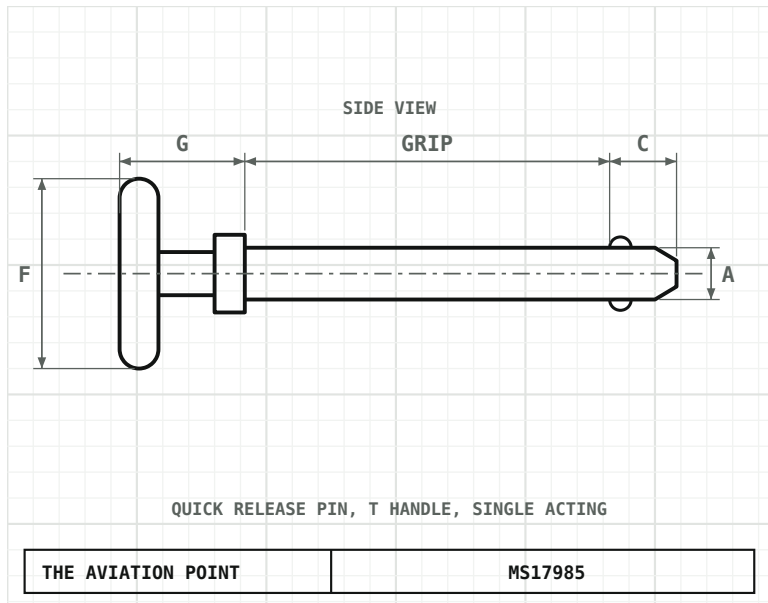
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MS17985 — quick release pin, T handle, single acting (now NASM17985)

MS17985: single acting, self-retaining quick release pin with T handle, 3/16 to 1 diameter.



Engineering drawing · dimensions in inches

Specification

Item	Value
Current standard	NASM17985 (part numbers unchanged)
Type	Quick release pin, T 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, 2024 or 6061-T6; collar: CRES 301, 302, 303 or 304; 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 Cancelled by Notice 1 (Nov 1998) and superseded by NASM17985; the notice states the part numbers are identical.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	.1885	.2485	.3110	.3735	.4360	.4985	.5610	.6235	.7485	.8735	.9985
A min — A dia, min	.1870	.2470	.3095	.3720	.4345	.4970	.5595	.6220	.7470	.8720	.9970
B — B dia, ±.005	.220	.289	.375	.440	.509	.594	.666	.750	.887	1.046	1.219
C — C, +.000 -.040	.260	.290	.330	.365	.380	.460	.510	.580	.670	.760	.890
D max — D dia, max	.310	.310	.310	.390	.390	.565	.565	.580	.700	.840	.950
D min — D dia, min	.250	.250	.250	.300	.300	.435	.435	.450	.570	.700	.750
E max — E dia, max	.500	.500	.500	.625	.625	.800	.800	.975	1.000	1.320	1.320
E min — E dia, min	.380	.380	.380	.510	.510	.630	.630	.810	.810	1.120	1.180
F max — F dia, max	1.815	1.815	1.815	2.065	2.065	2.345	2.345	3.100	3.100	3.520	3.520
F min — F dia, min	1.750	1.750	1.750	1.935	1.935	2.220	2.220	2.250	2.500	2.750	2.750
G — G, max	1.270	1.270	1.270	1.450	1.470	1.600	1.600	1.700	1.720	2.170	2.170
H — H, min	.800	.800	.800	.850	.850	.885	.885	.980	1.030	1.310	1.310
Double shear, min, lb	5150	9200	14400	20600	28000	36800	46000	57500	82500	112500	147000
Tensile strength, min, lb	200	230	510	575	710	1180	1420	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/ms17985/

Part numbers

3/16 97 part numbers

Part no.	Grip, in
MS17985C303	.300
MS17985C304	.400
MS17985C305	.500
MS17985C306	.600
MS17985C307	.700
MS17985C308	.800
MS17985C309	.900
MS17985C310	1.000
MS17985C311	1.100
MS17985C312	1.200
MS17985C313	1.300
MS17985C314	1.400
MS17985C315	1.500
MS17985C316	1.600

1/4 97 part numbers

Part no.	Grip, in
MS17985C403	.300
MS17985C404	.400
MS17985C405	.500
MS17985C406	.600
MS17985C407	.700
MS17985C408	.800
MS17985C409	.900
MS17985C410	1.000
MS17985C411	1.100
MS17985C412	1.200
MS17985C413	1.300
MS17985C414	1.400
MS17985C415	1.500
MS17985C416	1.600

