

INCH-POUND

MIL-DTL-5423/16E
17 February 2009

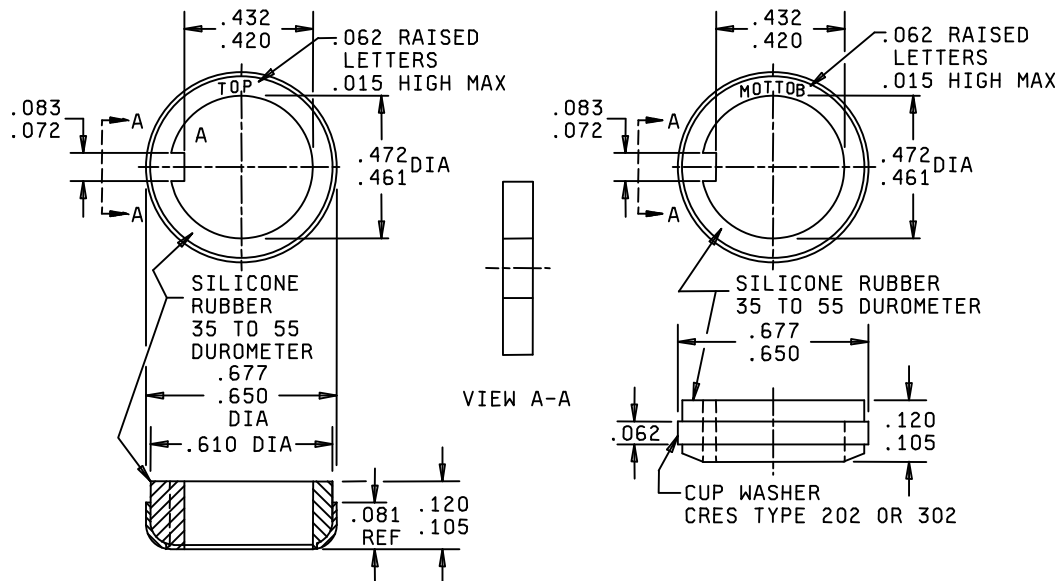
SUPERSEDING
MIL-DTL-5423/16D
AMENDMENT 1
12 May 2003

DETAIL SPECIFICATION SHEET

BOOT, DUST AND WATER SEAL, BUSHING SEAL, TYPE A (FOR TOGGLE SWITCH 0.469 DIAMETER) STYLE 10 (PANEL BUSHING SEAL ONLY)

This specification sheet is approved for use by all Departments and Agencies of the Department of Defense.

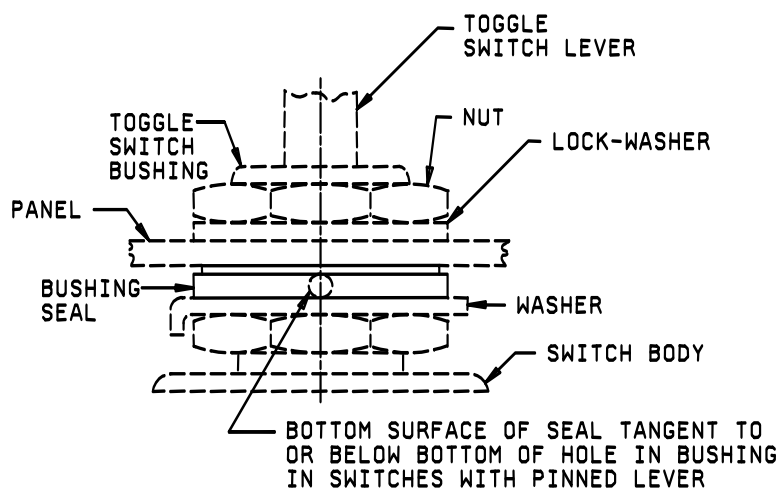
The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-5423.



ALTERNATE CONFIGURATION

BOTH VERSIONS ARE ACCEPTABLE AND ARE MUTUALLY INTERCHANGEABLE
PROVIDED THEY MEET THE SPECIFIED REQUIREMENTS

FIGURE 1. Dimensions and configuration boots type A, style 10.



DETAIL OF BUSHING SEAL ASSEMBLY

Inches	mm	Inches	mm
.015	0.38	.420	10.67
.062	1.57	.432	10.97
.072	1.83	.461	11.71
.083	2.11	.472	11.99
.105	2.67	.650	16.51
.120	3.05	.677	17.20

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are $\pm .15$ (0.38 mm) for three place decimals.
4. This seal is intended for use with toggle switches per MIL-DTL-3950, MIL-DTL-8834, and MIL-DTL-83731.
5. Bushing seal to be assembled so that surface marked "Top" is up, or "Bottom" is down.

FIGURE 1. Dimensions and configuration boots type A, style 10 – Continued.

REQUIREMENTS

Dimensions and configuration: See figure 1.

Silicon rubber: Grade 50.

Qualification: First Article Testing in accordance with MIL-DTL-5423.

Watertightness: The boot (bushing seal) shall be assembled to the test enclosure using a solid bushing of dimensions equivalent to a bushing of an applicable switch (including the non-turn notch). The solid bushing and bushing seal shall be assembled per figure I. The test shall be conducted in accordance with the "Final" watertightness test of MIL-DTL-5423, except that the pressure shall be limited to 6 pounds-force per square inch gauge, external pressure only, and no operations are required. At the conclusion of this procedure, the test enclosure shall be examined in the bushing area for evidence of water leakage.

The following tests are not required: Restoring force, durability, sand and dust, vibration, salt spray, endurance and lubricant.

Part or Identifying Number (PIN): M5423/16-01

The margins of this specification are marked with vertical lines to indicate where modifications were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Reference Documents:

MIL-DTL-5423
MIL-DTL-8834

MIL-DTL-3950
MIL-DTL-83731

Custodians:

Army - CR
Navy - AS
Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5930-2008-072)

Review activities:

Army – AT, AV, CR4, MI
Navy – CG, EC, MC, OS
Air Force – 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://assist.daps.dla.mil>.