Ball Lock Pins • single acting - comply with NASM / MS17987 EH 4213.

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

Body
- Stainless steel, precipitation-hardened, passivated

Spindle
- Stainless steel, precipitation-hardened, passivated

Spring
- Stainless steel, passivated

Handle
- Stainless steel, passivated

Attaching ring
- Stainless steel, passivated

Press button
- Stainless steel, passivated

Ball
- Stainless steel, precipitation-hardened, passivated

Operation

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

More information

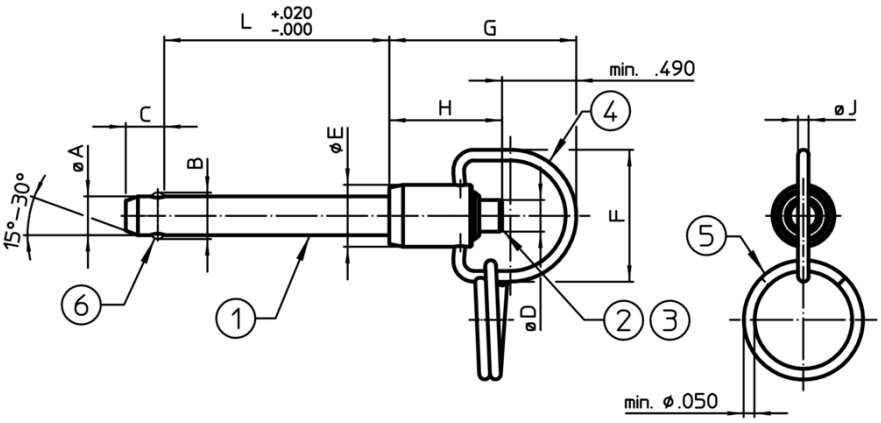
Notes

All further dimensions are available on request.
Special types 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 A min.	A max.	Clamping length L +0.02 0	B ±0.005	C 0 -0.04	D max.	E max.	F min.	G max.	H min.	J min.	Location hole max.	Shearing resistance, two-shear min.	min.	max.		Standard description	Art. No.
	[inch]											[inch]	[lbf]	[°F]		[g]		
3/16	0.1870	0.1885	**0.3**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	20	**MS17987C303**	4213.A03
3/16	0.1870	0.1885	**0.5**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	21	**MS17987C305**	4213.A05
3/16	0.1870	0.1885	**0.6**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	22	**MS17987C306**	4213.A06
3/16	0.1870	0.1885	**0.7**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	23	**MS17987C307**	4213.A07
3/16	0.1870	0.1885	**0.8**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	24	**MS17987C308**	4213.A08
3/16	0.1870	0.1885	**0.9**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	24	**MS17987C309**	4213.A09
3/16	0.1870	0.1885	**1.0**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	24	**MS17987C310**	4213.A10

