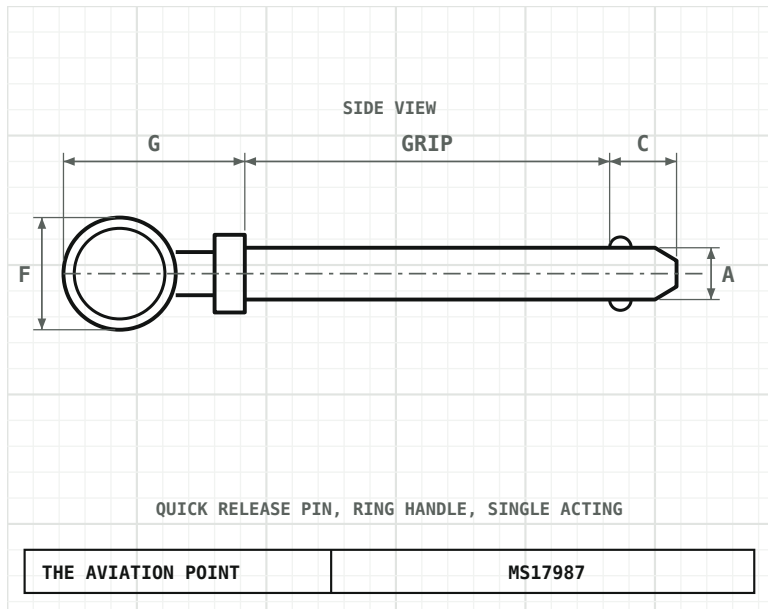
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MS17987 — quick release pin, ring handle, single acting (now NASM17987)

MS17987: single acting, self-retaining quick release pin with ring handle, 3/16 to 1 diameter.



Engineering drawing · dimensions in inches

Specification

Item	Value
Current standard	NASM17987 (part numbers unchanged)
Type	Quick release pin, ring handle
Material	Shank and spindle: corrosion-resistant steel 17-4PH (AMS 5643, condition H-900) or PH15-7Mo (AMS 5520 or AMS 5657, condition CH-900), Rockwell C40 min; locking elements: CRES 440C (AMS 5630 or AMS 5880); handle and button: CRES 303 or aluminum alloy 380, 2011, 2017 or 2024 (6061-T6 for buttons only); collar: CRES 301, 302, 303 or 304; handle ring, spring and attaching ring or link: CRES 17-7PH (AMS 5678) or CRES 302
Finish	CRES parts passivated (QQ-P-35); aluminum alloy parts anodized (MIL-A-8625, Type I or II, Class 2) or chemical film (MIL-C-5541, Class 1A); handles black
Status	Check the current issue before design use. Cancelled by Notice 1 (Dec 1998) and superseded by NASM17987; the notice states the part numbers are identical.

Dimensions by size

Dimension, in	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1
A max — A dia, max	—	.2485	—	.3735	.4360	.4985	.5610	.6235	.7485	.8735	.9985
A min — A dia, min	—	.2470	—	.3720	.4345	.4970	.5595	.6220	.7470	.8720	—
B — B dia, ±.005	—	.289	.375	.440	.509	.594	.666	.750	.887	1.046	—
C — C, +.000 -.040	—	—	.330	.365	—	.460	.510	.580	.670	.760	.890
D max — D dia, max	—	—	—	.390	.390	.565	.565	.580	.700	.840	—
D min — D dia, min	—	—	.250	.300	.300	.435	.435	.450	.570	.700	.750
E max — E dia, max	.530	.570	.590	.650	.710	.800	.840	.905	1.045	1.235	1.330
E min — E dia, min	.310	.310	.410	.450	.550	.600	.680	.750	.865	.980	1.175
F min — F dia, min	1.060	1.060	1.060	1.060	1.090	1.160	1.160	1.240	1.640	1.640	1.640
G — G, max	—	1.500	1.650	1.650	1.850	1.850	2.030	2.250	2.650	3.000	—
H — H, min	.730	.780	.830	.940	.980	1.140	1.140	1.400	1.625	1.875	2.000
J — J, min	.080	—	.080	.080	.080	.080	.080	.120	.120	.120	.120
Double shear, min, lb	5150	—	—	20600	28000	36800	46000	57500	82500	112500	147000
Tensile strength, lb	200	230	510	575	710	1160	—	2070	2950	3900	5480

Dimensions in inches, as tabulated in the standard (letters as on its drawing). Loads in pounds.

Showing 14 of 16 rows. Complete table: theaviationpoint.com/parts/pins/ms17987/

Part numbers

3/16 97 part numbers

Part no.	Grip, in
MS17987C303	.300
MS17987C304	.400
MS17987C305	.500
MS17987C306	.600
MS17987C307	.700
MS17987C308	.800
MS17987C309	.900
MS17987C310	1.000
MS17987C311	1.100
MS17987C312	1.200
MS17987C313	1.300
MS17987C314	1.400
MS17987C315	1.500
MS17987C316	1.600

1/4 97 part numbers

Part no.	Grip, in
MS17987C403	.300
MS17987C404	.400
MS17987C405	.500
MS17987C406	.600
MS17987C407	.700
MS17987C408	.800
MS17987C409	.900
MS17987C410	1.000
MS17987C411	1.100
MS17987C412	1.200
MS17987C413	1.300
MS17987C414	1.400
MS17987C415	1.500
MS17987C416	1.600

5/16 97 part numbers

Part no.	Grip, in
MS17987C503	.300
MS17987C504	.400
MS17987C505	.500
MS17987C506	.600
MS17987C507	.700
MS17987C508	.800
MS17987C509	.900
MS17987C510	1.000
MS17987C511	1.100
MS17987C512	1.200
MS17987C513	1.300
MS17987C514	1.400
MS17987C515	1.500
MS17987C516	1.600

Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.

