# Ball Lock Pins • single acting - comply with NAS / MS17985

4211.E31



# **Product Description**

Ball Lock Pins according to MS17985 / NAS1333-1343 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 MS / NAS and tested to NAS 1332.

Surface treatment:

- All stainless steel parts are passivated according AMS2700
- All alluminium parts alloy anodized according MIL-A-8625

Heat treatment:

- Body: Rc. 40 min. (AMS2759, Condition H900)
- Spindle: Rc. 40 min. (AMS2759, Condition H900)
- Ball: Rc. 58-62 min. (AMS2759)

#### Material

### **Body**

 Stainless steel, precipitation-hardened, passivated - CRES 17-4PH (specification AMS5643)

#### **Spindle**

 Stainless steel, precipitation-hardened, passivated - CRES 17-4PH (specification AMS5643)

#### **Spring**

 Stainless steel, passivated - CRES 302 (specification ASTM-A-313)

#### Handle

 Aluminium, black anodised - Alum.Alloy A380 (specification ASTM B85/B85)

#### Attaching ring

 Stainless steel, passivated - CRES 302 (specification ASTM A-313/A313M)

#### Press button

 Stainless steel, passivated - CRES 303 (specification ASTM A484/484M)

#### Ball

 Stainless steel, precipitation-hardened, passivated - CRES 440C (specification AMS5630)

### **Operation**

Ball lock pins single acting are self-locking and require a push of the button to release the balls.

#### More information

#### **Notes**

All further dimensions are available on request.

Other diameter / length combinations not listed which comply with the standard can be produced at short notice on customer request. Special types on request.

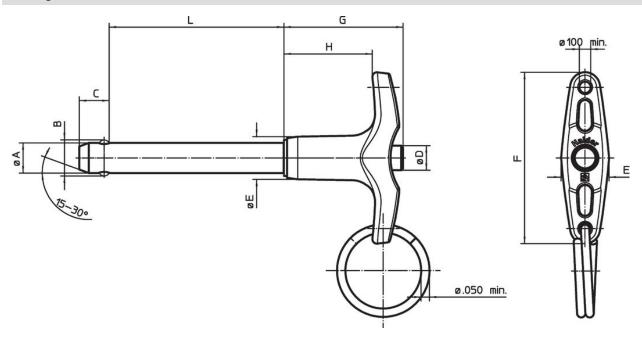
This product is manufactured in INCH dimensions.



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Page 1 of 2 Published on: 6.4.2024

# **Drawing**



### **Order information**

Nominal diameter A	A min.	A max.	Clamping length L +0.02	<b>B</b> ±0.005	<b>c</b> 0 -0.04	Dime D max.	E max.	F	<b>G</b> max.	H min.	Location hole max.	Shearing resistance, two-shear min.	min.	max.	ă	Standard description	Art. No.
[in]	[in]	[in]	[in]	[in]							[in]	[lbf]	[°F]		[g]		
7/16	0.4345	0.436	3.1	0.509	0.38	0.39	0.625	2.065	1.47	0.85	0.4425	28,500	-65	200	90.8	MS17985C731 / NAS1337A2C31D	4211.E31

# 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 23.01.2024.

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## **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.



www.halder.com Page 2 of 2

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