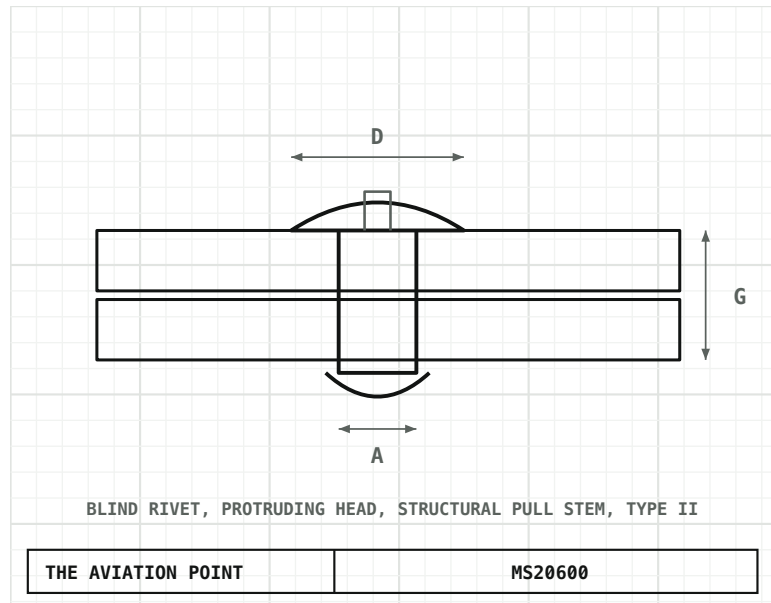
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MS20600 — blind rivet, protruding head, structural pull stem, Type II

MS20600: structural blind rivet, pull stem, self-plugging, protruding (universal) head, Type II, in 2117 or 5056 aluminum alloy or Monel.



MS20600



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	Blind rivet, structural, self-plugging, protruding head
Material	Sleeve: 2117 or 5056 aluminum alloy (QQ-A-430) or Monel, class A (QQ-N-281). Stem: 2017 or 5056 aluminum alloy (QQ-A-430) or Monel, class A (QQ-N-281)
Finish	Aluminum alloy: anodize (MIL-A-8625) or chemical surface treatment (MIL-C-5541). Monel: cadmium plated (MP)
Procurement	MIL-R-7885
Status	Cancelled by Notice 1 (May 2000) and superseded by NASM20600; the part numbers are identical.

Dimensions by size

Dimension, in	1/8	5/32	3/16	1/4
A — A, shank dia (+.003 / -.001)	.125	.156	.187	.250
D — D, head dia	.250 ± .012	.312 ± .016	.375 ± .019	.500 ± .025
E — E, head height (+.010 / -.000)	.064	.067	.080	.107
H — H, dia, max	.110	.138	.161	.215
J — J, min	.750	.750	.750	1.000

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

Part numbers

1/8 12 part numbers

Part no.	Grip min, in	Grip max, in	Length max, in	F max, in	5056 Al sleeve	Monel sleeve	Monel, cadmium plated
MS20600AD4W1	—	.062	.170	—	MS20600B4W1	MS20600M4W1	MS20600MP4W1
MS20600AD4W2	.063	.125	.232	—	MS20600B4W2	MS20600M4W2	MS20600MP4W2
MS20600AD4W3	.126	.187	.295	.750	MS20600B4W3	MS20600M4W3	MS20600MP4W3
MS20600AD4W4	.188	.250	.357	—	MS20600B4W4	MS20600M4W4	MS20600MP4W4
MS20600AD4W5	.251	.312	.420	1.010	MS20600B4W5	MS20600M4W5	MS20600MP4W5
MS20600AD4W6	.313	.375	.482	—	MS20600B4W6	MS20600M4W6	MS20600MP4W6
MS20600AD4W7	.376	.437	.545	—	MS20600B4W7	MS20600M4W7	MS20600MP4W7
MS20600AD4W8	.438	.500	.607	1.322	MS20600B4W8	MS20600M4W8	MS20600MP4W8
MS20600AD4W9	.501	.562	.670	—	MS20600B4W9	MS20600M4W9	MS20600MP4W9
MS20600AD4W10	.563	.625	.722	—	MS20600B4W10	MS20600M4W10	MS20600MP4W10
MS20600AD4W11	.626	.687	.785	—	MS20600B4W11	MS20600M4W11	MS20600MP4W11
MS20600AD4W12	.688	.750	.847	—	MS20600B4W12	MS20600M4W12	MS20600MP4W12

