

DETAIL SPECIFICATION

SWITCHES, ROTARY, ENCLOSED, SUBMERSIBLE (15 FEET), SNAP ACTION,
500 VOLTS ALTERNATING CURRENT/250 VOLTS DIRECT CURRENT, 30 AMPERE,
SYMBOLS 839.1 (4PDT), 848.1 (TPDT), AND 2752.1 (SPECIAL)

This specification 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 and the
latest issue of MIL-DTL-15743.

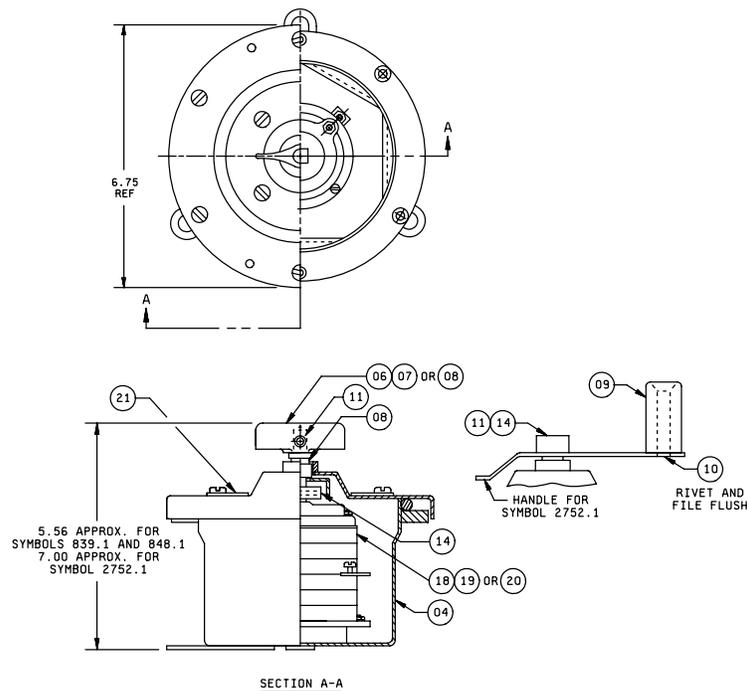


FIGURE 1. Switch, enclosed (typical). 01, 02, 03
(-001 shown)

NOTES:

1. All dimensions in inches.
2. Unless otherwise specified herein, tolerances shall be as follows:
Two place decimals - plus or minus 0.02.
Three place decimals - plus or minus 0.005.
Angular dimensions - plus or minus 30 minutes.

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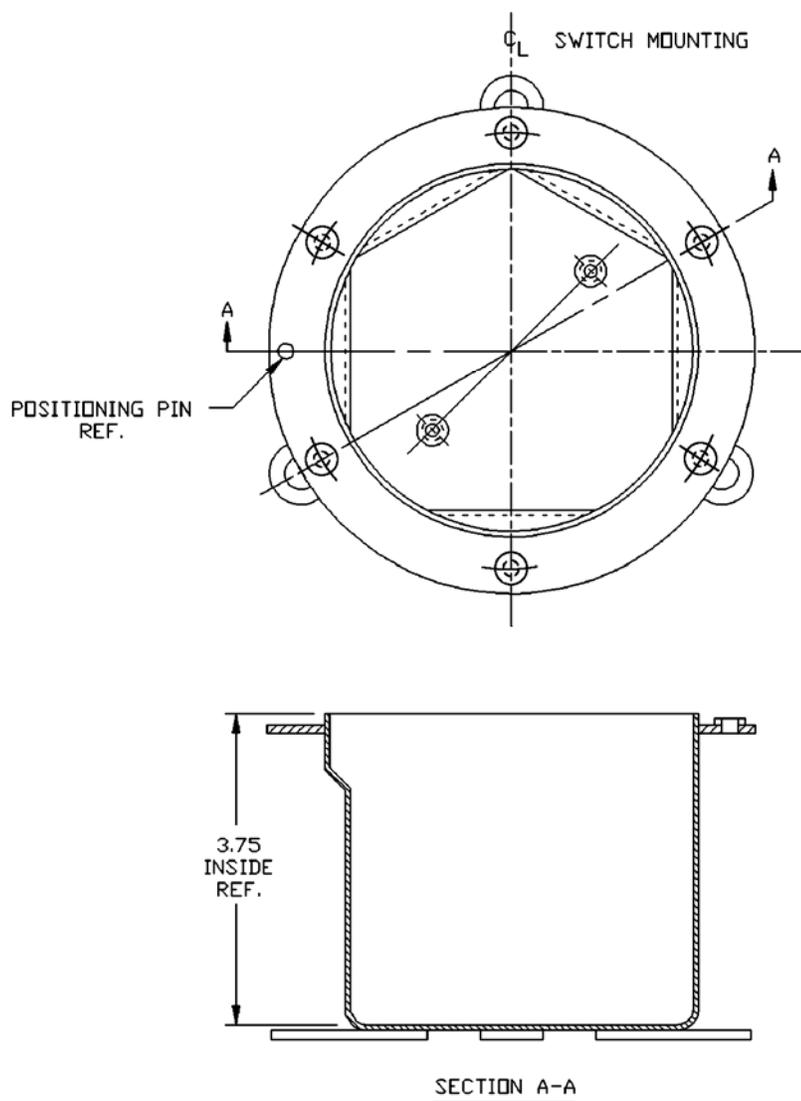


