

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.

AS81969™/25

FEDERAL SUPPLY CLASS
5120

RATIONALE

THIS DETAIL SPECIFICATION SHEET IS REQUIRED TO ALLOW THE CANCELLATION AND SUPERSESSION OF MIL-81969/25 WITH THIS DOCUMENT, TO IMPROVE DRAWING LEGIBILITY, TO UPDATE QUALIFICATION INFORMATION, TO REMOVE GOVERNMENT JARGON, AND TO UPDATE REFERENCES.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS81969.

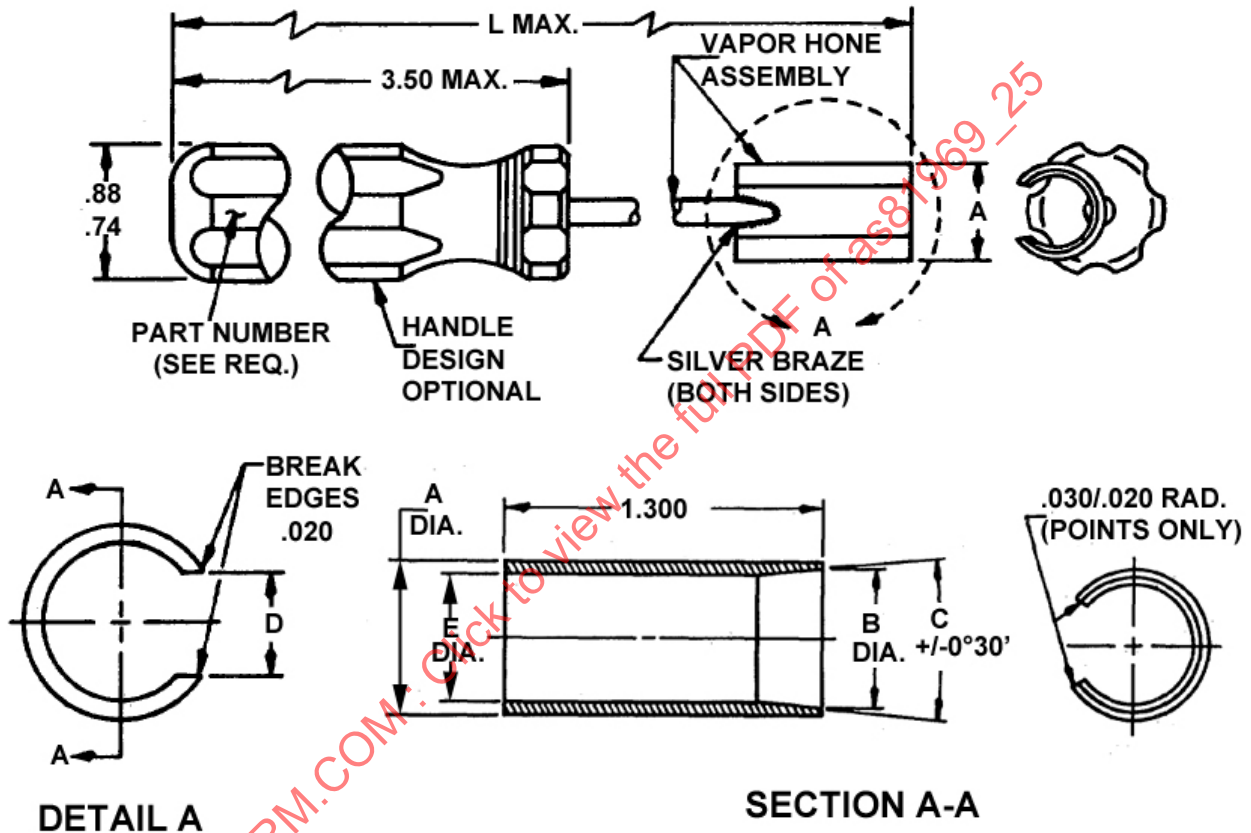
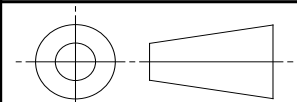


FIGURE 1 - INSTALLING AND REMOVAL TOOL CONFIGURATIONS/DIMENSIONS

For more information on this standard, visit
<https://www.sae.org/standards/content/AS81969/25>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C2

PROCUREMENT SPECIFICATION: AS81969



AEROSPACE STANDARD

INSTALLING AND REMOVAL TOOLS,
CONNECTOR, ELECTRICAL CONTACT,
TYPE III, CLASS 2, COMPOSITION C

AS81969™/25
SHEET 1 OF 3

Copyright © 2020 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 2015-08 REAFFIRMED 2020-08

