

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

SAE MA4018

FEDERAL SUPPLY CLASS
5315

RATIONALE

MA4018 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

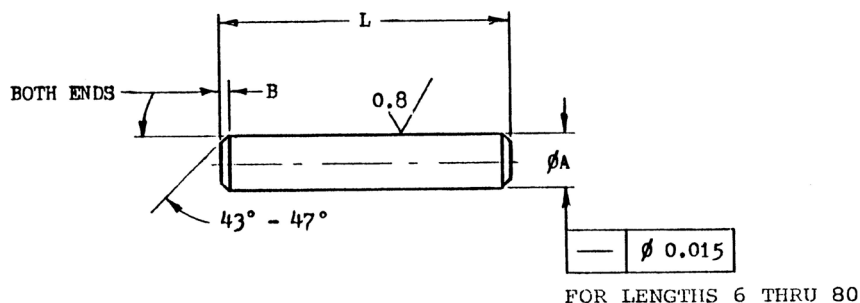


TABLE I. DIMENSIONS

NOM DIA	1.5		2		2.5		3	
A p7 1/	1.506 - 1.516		2.006 - 2.016		2.506 - 2.516		3.006 - 3.016	
B	0.1 - 0.3		0.1 - 0.3		0.1 - 0.4		0.4 - 0.8	
L ± 0.3	DASH NO.	APPROX MASS kg/1000	DASH NO.	APPROX MASS kg/1000	DASH NO.	APPROX MASS kg/1000	DASH NO.	APPROX MASS kg/1000
3	-003	0.043	-028	0.075				
4	-004	0.057	-029	0.101	-056	0.157		
5	-005	0.071	-030	0.126	-057	0.196	-082	0.282
6	-006	0.085	-031	0.151	-058	0.235	-083	0.338
8	-007	0.114	-032	0.201	-059	0.314	-084	0.451
10	-008	0.142	-033	0.251	-060	0.392	-085	0.564
12	-009	0.170	-034	0.302	-061	0.470	-086	0.676
14	-010	0.199	-035	0.352	-062	0.549	-087	0.789
16	-011	0.227	-036	0.402	-063	0.627	-088	0.902
18	-012	0.256	-037	0.453	-064	0.706	-089	1.015
20	-013	0.284	-038	0.503	-065	0.784	-090	1.127
22							-091	1.240
24							-092	1.353

1/ TOLERANCE GRADE TO ANSI B4.2-1978

AMS IS SAE PUBLICATION.

ANSI IS AMERICAN NATIONAL STANDARDS INSTITUTE PUBLICATION.

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/MA4018>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: NONE

SAE Aerospace
An SAE International Group

METRIC AEROSPACE STANDARD

PIN, STRAIGHT, HEADLESS
AMS 5688, METRIC

SAE MA4018
SHEET 1 OF 2

Copyright 2012 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)
Fax: 724-776-0790

Tel: +1 724-776-4970 (outside USA)
Email: CustomerService@sae.org

SAE WEB ADDRESS: <http://www.sae.org>

ISSUED 1987-09 REAFFIRMED 2012-12

TABLE I. DIMENSIONS (CONTINUED)

NOM DIA	4		5		6		8		10	
A p7 1/	4.012 - 4.024		5.012 - 5.024		6.012 - 6.024		8.015 - 8.030		10.015 - 10.030	
B	0.4 - 0.8		0.8 - 1.2		0.8 - 1.2		1.3 - 1.7		1.3 - 1.7	
L ± 0.3	DASH NO.	APPROX MASS kg/1000	DASH NO.	APPROX MASS kg/1000	DASH NO.	APPROX MASS kg/1000	DASH NO.	APPROX MASS kg/1000	DASH NO.	APPROX MASS kg/1000
6	-108	0.602								
8	-109	0.803	-134	1.252						
10	-110	1.004	-135	1.566	-161	2.252				
12	-111	1.204	-136	1.879	-162	2.702	-188	4.802		
14	-112	1.405	-137	2.192	-163	3.152	-189	5.602		
16	-113	1.606	-138	2.505	-164	3.603	-190	6.403	-216	9.993
18	-114	1.807	-139	2.818	-165	4.053	-191	7.203	-217	11.242
20	-115	2.008	-140	3.131	-166	4.504	-192	8.003	-218	12.491
22	-116	2.208	-141	3.444	-167	4.954	-193	8.804	-219	13.740
24	-117	2.409	-142	3.758	-168	5.404	-194	9.604	-220	14.990
26	-118	2.610	-143	4.071	-169	5.855	-195	10.404	-221	16.239
28	-119	2.811	-144	4.384	-170	6.305	-196	11.205	-222	17.488
30	-120	3.011	-145	4.697	-171	6.755	-197	12.005	-223	18.737
32	-121	3.212	-146	5.010	-172	7.206	-198	12.805	-224	19.986
36	-122	3.614	-147	5.636	-173	8.106	-199	14.406	-225	22.484
40			-148	6.262	-174	9.007	-200	16.007	-226	24.982
45					-175	10.133	-201	18.008	-227	28.105
50					-176	11.259	-202	20.008	-228	31.228
55							-203	22.009	-229	34.351
60									-230	37.474
70									-231	43.719
80									-232	49.965

NOTES:

1. MATERIAL: CRES, AMS 5688. (UNS 30200)
2. FINISH: UNPLATED.
3. HARDNESS: SPRING TEMPER. HARDNESS (SHEAR) RC38-44 PER MATERIAL SPEC.
4. PROCUREMENT SPECIFICATION: MA 4070
5. SURFACE TEXTURE: SYMBOLS PER ANSI Y14.36-1978; REQUIREMENTS PER ANSI B46.1-1985 UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 3.2 MICROMETRES Ra. Max.
6. DIMENSIONING AND TOLERANCING: ANSI Y14.5M-1982.
7. DIMENSIONS IN MILLIMETRES.
8. PART NUMBER: THE PART NUMBER FOR EACH PIN SHALL CONSIST OF THE MA DOCUMENT NUMBER FOLLOWED BY THE ASSIGNED DASH NUMBER FROM TABLE I. EXAMPLE: MA4018-085 IS THE PART NUMBER FOR 3 DIA x 10 LONG PIN.
9. DO NOT USE UNASSIGNED PART NUMBERS.

SAENORM.COM : Click to view the full PDF of ma4018

 An SAE International Group	METRIC AEROSPACE STANDARD	SAE MA4018 SHEET 3 OF 2	
	PIN, STRAIGHT, HEADLESS AMS 5688, METRIC		