# Ball Lock Pins • single acting - comply with NAS / MS17984



# **Product Description**

Ball Lock Pins according to MS17984 / 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

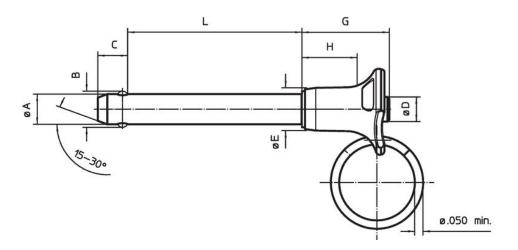
#### **Notes**

All further dimensions are available on request.

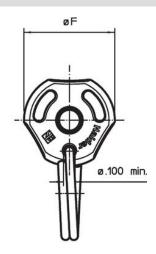
Other diameter / length combinations not listed which comply with the standard can be produced at short notice on customer request. Customized design on request.

This product is manufactured in INCH dimensions.

# **Drawing**



Erwin Halder KG





www.halder.com Page 1 of 2

Published on: 13.11.2024

#### **Order information**

Nominal diameter A	<b>A</b> min.	A max.	Clamping length L +0.02	B ±0.005	<b>C</b> 0 -0.04	D max.	ensio 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]		
3/16	0.187	0.1885	2.2	0.22	0.26	0.31	0.44	0.8	0.83	0.48	0.194	5,150	-65	200	19.5	MS17984C322 / NAS1333A3C22E	1421N A221

# 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 27.06.2024.

#### 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.



Erwin Halder KG

Page 2 of 2 Published on: 13.11.2024

www.halder.com