Nominal diameter A	Dimensions A min.	A max.	Clamping length L +0.02 0	B ±0.005	C 0 -0.04	D max.	E max.	F min.	G max.	H min.	J min.	Location hole max.	Shearing resistance, two-shear min.	min.	max.		Standard description	Art. No.
	[inch]											[inch]	[lbf]	[°F]		[g]		
3/16	0.1870	0.1885	**1.1**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	25	**MS17987C311**	**4213.A11**
3/16	0.1870	0.1885	**1.2**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	25	**MS17987C312**	**4213.A12**
3/16	0.1870	0.1885	**1.3**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	25	**MS17987C313**	**4213.A13**
3/16	0.1870	0.1885	**1.4**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	26	**MS17987C314**	**4213.A14**
3/16	0.1870	0.1885	**1.5**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	26	**MS17987C315**	**4213.A15**
3/16	0.1870	0.1885	**1.6**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	26	**MS17987C316**	**4213.A16**
3/16	0.1870	0.1885	**1.7**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	27	**MS17987C317**	**4213.A17**
3/16	0.1870	0.1885	**1.8**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	28	**MS17987C318**	**4213.A18**
3/16	0.1870	0.1885	**2.0**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	28	**MS17987C320**	**4213.A20**
3/16	0.1870	0.1885	**2.2**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	29	**MS17987C322**	**4213.A22**
3/16	0.1870	0.1885	**2.3**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	29	**MS17987C323**	**4213.A23**
3/16	0.1870	0.1885	**2.5**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	29	**MS17987C325**	**4213.A25**
3/16	0.1870	0.1885	**2.6**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	30	**MS17987C326**	**4213.A26**
3/16	0.1870	0.1885	**3.1**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	33	**MS17987C331**	**4213.A31**
3/16	0.1870	0.1885	**3.4**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	34	**MS17987C334**	**4213.A34**
3/16	0.1870	0.1885	**4.0**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	35	**MS17987C340**	**4213.A40**
3/16	0.1870	0.1885	**4.3**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	36	**MS17987C343**	**4213.A43**
3/16	0.1870	0.1885	**4.5**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	–	**MS17987C345**	**4213.A45**
3/16	0.1870	0.1885	**4.6**	0.220	0.260	0.310	0.53	1.06	1.45	0.73	0.08	0.1940	5,150	-65	200	–	**MS17987C346**	**4213.A46**
1/4	0.2470	0.2485	**0.3**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	23	**MS17987C403**	**4213.B03**
1/4	0.2470	0.2485	**0.4**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	24	**MS17987C404**	**4213.B04**
1/4	0.2470	0.2485	**0.5**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	25	**MS17987C405**	**4213.B05**
1/4	0.2470	0.2485	**0.6**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	25	**MS17987C406**	**4213.B06**
1/4	0.2470	0.2485	**0.7**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	26	**MS17987C407**	**4213.B07**
1/4	0.2470	0.2485	**0.8**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	25	**MS17987C408**	**4213.B08**
1/4	0.2470	0.2485	**0.9**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	27	**MS17987C409**	**4213.B09**
1/4	0.2470	0.2485	**1.0**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	26	**MS17987C410**	**4213.B10**
1/4	0.2470	0.2485	**1.1**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	28	**MS17987C411**	**4213.B11**