TABLE 1 - METRIC EQUIVALENTS

INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS
.020	0.025	.74	0.762	1.300	10.16
.030	0.051	.88	1.27	3.50	10.62

TABLE 2 - FIGURE 1 CONFIGURATION/DIMENSIONS

DASH NUMBER	CONNECTOR TYPE(S)	A DIA.	B DIA.	C ANGLE +/-0° 30'	D	E DIA.	L MAX.
-01	BNC/TNC	.625 (15.88)	.600 (15.24)	10° 0'	.330 (8.38)	.527 (13.39)	12.00 (304.80)
-02	BNC/TNC	.625 (15.88)	.600 (15.24)	10° 0'	.330 (8.38)	.527 (13.39)	6.00 (152.40)
-03	N	.875 (22.23)	.850 (21.59)	8° 0'	.500 (12.70)	.777 (19.74)	12.00 (304.80)
-04	N	.875 (22.23)	.850 (21.59)	8° 0'	.500 (12.70)	.777 (19.74)	6.00 (152.40)
-05	TPS	.531 (13.49)	.470 (11.94)	8° 0'	.312 (7.92)	.442 (11.23)	12.00 (304.80)
-06	TPS	.531 (13.49)	.470 (11.94)	8° 0'	.312 (7.92)	.442 (11.23)	6.00 (152.40)

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS81969.

- DESIGN: THE TOOL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLE 1. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING WHERE PLATING IS APPLICABLE. METRIC EQUIVALENTS IN TABLE 1 ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED ON 1 INCH = 25.4 MILLIMETERS. UNLESS OTHERWISE SPECIFIED, TOLERANCE IS $\pm .003$ INCH (0.08 MILLIMETERS). STAMP AND WHITE FILL, LETTERING HEIGHT .08 (2.0 MILLIMETERS). REMOVE ALL BURRS AND SHARP EDGES.

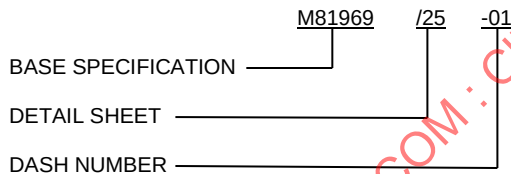
- MATERIAL AND FINISHES:

HANDLE - PLASTIC PER L-P-410 OR APPROVED EQUIVALENT.

SHAFT - TYPE 304, CRES, PER MIL-T-8504, DASH NUMBERS -01 AND -02 ARE TO BE 18 GAGE, .049 (1.24 MILLIMETERS) WALL THICKNESS, DASH NUMBERS -03 THROUGH -06 ARE TO BE 16 GAGE, .065 (1.65 MILLIMETERS) WALL THICKNESS.

COLLET - TYPE 304 CRES, PER MIL-T-8504, DASH NUMBERS -01 AND -02 ARE TO BE 18 GAGE, .049 (1.24 MILLIMETERS) WALL THICKNESS, DASH NUMBERS -03 THROUGH -06 ARE TO BE 16 GAGE, .065 (1.65 MILLIMETERS) WALL THICKNESS.

- PART NUMBER/MARKING: SEE EXAMPLE BELOW



EACH TOOL SHALL BE LEGIBLY AND PERMANENTLY MARKED ON THE HANDLE WITH THE MANUFACTURER'S IDENTIFICATION AND PART NUMBER IN ACCORDANCE WITH MIL-STD-130. MANUFACTURER SYMBOL, IF USED, SHALL BE IN ACCORDANCE WITH AIR1351.

- QUALIFICATION: QUALIFICATION SHALL BE IN ACCORDANCE WITH AS81969 WITH THE FOLLOWING EXCEPTIONS:

PLUNGER FORCE - NOT APPLICABLE

ALTERNATIVE QUALIFICATION REQUIREMENTS SUCH AS CERTIFICATION, FIRST ARTICLE OR QC TESTING MAY BE IMPOSED BY THE QUALIFYING ACTIVITY (QA). THE QA SHALL SUBMIT A WRITTEN REQUEST TO THE AE-8C2 COMMITTEE FOR REVIEW AND APPROVAL OF THE ALTERNATIVE QUALIFICATION TESTING PROGRAM PRIOR TO IMPLEMENTATION OF THE REQUIREMENT.