5/32 14 part numbers

Part no.	Grip min, in	Grip max, in	Length max, in	F max, in	5056 Al sleeve	Monel sleeve	Monel, cadmium plated
MS20600AD5W1	—	.062	.192	—	MS20600B5W1	MS20600M5W1	MS20600MP5W1
MS20600AD5W2	.063	.125	.254	.620	MS20600B5W2	MS20600M5W2	MS20600MP5W2
MS20600AD5W3	.126	.187	.317	—	MS20600B5W3	MS20600M5W3	MS20600MP5W3
MS20600AD5W4	.188	.250	.379	.870	MS20600B5W4	MS20600M5W4	MS20600MP5W4
MS20600AD5W5	.251	.312	.441	—	MS20600B5W5	MS20600M5W5	MS20600MP5W5
MS20600AD5W6	.313	.375	.503	1.120	MS20600B5W6	MS20600M5W6	MS20600MP5W6
MS20600AD5W7	.376	.437	.567	—	MS20600B5W7	MS20600M5W7	MS20600MP5W7
MS20600AD5W8	.438	.500	.629	1.401	MS20600B5W8	MS20600M5W8	MS20600MP5W8
MS20600AD5W9	.501	.562	.692	—	MS20600B5W9	MS20600M5W9	MS20600MP5W9
MS20600AD5W10	.563	.625	.754	1.630	MS20600B5W10	MS20600M5W10	MS20600MP5W10
MS20600AD5W11	.626	.687	.817	—	MS20600B5W11	MS20600M5W11	MS20600MP5W11
MS20600AD5W12	.688	.750	.879	—	MS20600B5W12	MS20600M5W12	MS20600MP5W12
MS20600AD5W13	.751	.812	.942	2.067	MS20600B5W13	MS20600M5W13	MS20600MP5W13
MS20600AD5W14	.813	.875	1.004	2.130	MS20600B5W14	MS20600M5W14	MS20600MP5W14

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

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3/16 14 part numbers

Part no.	Grip min, in	Grip max, in	Length max, in	F max, in	5056 Al sleeve	Monel sleeve	Monel, cadmium plated
MS20600AD6W1	—	.062	.215	.638	MS20600B6W1	MS20600M6W1	MS20600MP6W1
MS20600AD6W2	.063	.125	.277	.700	MS20600B6W2	MS20600M6W2	MS20600MP6W2
MS20600AD6W3	.126	.187	.340	—	MS20600B6W3	MS20600M6W3	MS20600MP6W3
MS20600AD6W4	.188	.250	.402	—	MS20600B6W4	MS20600M6W4	MS20600MP6W4
MS20600AD6W5	.251	.312	.465	—	MS20600B6W5	MS20600M6W5	MS20600MP6W5
MS20600AD6W6	.313	.375	.527	1.200	MS20600B6W6	MS20600M6W6	MS20600MP6W6
MS20600AD6W7	.376	.437	.590	1.419	MS20600B6W7	MS20600M6W7	MS20600MP6W7
MS20600AD6W8	.438	.500	.652	—	MS20600B6W8	MS20600M6W8	MS20600MP6W8
MS20600AD6W9	.501	.562	.715	1.637	MS20600B6W9	MS20600M6W9	MS20600MP6W9
MS20600AD6W10	.563	.625	.777	1.699	MS20600B6W10	MS20600M6W10	MS20600MP6W10
MS20600AD6W11	.626	.687	.840	1.887	MS20600B6W11	MS20600M6W11	MS20600MP6W11
MS20600AD6W12	.688	.750	.902	1.949	MS20600B6W12	MS20600M6W12	MS20600MP6W12
MS20600AD6W13	.751	.812	.965	2.074	MS20600B6W13	MS20600M6W13	MS20600MP6W13
MS20600AD6W14	.813	.875	1.027	2.199	MS20600B6W14	MS20600M6W14	MS20600MP6W14