1/4	0.2470	0.2485	**1.2**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	29	**MS17987C412**	**4213.B12**
1/4	0.2470	0.2485	**1.3**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	30	**MS17987C413**	**4213.B13**
1/4	0.2470	0.2485	**1.4**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	30	**MS17987C414**	**4213.B14**
1/4	0.2470	0.2485	**1.5**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	31	**MS17987C415**	**4213.B15**
1/4	0.2470	0.2485	**1.6**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	31	**MS17987C416**	**4213.B16**
1/4	0.2470	0.2485	**1.7**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	32	**MS17987C417**	**4213.B17**
1/4	0.2470	0.2485	**1.8**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	32	**MS17987C418**	**4213.B18**
1/4	0.2470	0.2485	**1.9**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	33	**MS17987C419**	**4213.B19**
1/4	0.2470	0.2485	**2.0**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	32	**MS17987C420**	**4213.B20**
1/4	0.2470	0.2485	**2.1**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	34	**MS17987C421**	**4213.B21**
1/4	0.2470	0.2485	**2.2**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	35	**MS17987C422**	**4213.B22**
1/4	0.2470	0.2485	**2.3**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	35	**MS17987C423**	**4213.B23**
1/4	0.2470	0.2485	**2.4**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	36	**MS17987C424**	**4213.B24**
1/4	0.2470	0.2485	**2.5**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	35	**MS17987C425**	**4213.B25**
1/4	0.2470	0.2485	**2.6**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	37	**MS17987C426**	**4213.B26**
1/4	0.2470	0.2485	**2.7**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	38	**MS17987C427**	**4213.B27**
1/4	0.2470	0.2485	**2.8**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	39	**MS17987C428**	**4213.B28**
1/4	0.2470	0.2485	**2.9**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	40	**MS17987C429**	**4213.B29**
1/4	0.2470	0.2485	**3.0**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	39	**MS17987C430**	**4213.B30**
1/4	0.2470	0.2485	**3.2**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	41	**MS17987C432**	**4213.B32**
1/4	0.2470	0.2485	**3.5**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	39	**MS17987C435**	**4213.B35**
1/4	0.2470	0.2485	**3.6**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	39	**MS17987C436**	**4213.B36**
1/4	0.2470	0.2485	**4.0**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	46	**MS17987C440**	**4213.B40**
1/4	0.2470	0.2485	**4.2**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	47	**MS17987C442**	**4213.B42**
1/4	0.2470	0.2485	**4.3**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	48	**MS17987C443**	**4213.B43**
1/4	0.2470	0.2485	**4.7**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	50	**MS17987C447**	**4213.B47**
1/4	0.2470	0.2485	**5.4**	0.289	0.290	0.310	0.53	1.06	1.50	0.78	0.08	0.2540	9,200	-65	200	–	**MS17987C454**	**4213.B54**
5/16	0.3095	0.3110	**0.5**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	30	**MS17987C505**	**4213.C05**
5/16	0.3095	0.3110	**0.6**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	30	**MS17987C506**	**4213.C06**
5/16	0.3095	0.3110	**0.7**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	31	**MS17987C507**	**4213.C07**

