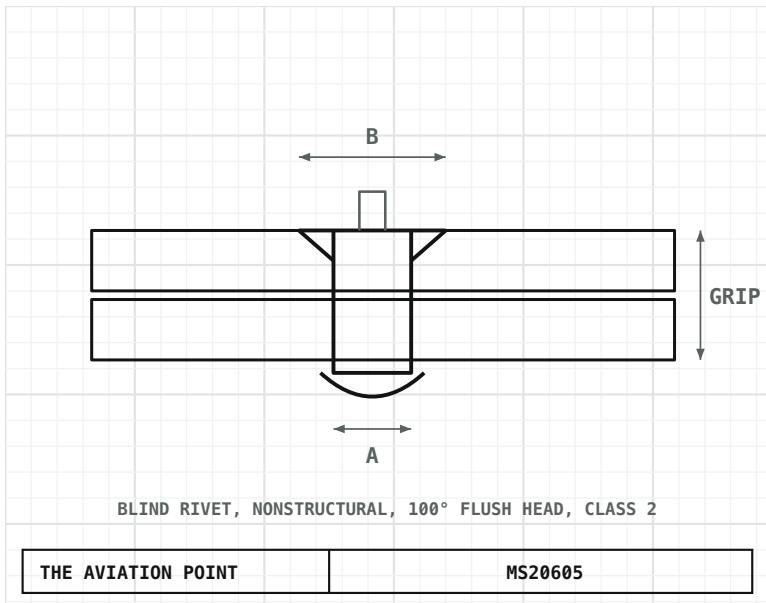
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MS20605 — blind rivet, nonstructural, 100° flush head, Class 2

MS20605: nonstructural blind rivet with a 100° flush head, Class 2, in carbon steel, CRES, aluminum alloy or Monel.



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	Blind rivet, nonstructural, 100° flush head
Material	Sleeve: carbon steel 1008, 1012, 1018 (ASTM A-510), A286 CRES (AMS 5731), 5056 or 2117 aluminum alloy (QQ-A-430) or Monel, class A (QQ-N-281). Stem: carbon steel (ASTM A-510) or 305 CRES (ASTM A-493)
Finish	S: cadmium plate (QQ-P-416, type II, class 2). R: passivate (QQ-P-35) and dry film lube (SAE AS 5272, type I). H: sleeve cadmium plated, stem passivated. B, AD: anodize (MIL-A-8625) or chemical surface treatment (MIL-C-5541, class 1A). MP cadmium plate, ML silver plate (QQ-S-365), CA WWM Carbo wax, FL dry film lube, M no finish
Status	Cancelled by Notice 1 (18 Aug 1998) and superseded by NASM20605; the part numbers are identical.

Dimensions by size

Dimension, in	.094	.125	.156	.187	.250
A — ØA, shank dia (a): +.003 / -.001 aluminum alloy (AD, B); +.003 / -.002 Monel, CRES and steel	.094	.125	.156	.187	.250
B — ØB, head dia ±.004, theoretical sharp corners (b)	.179	.225	.286	.353	.476
C — C, head height, ref	.036	.042	.055	.070	.095
E min — E, head edge, min (not given for steel S)	.002	.002	.002	.002	.002
E max Al — E, head edge, max, aluminum alloy (AD, B)	.010	.012	.012	.014	.016
E max — E, head edge, max, Monel and CRES (MP, ML, CA, FL, M, R, H)	.015	.015	.015	.015	.015

