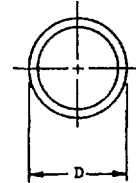
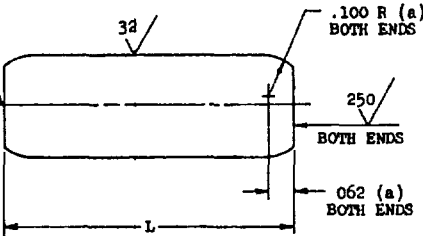


# MS9164

OVERSIZE IDENTIFICATION (a) RAISED OR DEPRESSED 010 MAX

020 APPROX. R (a) BOTH ENDS

(a) FOR 06250 AND 09375 DIAMETER PIN OVERSIZES, IDENTIFICATION FOR THESE PARTS SHALL APPEAR ON THE PACKAGE.



OVERSIZE IDENTIFICATION	.002 OVERSIZE 2	.005 OVERSIZE 5	010 OVERSIZE 10	015 OVERSIZE 15
DIAMETER D	.06450 ± .00025	.06750 ± .00025	.07250 ± .00025	.07750 ± .00025
LENGTH L	PART NO.	PART NO.	PART NO.	PART NO.
250	MS9164-564	MS9164-574	MS9164-584	MS9164-594
375	MS9164-565	MS9164-575	MS9164-585	MS9164-595
500	MS9164-566	MS9164-576	MS9164-586	MS9164-596
625	MS9164-567	MS9164-577	MS9164-587	MS9164-597
.750	MS9164-568	MS9164-578	MS9164-588	MS9164-598
875	MS9164-569	MS9164-579	MS9164-589	MS9164-599
1.000	MS9164-570	MS9164-580	MS9164-590	MS9164-600
DIAMETER D	.09575 ± .00025	.09875 ± .00025	.10375 ± .00025	.10875 ± .00025
LENGTH L	PART NO.	PART NO.	PART NO.	PART NO.
.250	MS9164-614	MS9164-624	MS9164-634	MS9164-644
375	MS9164-615	MS9164-625	MS9164-635	MS9164-645
500	MS9164-616	MS9164-626	MS9164-636	MS9164-646
625	MS9164-617	MS9164-627	MS9164-637	MS9164-647
.750	MS9164-618	MS9164-628	MS9164-638	MS9164-648
875	MS9164-619	MS9164-629	MS9164-639	MS9164-649
1.000	MS9164-620	MS9164-630	MS9164-640	MS9164-650
DIAMETER D	.12700 ± .00025	.13000 ± .00025	.13500 ± .00025	.14000 ± .00025
LENGTH L	PART NO.	PART NO.	PART NO.	PART NO.
.250	MS9164-004	MS9164-024	MS9164-044	MS9164-064
375	MS9164-005	MS9164-025	MS9164-045	MS9164-065
500	MS9164-006	MS9164-026	MS9164-046	MS9164-066
.625	MS9164-007	MS9164-027	MS9164-047	MS9164-067
.750	MS9164-008	MS9164-028	MS9164-048	MS9164-068
875	MS9164-009	MS9164-029	MS9164-049	MS9164-069
1.000	MS9164-010	MS9164-030	MS9164-050	MS9164-070
DIAMETER D	.18950 ± .00025	.19250 ± .00025	.19750 ± .00025	.20250 ± .00025
LENGTH L	PART NO.	PART NO.	PART NO.	PART NO.
250	MS9164-084	MS9164-104	MS9164-124	MS9164-144
.375	MS9164-085	MS9164-105	MS9164-125	MS9164-145
500	MS9164-086	MS9164-106	MS9164-126	MS9164-146
625	MS9164-087	MS9164-107	MS9164-127	MS9164-147
750	MS9164-088	MS9164-108	MS9164-128	MS9164-148
875	MS9164-089	MS9164-109	MS9164-129	MS9164-149
1.000	MS9164-090	MS9164-110	MS9164-130	MS9164-150
DIAMETER D	.25200 ± .00025	.25500 ± .00025	.26000 ± .00025	.26500 ± .00025
LENGTH L	PART NO.	PART NO.	PART NO.	PART NO.
250	MS9164-164	MS9164-184	MS9164-204	MS9164-224
375	MS9164-165	MS9164-185	MS9164-205	MS9164-225
500	MS9164-166	MS9164-186	MS9164-206	MS9164-226
.625	MS9164-167	MS9164-187	MS9164-207	MS9164-227
750	MS9164-168	MS9164-188	MS9164-208	MS9164-228
875	MS9164-169	MS9164-189	MS9164-209	MS9164-229
1.000	MS9164-170	MS9164-190	MS9164-210	MS9164-230