Nominal diameter A	Dimensions A min.	A max.	Clamping length L +0.02 0	B ±0.005	C 0 -0.04	D max.	E max.	F min.	G max.	H min.	J min.	Location hole max.	Shearing resistance, two-shear min.	min.	max.		Standard description	Art. No.
	[inch]											[inch]	[lbf]	[°F]		[g]		
5/16	0.3095	0.3110	**0.8**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	33	**MS17987C508**	4213.C08
5/16	0.3095	0.3110	**0.9**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	33	**MS17987C509**	4213.C09
5/16	0.3095	0.3110	**1.0**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	34	**MS17987C510**	4213.C10
5/16	0.3095	0.3110	**1.1**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	33	**MS17987C511**	4213.C11
5/16	0.3095	0.3110	**1.2**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	36	**MS17987C512**	4213.C12
5/16	0.3095	0.3110	**1.3**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	37	**MS17987C513**	4213.C13
5/16	0.3095	0.3110	**1.4**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	38	**MS17987C514**	4213.C14
5/16	0.3095	0.3110	**1.5**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	39	**MS17987C515**	4213.C15
5/16	0.3095	0.3110	**1.6**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	40	**MS17987C516**	4213.C16
5/16	0.3095	0.3110	**1.7**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	41	**MS17987C517**	4213.C17
5/16	0.3095	0.3110	**1.8**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	40	**MS17987C518**	4213.C18
5/16	0.3095	0.3110	**1.9**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	43	**MS17987C519**	4213.C19
5/16	0.3095	0.3110	**2.0**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	43	**MS17987C520**	4213.C20
5/16	0.3095	0.3110	**2.1**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	44	**MS17987C521**	4213.C21
5/16	0.3095	0.3110	**2.2**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	45	**MS17987C522**	4213.C22
5/16	0.3095	0.3110	**2.3**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	46	**MS17987C523**	4213.C23
5/16	0.3095	0.3110	**2.5**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	46	**MS17987C525**	4213.C25
5/16	0.3095	0.3110	**2.6**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	48	**MS17987C526**	4213.C26
5/16	0.3095	0.3110	**2.9**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	53	**MS17987C529**	4213.C29
5/16	0.3095	0.3110	**3.0**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	54	**MS17987C530**	4213.C30
5/16	0.3095	0.3110	**3.2**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	56	**MS17987C532**	4213.C32
5/16	0.3095	0.3110	**3.3**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	57	**MS17987C533**	4213.C33
5/16	0.3095	0.3110	**3.4**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	56	**MS17987C534**	4213.C34
5/16	0.3095	0.3110	**3.5**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	58	**MS17987C535**	4213.C35
5/16	0.3095	0.3110	**3.6**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	59	**MS17987C536**	4213.C36
5/16	0.3095	0.3110	**3.9**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	–	**MS17987C539**	4213.C39
5/16	0.3095	0.3110	**4.0**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	–	**MS17987C540**	4213.C40
5/16	0.3095	0.3110	**4.9**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	–	**MS17987C549**	4213.C49
5/16	0.3095	0.3110	**6.0**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	85	**MS17987C560**	4213.C60
5/16	0.3095	0.3110	**6.7**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	92	**MS17987C567**	4213.C67
5/16	0.3095	0.3110	**6.9**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	94	**MS17987C569**	4213.C69
5/16	0.3095	0.3110	**7.0**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	–	**MS17987C570**	4213.C70
5/16	0.3095	0.3110	**7.1**	0.375	0.330	0.310	0.59	1.06	1.65	0.83	0.08	0.3165	14,400	-65	200	–	**MS17987C571**	4213.C71
3/8	0.3720	0.3735	**0.5**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	46	**MS17987C605**	4213.D05
3/8	0.3720	0.3735	**0.6**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	47	**MS17987C606**	4213.D06
3/8	0.3720	0.3735	**0.8**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	49	**MS17987C608**	4213.D08
3/8	0.3720	0.3735	**0.9**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	50	**MS17987C609**	4213.D09
3/8	0.3720	0.3735	**1.0**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	51	**MS17987C610**	4213.D10
3/8	0.3720	0.3735	**1.1**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	53	**MS17987C611**	4213.D11
3/8	0.3720	0.3735	**1.2**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	52	**MS17987C612**	4213.D12
3/8	0.3720	0.3735	**1.3**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	54	**MS17987C613**	4213.D13
3/8	0.3720	0.3735	**1.4**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	55	**MS17987C614**	4213.D14
3/8	0.3720	0.3735	**1.5**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	58	**MS17987C615**	4213.D15
3/8	0.3720	0.3735	**1.6**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	59	**MS17987C616**	4213.D16
3/8	0.3720	0.3735	**1.7**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	61	**MS17987C617**	4213.D17
3/8	0.3720	0.3735	**1.8**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	62	**MS17987C618**	4213.D18
3/8	0.3720	0.3735	**1.9**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	63	**MS17987C619**	4213.D19
3/8	0.3720	0.3735	**2.0**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	64	**MS17987C620**	4213.D20
3/8	0.3720	0.3735	**2.2**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	66	**MS17987C622**	4213.D22
3/8	0.3720	0.3735	**2.3**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	67	**MS17987C623**	4213.D23
3/8	0.3720	0.3735	**2.4**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	68	**MS17987C624**	4213.D24
3/8	0.3720	0.3735	**2.5**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	69	**MS17987C625**	4213.D25
3/8	0.3720	0.3735	**2.6**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	71	**MS17987C626**	4213.D26
3/8	0.3720	0.3735	**2.8**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	76	**MS17987C628**	4213.D28
3/8	0.3720	0.3735	**2.9**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	78	**MS17987C629**	4213.D29
3/8	0.3720	0.3735	**3.0**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	80	**MS17987C630**	4213.D30
3/8	0.3720	0.3735	**3.1**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	82	**MS17987C631**	4213.D31
3/8	0.3720	0.3735	**3.3**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	86	**MS17987C633**	4213.D33