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

Part numbers

.094 64 part numbers

Part no.	Material code	Grip min, in	Grip max, in	Length max, in	F max, in	Mandrel loaded (C)	Plain stem (T)
MS20605MP3W1	MP	.040	.062	.140	.281	MS20605MP3C1	MS20605MP3T1
MS20605MP3W2	MP	.063	.125	.203	.281	MS20605MP3C2	MS20605MP3T2
MS20605MP3W3	MP	.126	.187	.265	.343	MS20605MP3C3	MS20605MP3T3
MS20605MP3W4	MP	.188	.250	.328	.405	MS20605MP3C4	MS20605MP3T4
MS20605FL3W1	FL	.040	.062	.140	.281	MS20605FL3C1	MS20605FL3T1
MS20605FL3W2	FL	.063	.125	.203	.281	MS20605FL3C2	MS20605FL3T2
MS20605FL3W3	FL	.126	.187	.265	.343	MS20605FL3C3	MS20605FL3T3
MS20605FL3W4	FL	.188	.250	.328	.405	MS20605FL3C4	MS20605FL3T4

.125 77 part numbers

Part no.	Material code	Grip min, in	Grip max, in	Length max, in	F max, in	Mandrel loaded (C)	Plain stem (T)
MS20605MP4W1	MP	.047	.062	.170	.256	MS20605MP4C1	MS20605MP4T1
MS20605MP4W2	MP	.063	.125	.232	.318	MS20605MP4C2	MS20605MP4T2
MS20605MP4W3	MP	.126	.187	.295	.381	MS20605MP4C3	MS20605MP4T3
MS20605MP4W4	MP	.188	.250	.357	.443	MS20605MP4C4	MS20605MP4T4
MS20605MP4W5	MP	.251	.312	.420	.506	MS20605MP4C5	MS20605MP4T5
MS20605MP4W6	MP	.313	.375	.482	.568	—	MS20605MP4T6
MS20605MP4W7	MP	.376	.437	.544	.630	MS20605MP4C7	MS20605MP4T7
MS20605MP4W8	MP	.438	.500	.607	.693	MS20605MP4C8	MS20605MP4T8

.156 49 part numbers

Part no.	Material code	Grip min, in	Grip max, in	Length max, in	F max, in	Mandrel loaded (C)	Plain stem (T)
MS20605MP5W2	MP	.063	.125	.274	.440	MS20605MP5C2	MS20605MP5T2
MS20605MP5W4	MP	.126	.250	.399	.560	MS20605MP5C4	MS20605MP5T4
MS20605MP5W6	MP	.251	.375	.524	.690	MS20605MP5C6	MS20605MP5T6
MS20605MP5W8	MP	.376	.500	.679	.810	MS20605MP5C8	MS20605MP5T8
MS20605FL5W2	FL	.063	.125	.274	.440	MS20605FL5C2	MS20605FL5T2
MS20605FL5W4	FL	.126	.250	.399	.560	MS20605FL5C4	MS20605FL5T4
MS20605FL5W6	FL	.251	.375	.524	.690	MS20605FL5C6	MS20605FL5T6
MS20605FL5W8	FL	.376	.500	.679	.810	MS20605FL5C8	MS20605FL5T8

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

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.187 79 part numbers

Part no.	Material code	Grip min, in	Grip max, in	Length max, in	F max, in	Mandrel loaded (C)	Plain stem (T)
MS20605MP6W2	MP	.080	.125	.301	.480	MS20605MP6C2	MS20605MP6T2
MS20605MP6W4	MP	.126	.250	.426	.600	MS20605MP6C4	MS20605MP6T4
MS20605MP6W6	MP	.251	.375	.551	.720	MS20605MP6C6	MS20605MP6T6
MS20605MP6W8	MP	.376	.500	.706	.840	MS20605MP6C8	MS20605MP6T8
MS20605MP6W10	MP	.501	.625	.801	.970	MS20605MP6C10	MS20605MP6T10
MS20605MP6W12	MP	.626	.750	.926	1.100	MS20605MP6C12	MS20605MP6T12
MS20605MP6W14	MP	.751	.875	1.051	1.220	MS20605MP6C14	MS20605MP6T14
MS20605FL6W2	FL	.080	.125	.301	.480	MS20605FL6C2	MS20605FL6T2

