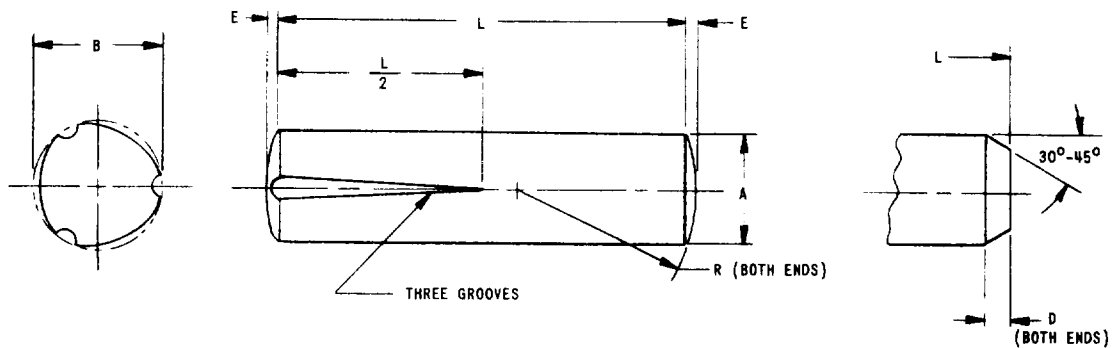


User activities:  
ARMY - AT, EL  
NAVY - OS, SH  
AIR FORCE

Review activities:  
ARMY - AV, EA, MI  
NAVY -  
AIR FORCE -  
DLA - IS MS



# NOTES:

1. MATERIAL: CORROSION-RESISTING STEEL, 300 SERIES (AUSTENITIC STEEL)  
FED-STD-66. MINIMUM ULTIMATE SHEAR STRENGTH, 90,000 PSI.
2. PROTECTIVE FINISH: PASSIVATED IN ACCORDANCE WITH QQ-P-35.
3. DIMENSIONS ARE IN INCHES.
4. DIAMETER "B" IS THE EXPANDED DIAMETER AS MEASURED WITH A GO AND NOT GO RING GAGE MADE TO 2 TOLERANCES.
5. MS PART NUMBER CONSISTS OF THE MS NUMBER, PLUS THE DASH NUMBER.  
EXAMPLE: MS51605-1.
6. THIS ITEM SERVES AS A DOWEL PIN IN APPLICATIONS WITH A THRU HOLE.

FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.

REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BIDS, OR REQUEST FOR PROPOSAL EXCEPT THAT REFERENCED ADOPTED INDUSTRY DOCUMENTS SHALL GIVE THE DATE OF THE ISSUE ADOPTED.

(B) ENTIRE STANDARD REVISED

This military standard is approved for use by all Departments & Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

P.A. Other Cust	AR AS 99	TITLE  PIN, GROOVED, HEADLESS (HALF LENGTH TAPER GROOVE) CORROSION-RESISTING STEEL	MILITARY STANDARD <b>MS 51605</b>
PROCUREMENT SPECIFICATION MIL-P-20700	SUPERSEDES.	SHEET 1 OF 2	

DD FORM 672-1 (Coordinated)  
1 MAR 72

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

5315-0289

APPROVED 27 SEP 65 REVISED (A) 14 OCT 66 (B) 15 MAY 78

FED. SUP CLASS  
5315

FED. SUP CLASS  
5315User activities:  
ARMY - AT, EL  
NAVY - OS, SH  
AIR FORCE -Review activities:  
ARMY - AV, EA, MI  
NAVY -  
AIR FORCE -  
DLA - IS NS

A DIAMETER	.0469 +.0000 -.0010	.0625 +.0000 -.0010	.0781 +.0000 -.0010	.0938 +.0000 -.0010	.1250 +.0000 -.0020
D CHAMFER LENGTH $\perp$ / MIN	---	.016	.016	.016	.016
E CROWN HEIGHT $\perp$ / REF	---	.0065	.0087	.0091	.0130
R RADIUS +.010	---	.078	.094	.125	.156
RECOMMENDED HOLE MAX	.0482	.0640	.0798	.0956	.1271
SIZE DRIVE FIT MIN	.0469	.0625	.0781	.0938	.1250
SINGLE SHEAR LBS- STRENGTH MIN	150	270	430	620	1100
L LENGTH +.010	DASH NO. B DIA +.001	DASH NO. B DIA +.001	DASH NO. B DIA +.001	DASH NO. B DIA +.001	DASH NO. B DIA +.002
.500	- 1 .050	- 3 .066	- 8 .082	-13 .099	-19 .132
.625	- 2 .050	- 4 .066	- 9 .082	-14 .099	-20 .132
.750		- 5 .066	-10 .082	-15 .099	-21 .132
.875		- 6 .066	-11 .082	-16 .099	-22 .132
1.000		- 7 .066	-12 .082	-17 .099	-23 .132
1.250				-18 .099	-24 .132
1.500					-25 .132

A DIAMETER	.1563 +.0000 -.0020	.1875 +.0000 -.0020	.2188 +.0000 -.0020	.2500 +.0000 -.0020
D CHAMFER LENGTH $\perp$ / MIN	.031	.031	.031	.031
E CROWN HEIGHT $\perp$ / REF	.0170	.0180	.0220	.0260
R RADIUS +.010	.188	.250	.281	.312
RECOMMENDED HOLE MAX	.1587	.1903	.2219	.2534
SIZE DRIVE FIT MIN	.1563	.1875	.2188	.2500
SINGLE SHEAR LBS- STRENGTH MIN	1720	2480	3380	4420
L LENGTH +.010	DASH NO. B DIA +.002	DASH NO. B DIA +.002	DASH NO. B DIA +.002	DASH NO. B DIA +.002
.500	-26 .164	-33 .195	-40 .227	-47 .260
.625	-27 .164	-34 .195	-41 .227	-48 .260
.750	-28 .164	-35 .195	-42 .227	-49 .260
.875	-29 .164	-36 .195	-43 .227	-50 .260
1.000	-30 .164	-37 .195	-44 .227	-51 .260
1.250	-31 .164	-38 .195	-45 .227	-52 .260
1.500	-32 .164	-39 .195	-46 .227	-53 .260

 $\perp$  ENDS MAY BE CROWNED OR CHAMFERED OR MAY BE SQUARE WITH .01 TO .02 RADIUS ON THE EDGES.

APPROVED 27 SEP 65 REVISED 6 FOR CHANGES SEE SHEET 1

P.A. Other Cust	AR AS 99	TITLE PIN, GROOVED, HEADLESS (HALF LENGTH TAPER GROOVE) CORROSION-RESISTING STEEL	MILITARY STANDARD <b>MS 51605</b>
PROCUREMENT SPECIFICATION MIL-P-20700		SUPERSEDES	SHEET 2 OF 2

DD FORM 672-1 (Coordinated)  
1 MAR 72

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