Nominal diameter A	Dimensions A min.	A max.	Clamping length L +0.02 0	B ±0.005	C 0 -0.04	D max.	E max.	F min.	G max.	H min.	J min.	Location hole max.	Shearing resistance, two-shear min.	min.	max.		Standard description	Art. No.
	[inch]											[inch]	[lbf]	[°F]		[g]		
3/8	0.3720	0.3735	**3.4**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	87	**MS17987C634**	**4213.D34**
3/8	0.3720	0.3735	**3.5**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	88	**MS17987C635**	**4213.D35**
3/8	0.3720	0.3735	**3.6**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	89	**MS17987C636**	**4213.D36**
3/8	0.3720	0.3735	**3.9**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	90	**MS17987C639**	**4213.D39**
3/8	0.3720	0.3735	**4.0**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	91	**MS17987C640**	**4213.D40**
3/8	0.3720	0.3735	**4.1**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	93	**MS17987C640**	**4213.D41**
3/8	0.3720	0.3735	**4.3**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	97	**MS17987C643**	**4213.D43**
3/8	0.3720	0.3735	**5.0**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	–	**MS17987C650**	**4213.D50**
3/8	0.3720	0.3735	**7.0**	0.440	0.365	0.390	0.65	1.06	1.65	0.94	0.08	0.3790	20,700	-65	200	–	**MS17987C670**	**4213.D70**
7/16	0.4345	0.4360	**0.6**	0.509	0.380	0.390	0.71	1.09	1.85	0.98	0.08	0.4425	28,500	-65	200	55	**MS17987C706**	**4213.E06**
7/16	0.4345	0.4360	**0.8**	0.509	0.380	0.390	0.71	1.09	1.85	0.98	0.08	0.4425	28,500	-65	200	58	**MS17987C708**	**4213.E08**
7/16	0.4345	0.4360	**1.0**	0.509	0.380	0.390	0.71	1.09	1.85	0.98	0.08	0.4425	28,500	-65	200	61	**MS17987C710**	**4213.E10**
7/16	0.4345	0.4360	**1.2**	0.509	0.380	0.390	0.71	1.09	1.85	0.98	0.08	0.4425	28,500	-65	200	65	**MS17987C712**	**4213.E12**
7/16	0.4345	0.4360	**1.3**	0.509	0.380	0.390	0.71	1.09	1.85	0.98	0.08	0.4425	28,500	-65	200	67	**MS17987C713**	**4213.E13**
7/16	0.4345	0.4360	**1.4**	0.509	0.380	0.390	0.71	1.09	1.85	0.98	0.08	0.4425	28,500	-65	200	68	**MS17987C714**	**4213.E14**
7/16	0.4345	0.4360	**1.5**	0.509	0.380	0.390	0.71	1.09	1.85	0.98	0.08	0.4425	28,500	-65	200	70	**MS17987C715**	**4213.E15**
7/16	0.4345	0.4360	**1.6**	0.509	0.380	0.390	0.71	1.09	1.85	0.98	0.08	0.4425	28,500	-65	200	72	**MS17987C716**	**4213.E16**
7/16	0.4345	0.4360	**1.9**	0.509	0.380	0.390	0.71	1.09	1.85	0.98	0.08	0.4425	28,500	-65	200	78	**MS17987C719**	**4213.E19**
7/16	0.4345	0.4360	**2.0**	0.509	0.380	0.390	0.71	1.09	1.85	0.98	0.08	0.4425	28,500	-65	200	81	**MS17987C720**	**4213.E20**
7/16	0.4345	0.4360	**2.1**	0.509	0.380	0.390	0.71	1.09	1.85	0.98	0.08	0.4425	28,500	-65	200	82	**MS17987C721**	**4213.E21**
7/16	0.4345	0.4360	**2.2**	0.509	0.380	0.390	0.71	1.09	1.85	0.98	0.08	0.4425	28,500	-65	200	83	**MS17987C722**	**4213.E22**
7/16	0.4345	0.4360	**2.4**	0.509	0.380	0.390	0.71	1.09	1.85	0.98	0.08	0.4425	28,500	-65	200	88	**MS17987C724**	**4213.E24**
7/16	0.4345	0.4360	**2.5**	0.509	0.380	0.390	0.71	1.09	1.85	0.98	0.08	0.4425	28,500	-65	200	90	**MS17987C725**	**4213.E25**
7/16	0.4345	0.4360	**2.6**	0.509	0.380	0.390	0.71	1.09	1.85	0.98	0.08	0.4425	28,500	-65	200	91	**MS17987C726**	**4213.E26**
7/16	0.4345	0.4360	**2.8**	0.509	0.380	0.390	0.71	1.09	1.85	0.98	0.08	0.4425	28,500	-65	200	95	**MS17987C728**	**4213.E28**
7/16	0.4345	0.4360	**3.0**	0.509	0.380	0.390	0.71	1.09	1.85	0.98	0.08	0.4425	28,500	-65	200	99	**MS17987C730**	**4213.E30**
7/16	0.4345	0.4360	**3.2**	0.509	0.380	0.390	0.71	1.09	1.85	0.98	0.08	0.4425	28,500	-65	200	102	**MS17987C732**	**4213.E32**