5/16 97 part numbers

Part no.	Grip, in
MS17985C503	.300
MS17985C504	.400
MS17985C505	.500
MS17985C506	.600
MS17985C507	.700
MS17985C508	.800
MS17985C509	.900
MS17985C510	1.000
MS17985C511	1.100
MS17985C512	1.200
MS17985C513	1.300
MS17985C514	1.400
MS17985C515	1.500
MS17985C516	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
MS17985C605	.500
MS17985C606	.600
MS17985C607	.700
MS17985C608	.800
MS17985C609	.900
MS17985C610	1.000
MS17985C611	1.100
MS17985C612	1.200
MS17985C613	1.300
MS17985C614	1.400
MS17985C615	1.500
MS17985C616	1.600
MS17985C617	1.700
MS17985C618	1.800

9/16 93 part numbers

Part no.	Grip, in
MS17985C907	.700
MS17985C908	.800
MS17985C909	.900
MS17985C910	1.000
MS17985C911	1.100
MS17985C912	1.200
MS17985C913	1.300
MS17985C914	1.400
MS17985C915	1.500
MS17985C916	1.600
MS17985C917	1.700
MS17985C918	1.800
MS17985C919	1.900
MS17985C920	2.000

7/8 90 part numbers

Part no.	Grip, in
MS17985C1410	1.000
MS17985C1411	1.100
MS17985C1412	1.200
MS17985C1413	1.300
MS17985C1414	1.400
MS17985C1415	1.500
MS17985C1416	1.600
MS17985C1417	1.700
MS17985C1418	1.800
MS17985C1419	1.900
MS17985C1420	2.000
MS17985C1421	2.100
MS17985C1422	2.200
MS17985C1423	2.300

7/16 95 part numbers

Part no.	Grip, in
MS17985C705	.500
MS17985C706	.600
MS17985C707	.700
MS17985C708	.800
MS17985C709	.900
MS17985C710	1.000
MS17985C711	1.100
MS17985C712	1.200
MS17985C713	1.300
MS17985C714	1.400
MS17985C715	1.500
MS17985C716	1.600
MS17985C717	1.700
MS17985C718	1.800

5/8 91 part numbers

Part no.	Grip, in
MS17985C1009	.900
MS17985C1010	1.000
MS17985C1011	1.100
MS17985C1012	1.200
MS17985C1013	1.300
MS17985C1014	1.400
MS17985C1015	1.500
MS17985C1016	1.600
MS17985C1017	1.700
MS17985C1018	1.800
MS17985C1019	1.900
MS17985C1020	2.000
MS17985C1021	2.100
MS17985C1022	2.200

1 90 part numbers

Part no.	Grip, in
MS17985C1610	1.000
MS17985C1611	1.100
MS17985C1612	1.200
MS17985C1613	1.300
MS17985C1614	1.400
MS17985C1615	1.500
MS17985C1616	1.600
MS17985C1617	1.700
MS17985C1618	1.800
MS17985C1619	1.900
MS17985C1620	2.000
MS17985C1621	2.100
MS17985C1622	2.200
MS17985C1623	2.300

1/2 93 part numbers

Part no.	Grip, in
MS17985C807	.700
MS17985C808	.800
MS17985C809	.900
MS17985C810	1.000
MS17985C811	1.100
MS17985C812	1.200
MS17985C813	1.300
MS17985C814	1.400
MS17985C815	1.500
MS17985C816	1.600
MS17985C817	1.700
MS17985C818	1.800
MS17985C819	1.900
MS17985C820	2.000

3/4 91 part numbers

Part no.	Grip, in
MS17985C1209	.900
MS17985C1210	1.000
MS17985C1211	1.100
MS17985C1212	1.200
MS17985C1213	1.300
MS17985C1214	1.400
MS17985C1215	1.500
MS17985C1216	1.600
MS17985C1217	1.700
MS17985C1218	1.800
MS17985C1219	1.900
MS17985C1220	2.000
MS17985C1221	2.100
MS17985C1222	2.200

Showing 154 of 1029 rows. Complete table: theaviationpoint.com/parts/pins/ms17985/

How to read the part number

Part	Meaning
Example	MS17985C410 — Corrosion-resistant steel pin, 1/4 shank diameter, grip 1.000

Notes

- **Current standard: NASM17985.** MS17985 is now controlled by **NASM17985** (MS17985G, Notice 1). The part numbers do not change: **MS17985C303** is still the number on drawings, IPCs and bags, and it is the same part. Order it by that number; the current document is NASM17985.
- Part number: basic MS number, C (corrosion-resistant steel pin), shank diameter in sixteenths of an inch and grip in tenths of an inch: MS17985C410 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 (MS17985-410 is superseded by MS17985C410).

SOURCES · MS17985 Rev. G, 1 Jun 1994 — Pin, Quick Release, Self-Retaining, Positive Locking, Single Acting, "T" Handle

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/pins/ms17985/

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