(B) FOR CHANGES SEE SHEETS 1, 2 & 3

THIS STANDARD WAS DEVELOPED COOPERATIVELY WITH THE ENGINE AND PROPELLER UTILITY PARTS COMMITTEE OF THE SAE.

PA Air Force - 82 Other Cust Army - AV Navy - AS	TITLE	MILITARY STANDARD
	PIN, STRAIGHT, HEADLESS, STEEL, OVERSIZE	MS9164
PROCUREMENT SPECIFICATION NONE	SUPERSEDES	SHEET 1 OF 3

Users: Army - ML, SL; Navy; Air Force - II; DSA - JS  
 Reviewers: Army - ML, SL; Navy; Air Force - II; DSA - JS  
 This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

APPROVED 21 Jan 50 REVISED (A) 23 Feb 50 (B) 6 Nov 73

# MS9164

F.L.D. BUP CLASS  
5315

OVERSIZE IDENTIFICATION	002 OVERSIZE ②	005 OVERSIZE ⑤	010 OVERSIZE ⑩	015 OVERSIZE ⑮				
<b>DIAMETER D</b>	31450 ± 00025		.31750 ± 00025		32250 ± 00025		32750 ± 00025	
<b>LENGTH L</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>
375	MS9164-245	MS9164-265	MS9164-285	MS9164-305				
500	MS9164-246	MS9164-266	MS9164-286	MS9164-306				
625	MS9164-247	MS9164-267	MS9164-287	MS9164-307				
750	MS9164-248	MS9164-268	MS9164-288	MS9164-308				
875	MS9164-249	MS9164-269	MS9164-289	MS9164-309				
1 000	MS9164-250	MS9164-270	MS9164-290	MS9164-310				
1 125	MS9164-251	MS9164-271	MS9164-291	MS9164-311				
1 250	MS9164-252	MS9164-272	MS9164-292	MS9164-312				
<b>DIAMETER D</b>	37700 ± 00025		38000 ± 00025		38500 ± 00025		39000 ± 00025	
<b>LENGTH L</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>
375	MS9164-325	MS9164-345	MS9164-365	MS9164-385				
500	MS9164-326	MS9164-346	MS9164-366	MS9164-386				
625	MS9164-327	MS9164-347	MS9164-367	MS9164-387				
750	MS9164-328	MS9164-348	MS9164-368	MS9164-388				
875	MS9164-329	MS9164-349	MS9164-369	MS9164-389				
1 000	MS9164-330	MS9164-350	MS9164-370	MS9164-390				
1 125	MS9164-331	MS9164-351	MS9164-371	MS9164-391				
1 250	MS9164-332	MS9164-352	MS9164-372	MS9164-392				
1 500	MS9164-333	MS9164-353	MS9164-373	MS9164-393				
<b>DIAMETER D</b>	.43950 ± 00025		44250 ± 00025		44750 ± 00025		45250 ± 00025	
<b>LENGTH L</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>
500	MS9164-406	MS9164-426	MS9164-446	MS9164-466				
625	MS9164-407	MS9164-427	MS9164-447	MS9164-467				
.750	MS9164-408	MS9164-428	MS9164-448	MS9164-468				
875	MS9164-409	MS9164-429	MS9164-449	MS9164-469				
1 000	MS9164-410	MS9164-430	MS9164-450	MS9164-470				
1 125	MS9164-411	MS9164-431	MS9164-451	MS9164-471				
1 250	MS9164-412	MS9164-432	MS9164-452	MS9164-472				
1.500	MS9164-413	MS9164-433	MS9164-453	MS9164-473				
1.750	MS9164-414	MS9164-434	MS9164-454	MS9164-474				