FIGURE 2. Box assembly.

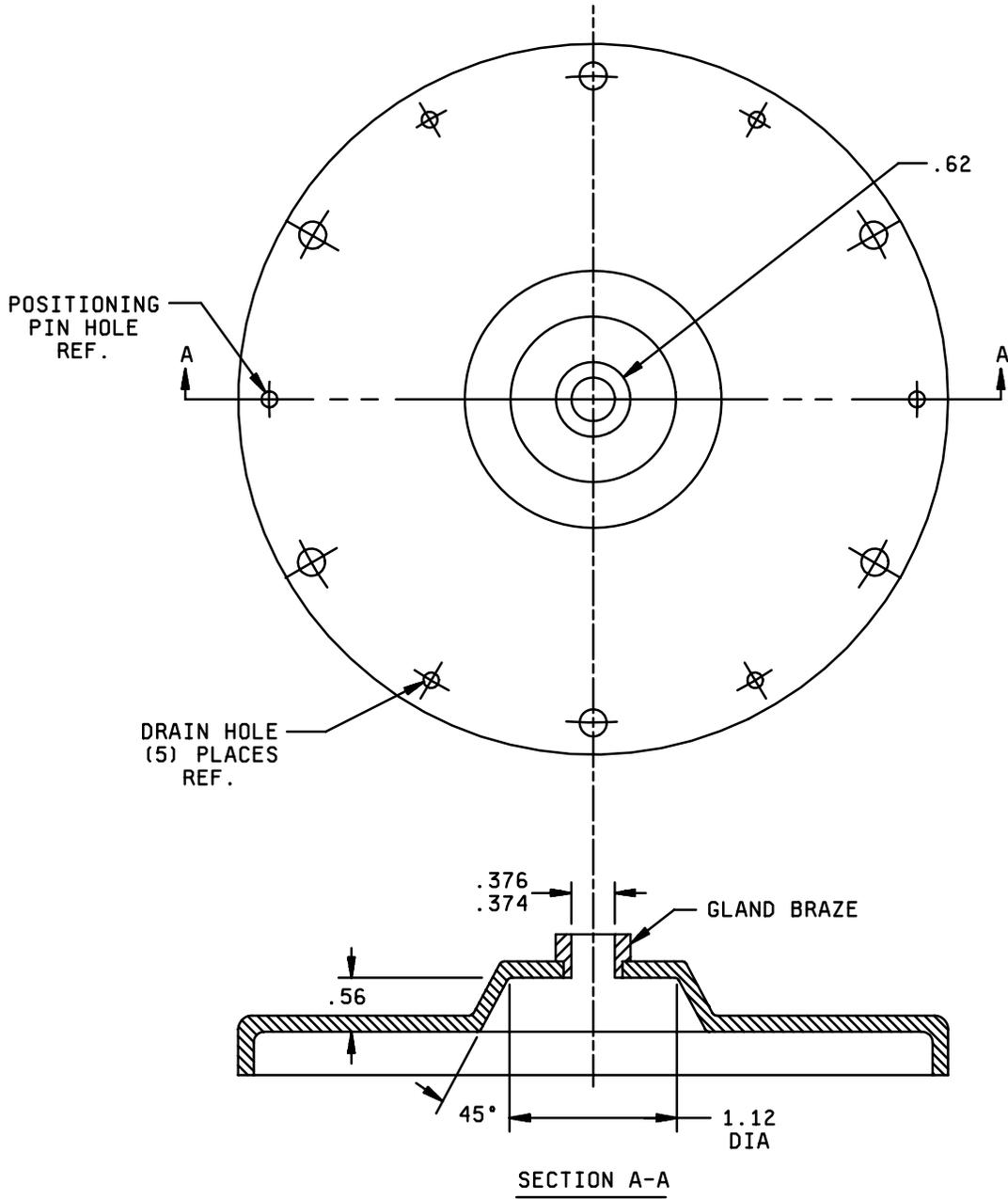
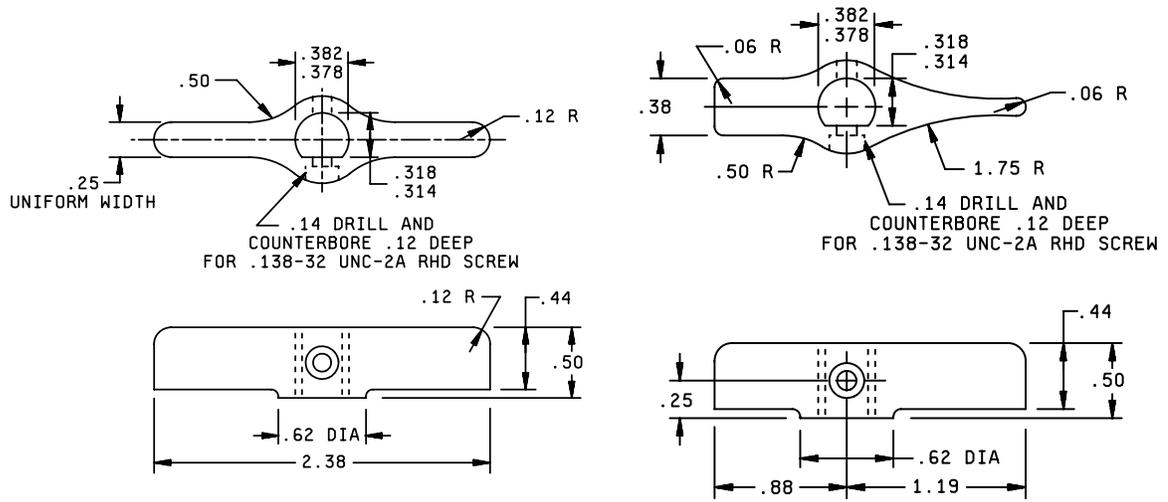