7/16	0.4345	0.4360	**5.5**	0.509	0.380	0.390	0.71	1.09	1.85	0.98	0.08	0.4425	28,500	-65	200	–	**MS17987C755**	**4213.E55**
1/2	0.4970	0.4985	**0.8**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	85	**MS17987C808**	**4213.F08**
1/2	0.4970	0.4985	**0.9**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	86	**MS17987C809**	**4213.F09**
1/2	0.4970	0.4985	**1.0**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	87	**MS17987C810**	**4213.F10**
1/2	0.4970	0.4985	**1.1**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	88	**MS17987C811**	**4213.F11**
1/2	0.4970	0.4985	**1.2**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	89	**MS17987C812**	**4213.F12**
1/2	0.4970	0.4985	**1.3**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	93	**MS17987C813**	**4213.F13**
1/2	0.4970	0.4985	**1.4**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	94	**MS17987C814**	**4213.F14**
1/2	0.4970	0.4985	**1.5**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	98	**MS17987C815**	**4213.F15**
1/2	0.4970	0.4985	**1.6**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	100	**MS17987C816**	**4213.F16**
1/2	0.4970	0.4985	**1.8**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	104	**MS17987C818**	**4213.F18**
1/2	0.4970	0.4985	**1.9**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	106	**MS17987C819**	**4213.F19**
1/2	0.4970	0.4985	**2.0**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	109	**MS17987C820**	**4213.F20**
1/2	0.4970	0.4985	**2.1**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	112	**MS17987C821**	**4213.F21**
1/2	0.4970	0.4985	**2.3**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	117	**MS17987C823**	**4213.F23**
1/2	0.4970	0.4985	**2.5**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	119	**MS17987C825**	**4213.F25**
1/2	0.4970	0.4985	**2.8**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	–	**MS17987C828**	**4213.F28**
1/2	0.4970	0.4985	**2.9**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	–	**MS17987C829**	**4213.F29**
1/2	0.4970	0.4985	**3.0**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	–	**MS17987C830**	**4213.F30**
1/2	0.4970	0.4985	**3.1**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	–	**MS17987C831**	**4213.F31**
1/2	0.4970	0.4985	**3.3**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	141	**MS17987C833**	**4213.F33**
1/2	0.4970	0.4985	**3.4**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	144	**MS17987C834**	**4213.F34**
1/2	0.4970	0.4985	**3.5**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	146	**MS17987C835**	**4213.F35**
1/2	0.4970	0.4985	**3.7**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	154	**MS17987C837**	**4213.F37**
1/2	0.4970	0.4985	**3.9**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	160	**MS17987C839**	**4213.F39**
1/2	0.4970	0.4985	**4.0**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	163	**MS17987C840**	**4213.F40**
1/2	0.4970	0.4985	**4.2**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	169	**MS17987C842**	**4213.F42**
1/2	0.4970	0.4985	**4.4**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	175	**MS17987C844**	**4213.F44**
1/2	0.4970	0.4985	**4.5**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	160	**MS17987C845**	**4213.F45**
1/2	0.4970	0.4985	**4.6**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	178	**MS17987C846**	**4213.F46**
1/2	0.4970	0.4985	**4.8**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	180	**MS17987C848**	**4213.F48**