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3/8 95 part numbers

Part no.	Grip, in
MS17987C605	.500
MS17987C606	.600
MS17987C607	.700
MS17987C608	.800
MS17987C609	.900
MS17987C610	1.000
MS17987C611	1.100
MS17987C612	1.200
MS17987C613	1.300
MS17987C614	1.400
MS17987C615	1.500
MS17987C616	1.600
MS17987C617	1.700
MS17987C618	1.800

9/16 93 part numbers

Part no.	Grip, in
MS17987C907	.700
MS17987C908	.800
MS17987C909	.900
MS17987C910	1.000
MS17987C911	1.100
MS17987C912	1.200
MS17987C913	1.300
MS17987C914	1.400
MS17987C915	1.500
MS17987C916	1.600
MS17987C917	1.700
MS17987C918	1.800
MS17987C919	1.900
MS17987C920	2.000

7/8 90 part numbers

Part no.	Grip, in
MS17987C1410	1.000
MS17987C1411	1.100
MS17987C1412	1.200
MS17987C1413	1.300
MS17987C1414	1.400
MS17987C1415	1.500
MS17987C1416	1.600
MS17987C1417	1.700
MS17987C1418	1.800
MS17987C1419	1.900
MS17987C1420	2.000
MS17987C1421	2.100
MS17987C1422	2.200
MS17987C1423	2.300

7/16 95 part numbers

Part no.	Grip, in
MS17987C705	.500
MS17987C706	.600
MS17987C707	.700
MS17987C708	.800
MS17987C709	.900
MS17987C710	1.000
MS17987C711	1.100
MS17987C712	1.200
MS17987C713	1.300
MS17987C714	1.400
MS17987C715	1.500
MS17987C716	1.600
MS17987C717	1.700
MS17987C718	1.800

5/8 91 part numbers

Part no.	Grip, in
MS17987C1009	.900
MS17987C1010	1.000
MS17987C1011	1.100
MS17987C1012	1.200
MS17987C1013	1.300
MS17987C1014	1.400
MS17987C1015	1.500
MS17987C1016	1.600
MS17987C1017	1.700
MS17987C1018	1.800
MS17987C1019	1.900
MS17987C1020	2.000
MS17987C1021	2.100
MS17987C1022	2.200

1 90 part numbers

Part no.	Grip, in
MS17987C1610	1.000
MS17987C1611	1.100
MS17987C1612	1.200
MS17987C1613	1.300
MS17987C1614	1.400
MS17987C1615	1.500
MS17987C1616	1.600
MS17987C1617	1.700
MS17987C1618	1.800
MS17987C1619	1.900
MS17987C1620	2.000
MS17987C1621	2.100
MS17987C1622	2.200
MS17987C1623	2.300

1/2 93 part numbers

Part no.	Grip, in
MS17987C807	.700
MS17987C808	.800
MS17987C809	.900
MS17987C810	1.000
MS17987C811	1.100
MS17987C812	1.200
MS17987C813	1.300
MS17987C814	1.400
MS17987C815	1.500
MS17987C816	1.600
MS17987C817	1.700
MS17987C818	1.800
MS17987C819	1.900
MS17987C820	2.000

3/4 91 part numbers

Part no.	Grip, in
MS17987C1209	.900
MS17987C1210	1.000
MS17987C1211	1.100
MS17987C1212	1.200
MS17987C1213	1.300
MS17987C1214	1.400
MS17987C1215	1.500
MS17987C1216	1.600
MS17987C1217	1.700
MS17987C1218	1.800
MS17987C1219	1.900
MS17987C1220	2.000
MS17987C1221	2.100
MS17987C1222	2.200

Showing 154 of 1029 rows. Complete table: theaviationpoint.com/parts/pins/ms17987/

How to read the part number

Part	Meaning
Example	MS17987C410 — Corrosion-resistant steel pin, 1/4 shank diameter, grip 1.000

Notes

- **Current standard: NASM17987.** MS17987 is now controlled by **NASM17987** (MS17987G, Notice 1). The part numbers do not change: **MS17987C303** is still the number on drawings, IPCs and bags, and it is the same part. Order it by that number; the current document is NASM17987.
- Part number: basic MS number, C (corrosion-resistant steel pin), shank diameter in sixteenths of an inch and grip in tenths of an inch: MS17987C410 is the 1/4 pin with a 1.000 grip.
- Grip lengths from the first listed to 9.900 in steps of .100 for every diameter.
- Grip +.020 −.000, measured to the edge of the locking element hole prior to staking.
- For cost purposes 1/4, 1/2 and 5/8 pins are preferred over 3/16, 7/16 and 9/16 pins respectively.
- Collar mandatory on pins with aluminum alloy handles, optional on pins with CRES handles.
- Alloy steel pins were eliminated: numbers of Revision F with a dash in place of C (alloy steel) are cancelled and superseded in Revision G by the same number with C (MS17987-410 is superseded by MS17987C410).

SOURCES · MS17987 Rev. G, 1 Jun 1994 — Pin, Quick Release, Self-Retaining, Positive Locking, Single Acting, Ring Handle

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/pins/ms17987/