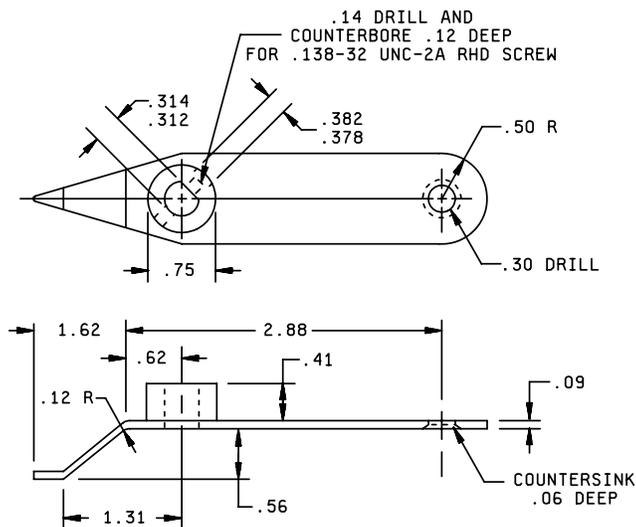
FIGURE 3. Cover assembly (modified).

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A. symbol 839.1 (06)

B. Symbol 848.1 (07)



C. Symbol 2752.1. (08)

FIGURE 4. Handles.

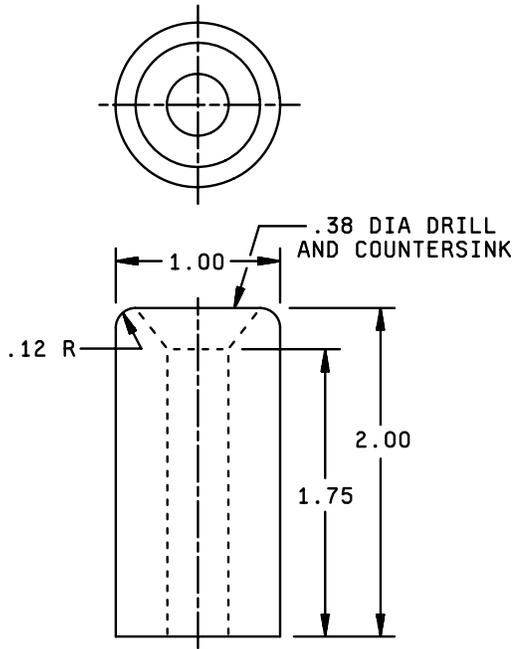


FIGURE 5. Handle knob. (09)

