not contain Proposition 65 substances

No Proposition 65 substances included  
<https://www.P65Warnings.ca.gov/>

### Free from Conflict Minerals

This product does not contain any substances designated as "conflict minerals" such as tantalum, tin, gold or tungsten from the Democratic Republic of Congo or adjacent countries.