.250 86 part numbers

Part no.	Material code	Grip min, in	Grip max, in	Length max, in	F max, in	Mandrel loaded (C)	Plain stem (T)
MS20605MP8W2	MP	.105	.125	.342	.520	MS20605MP8C2	MS20605MP8T2
MS20605MP8W4	MP	.126	.250	.447	.650	MS20605MP8C4	MS20605MP8T4
MS20605MP8W6	MP	.251	.375	.572	.770	MS20605MP8C6	MS20605MP8T6
MS20605MP8W8	MP	.376	.500	.697	.890	MS20605MP8C8	MS20605MP8T8
MS20605MP8W10	MP	.501	.625	.822	1.020	MS20605MP8C10	MS20605MP8T10
MS20605MP8W12	MP	.626	.750	.947	1.158	MS20605MP8C12	MS20605MP8T12
MS20605MP8W14	MP	.751	.875	1.072	1.270	MS20605MP8C14	MS20605MP8T14
MS20605MP8W16	MP	.876	1.000	1.195	1.400	MS20605MP8C16	MS20605MP8T16

Showing 40 of 355 rows. Complete table: theaviationpoint.com/parts/blind-fasteners/ms20605/

How to read the part number

Part	Meaning
S	Material: Carbon steel 1008, 1012 (1018) sleeve and stem, cadmium plated
R	Material: A286 CRES sleeve, 305 CRES stem, passivated, dry film lube
H	Material: A286 CRES sleeve, cadmium plated; 305 CRES stem, passivated
B	Material: 5056 aluminum alloy sleeve
AD	Material: 2117 aluminum alloy sleeve
MP	Material: Monel sleeve, cadmium plated (inactive)
ML	Material: Monel sleeve, silver plated
CA	Material: Monel sleeve, WWM Carbo wax
FL	Material: Monel sleeve, dry film lube
M	Material: Monel sleeve, no finish (inactive)
Example	MS20605S4W2 — Carbon steel (1008, 1012, 1018), .125 dia, .063 to .125 grip range, serrated stem

Notes

- **Cancelled: use NASM20605.** MS20605 is cancelled (Cancelled by Notice 1 (18 Aug 1998) and superseded by NASM20605; the part numbers are identical.). Replacement named by the standard: NASM20605. The old number MS20605MP3W1 still turns up on drawings and IPCs: check the replacement for each part before you order.
- Part number: MS20605, the material code, the sleeve diameter in 32nds, the stem type (W serrated stem, C mandrel loaded, T plain stem) and the grip number in 1/16 in steps: MS20605S4W2.
- Head angle 100° ±1° (aluminum alloy), 100° ±1.5° (Monel, A-286 and steel). Fillet under the head .01 max R. Stem end .015 × 45° chamfer optional; stem diameter not to exceed the rivet diameter.
- (a) .001 shank diameter increase permissible within .100 in of the head. (b) Maximum head diameters are theoretical sharp corners, measured by projection.
- Plain stem rivets (type T) are inactive for new design after 1 November 1986: use serrated stem (type W). Monel rivets with no finish (M) inactive after 3 March 1969. Mandrel loaded 5056 aluminum alloy rivets (B, C) inactive after 3 March 1969. Cadmium plated Monel rivets (MP) inactive after 24 July 1969.
- Items coded E, H and K on previous issues are cancelled: type E has no superseding type; type K use type W (serrated); type H use MS24661.
- 5056 aluminum alloy rivets are identified by an orange color, Fed. Std. No. 595 color 32246. Lube may be added as required for performance.
- Design usage limitations: MS33557. For structural blind rivets use MS20600 and MS20601.
- Approved data governs. Use the fastener the SRM, drawing or IPC calls for.

SOURCES · MS20605 Rev. N, 21 Mar 1997 — Rivet, Blind, Nonstructural, 100° Flush Head, Class 2

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/blind-fasteners/ms20605/

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