Nominal diameter A	Dimensions A min.	A max.	Clamping length L +0.02 0	B ±0.005	C 0 -0.04	D max.	E max.	F min.	G max.	H min.	J min.	Location hole max.	Shearing resistance, two-shear min.	min.	max.		Standard description	Art. No.
	[inch]											[inch]	[lbf]	[°F]		[g]		
1/2	0.4970	0.4985	**5.0**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	186	**MS17987C850**	**4213.F50**
1/2	0.4970	0.4985	**5.3**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	193	**MS17987C853**	**4213.F53**
1/2	0.4970	0.4985	**5.5**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	199	**MS17987C855**	**4213.F55**
1/2	0.4970	0.4985	**5.8**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	207	**MS17987C858**	**4213.F58**
1/2	0.4970	0.4985	**6.5**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	215	**MS17987C865**	**4213.F65**
1/2	0.4970	0.4985	**8.0**	0.594	0.460	0.565	0.80	1.16	1.85	1.14	0.08	0.5050	36,900	-65	200	263	**MS17987C880**	**4213.F80**
9/16	0.5595	0.5610	**1.0**	0.666	0.510	0.565	0.84	1.16	2.03	1.14	0.08	0.5675	46,700	-65	200	105	**MS17987C910**	**4213.G10**
9/16	0.5595	0.5610	**1.2**	0.666	0.510	0.565	0.84	1.16	2.03	1.14	0.08	0.5675	46,700	-65	200	110	**MS17987C912**	**4213.G12**
9/16	0.5595	0.5610	**1.3**	0.666	0.510	0.565	0.84	1.16	2.03	1.14	0.08	0.5675	46,700	-65	200	113	**MS17987C913**	**4213.G13**
9/16	0.5595	0.5610	**1.5**	0.666	0.510	0.565	0.84	1.16	2.03	1.14	0.08	0.5675	46,700	-65	200	–	**MS17987C915**	**4213.G15**
9/16	0.5595	0.5610	**2.0**	0.666	0.510	0.565	0.84	1.16	2.03	1.14	0.08	0.5675	46,700	-65	200	–	**MS17987C920**	**4213.G20**
9/16	0.5595	0.5610	**2.2**	0.666	0.510	0.565	0.84	1.16	2.03	1.14	0.08	0.5675	46,700	-65	200	–	**MS17987C922**	**4213.G22**
9/16	0.5595	0.5610	**2.5**	0.666	0.510	0.565	0.84	1.16	2.03	1.14	0.08	0.5675	46,700	-65	200	150	**MS17987C925**	**4213.G25**
9/16	0.5595	0.5610	**2.7**	0.666	0.510	0.565	0.84	1.16	2.03	1.14	0.08	0.5675	46,700	-65	200	156	**MS17987C927**	**4213.G27**
9/16	0.5595	0.5610	**2.8**	0.666	0.510	0.565	0.84	1.16	2.03	1.14	0.08	0.5675	46,700	-65	200	159	**MS17987C928**	**4213.G28**
9/16	0.5595	0.5610	**3.0**	0.666	0.510	0.565	0.84	1.16	2.03	1.14	0.08	0.5675	46,700	-65	200	166	**MS17987C930**	**4213.G30**
9/16	0.5595	0.5610	**3.7**	0.666	0.510	0.565	0.84	1.16	2.03	1.14	0.08	0.5675	46,700	-65	200	187	**MS17987C937**	**4213.G37**
9/16	0.5595	0.5610	**4.2**	0.666	0.510	0.565	0.84	1.16	2.03	1.14	0.08	0.5675	46,700	-65	200	–	**MS17987C942**	**4213.G42**
9/16	0.5595	0.5610	**5.5**	0.666	0.510	0.565	0.84	1.16	2.03	1.14	0.08	0.5675	46,700	-65	200	245	**MS17987C955**	**4213.G55**
9/16	0.5595	0.5610	**6.5**	0.666	0.510	0.565	0.84	1.16	2.03	1.14	0.08	0.5675	46,700	-65	200	–	**MS17987C965**	**4213.G65**

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.