1/4 14 part numbers

Part no.	Grip min, in	Grip max, in	Length max, in	F max, in	5056 Al sleeve	Monel sleeve	Monel, cadmium plated
MS20600AD8W3	.125	.187	.385	.970	MS20600B8W3	MS20600M8W3	MS20600MP8W3
MS20600AD8W4	.188	.250	.447	1.090	MS20600B8W4	MS20600M8W4	MS20600MP8W4
MS20600AD8W5	.251	.312	.510	1.220	MS20600B8W5	MS20600M8W5	MS20600MP8W5
MS20600AD8W6	.313	.375	.572	1.340	MS20600B8W6	MS20600M8W6	MS20600MP8W6
MS20600AD8W7	.376	.437	.635	1.470	MS20600B8W7	MS20600M8W7	MS20600MP8W7
MS20600AD8W8	.438	.500	.697	1.590	MS20600B8W8	MS20600M8W8	MS20600MP8W8
MS20600AD8W9	.501	.562	.760	1.720	MS20600B8W9	MS20600M8W9	MS20600MP8W9
MS20600AD8W10	.563	.625	.822	—	MS20600B8W10	MS20600M8W10	MS20600MP8W10
MS20600AD8W11	.626	.687	.885	1.970	MS20600B8W11	MS20600M8W11	MS20600MP8W11
MS20600AD8W12	.688	.750	.947	2.090	MS20600B8W12	MS20600M8W12	MS20600MP8W12
MS20600AD8W13	.751	.812	1.010	—	MS20600B8W13	MS20600M8W13	MS20600MP8W13
MS20600AD8W14	.813	.875	1.072	2.340	MS20600B8W14	MS20600M8W14	MS20600MP8W14
MS20600AD8W15	.876	.937	1.134	—	MS20600B8W15	MS20600M8W15	MS20600MP8W15
MS20600AD8W16	.938	1.000	—	2.530	MS20600B8W16	MS20600M8W16	MS20600MP8W16

How to read the part number

Part	Meaning
Format	MS20600<material><dash>
AD	Material: 2117 aluminum alloy sleeve
B	Material: 5056 aluminum alloy sleeve
M	Material: Monel sleeve
MP	Material: Monel sleeve, cadmium plated
Example	MS20600AD5W5 — 2117 aluminum alloy sleeve, .156 dia, serrated stem, .251 to .312 grip range

Notes

- **Cancelled: use NASM20600.** MS20600 is cancelled (Cancelled by Notice 1 (May 2000) and superseded by NASM20600; the part numbers are identical.). Replacement named by the standard: NASM20600. The old number MS20600AD4W1 still turns up on drawings and IPCs: check the replacement for each part before you order.
- Part number: MS20600, the sleeve material letters in place of the dash (AD 2117 aluminum alloy, B 5056 aluminum alloy, M Monel; P after the material letter for cadmium plate), the diameter in 32nds, W for the serrated stem and the grip number: MS20600AD5W5.
- Grip number 1 covers grips up to .062 in. Length is the maximum length of the sleeve.
- 5056 aluminum alloy rivets are identified by an orange color, color number 32246.
- .001 in shank diameter increase permissible within .100 in of the base of the head.
- Serrated stem rivets (series W) are universally, functionally and dimensionally interchangeable with knob stem rivets (series K) with proper tooling. Knob stem rivets (series K) and rivets with no stem letter were inactive for design after 21 March 1962.
- Interchangeability: inactive MS20604 numbers AD4E, AD5E, AD6E, AD8E, B4E, B5E, B6E, B8E, M4E, M5E, M6E and M8E are replaced by MS20600 AD4W, AD5W, AD6W, AD8W, B4W, B5W, B6W, B8W, M4W, M5W, M6W and M8W; ML_E and MP_E by MP_W of the same diameter. Corresponding grip numbers are directly interchangeable. AD3E, B3E, ML3E, MP3E and M3E have no substitute.
- Qualified products: QPL-7885. Design usage limitations: MS33522.
- Approved data governs. Use the fastener the SRM, drawing or IPC calls for.

SOURCES · MS20600 Rev. J, 10 Aug 1992 — Rivet, Blind, Structural, Pull Stem, Self-Plugging, Protruding Head, Type II

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theaviationpoint.com/parts/blind-fasteners/ms20600/

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