APPROVED 21 Jan 58 REVISED (B) FOR CHANGES SEE SHEETS 1, 2 AND 3

Users  
Review activities  
Army - M1, SL  
Navy  
AF  
AFSA - IS  
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PA Air Force - 82 Other Cust Army - AV Navy - AS	TITLE  PIN, STRAIGHT, HEADLESS, STEEL, OVERSIZE	MILITARY STANDARD  <b>MS9164</b>
PROCUREMENT SPECIFICATION NONE	SUPERSEDES	SHEET 2 OF 3

**MS9164**

FED SUP CLASS  
5315

OVERSIZE IDENTIFICATION	002 OVERSIZE	005 OVERSIZE	010 OVERSIZE	015 OVERSIZE
	2	5	10	15
DIAMETER D	5020 ± .0005	5050 ± .0005	.5100 ± .0005	5150 ± .0005
LENGTH L	PART NO.	PART NO	PART NO.	PART NO
500	MS9164-486	MS9164-506	MS9164-526	MS9164-546
.625	MS9164-487	MS9164-507	MS9164-527	MS9164-547
750	MS9164-488	MS9164-508	MS9164-528	MS9164-548
875	MS9164-489	MS9164-509	MS9164-529	MS9164-549
1 000	MS9164-490	MS9164-510	MS9164-530	MS9164-550
1 125	MS9164-491	MS9164-511	MS9164-531	MS9164-551
1 250	MS9164-492	MS9164-512	MS9164-532	MS9164-552
1 500	MS9164-493	MS9164-513	MS9164-533	MS9164-553
1 750	MS9164-494	MS9164-514	MS9164-534	MS9164-554
2 000	MS9164-495	MS9164-515	MS9164-535	MS9164-555

Users

Review activities  
Army - MI, SL  
Navy  
Air Force - II  
DSA - IS

FOR STANDARD SIZE PINS, SEE AM122676 THRU AM126775.

PINS MUST BE STRAIGHT WITHIN .0005 PIR.

MATERIAL: STEEL A455132

HARDNESS: .06450 TO 10875 - 26-32 HRC  
 .12700 TO 20250 - 23-29 HRC  
 .25200 TO .45250 - 17-23 HRC  
 .5020 TO .5150 - 89-95 HRB

SURFACE TEXTURE: ANSI B46 1

BREAK SHARP EDGES .003-.015 UNLESS OTHERWISE SPECIFIED

DIMENSIONS IN INCHES, UNLESS OTHERWISE SPECIFIED; TOLERANCES: LINEAR DIMENSIONS ± .010

DO NOT USE UNASSIGNED PART NUMBERS

APPROVED 21 Jan 58 REVISED (B) FOR CHANGES SEE SHEETS 1, 2 AND 3

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P. A. Air Force - 82	TITLE	MILITARY STANDARD
Other Cust Army - AV Navy - AS	PIN, STRAIGHT, HEADLESS, STEEL, OVERSIZE	<b>MS9164</b>
PROCUREMENT SPECIFICATION NONE	SUPERSEDES	SHEET 3 OF 3

**INCH-POUND**

**NOTICE  
OF VALIDATION**

**MS9164B  
NOTICE 1  
3 October 1991**

**MILITARY STANDARD**

**PIN, STRAIGHT, HEADLESS, STEEL, OVERSIZE**

MS9164B, dated 6 November 1973, has been reviewed and determined to be valid for use in acquisition

**Custodians**

**Army – AV**

**Navy – AS**

**Air Force – 11**

**Preparing activity:**

**Navy – AS**

**AMSC N/A**

**FSC 5315**

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