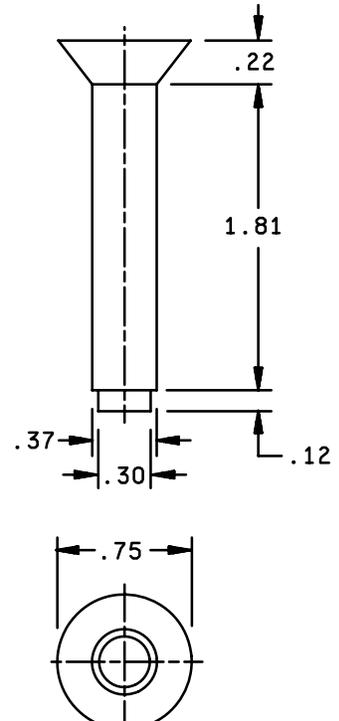


FIGURE 6. Knob pin. (10)

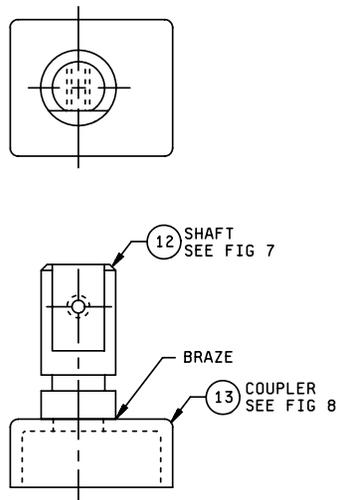


FIGURE 7. Shaft assembly. (11), (12), (13)

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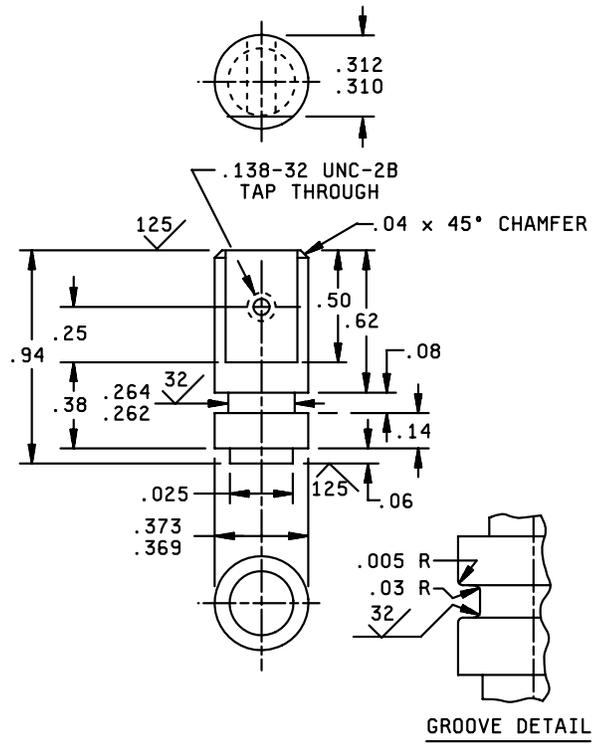


FIGURE 8. Shaft. (12)

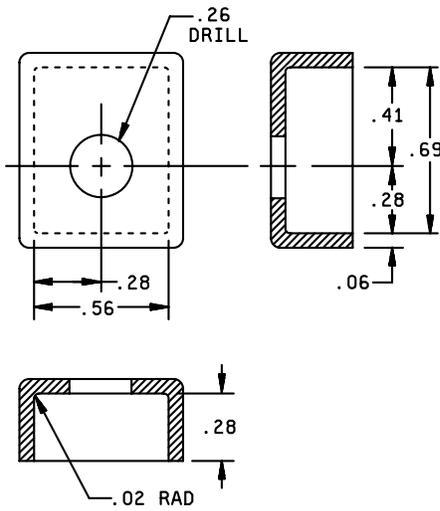


FIGURE 9. Coupler. (13)

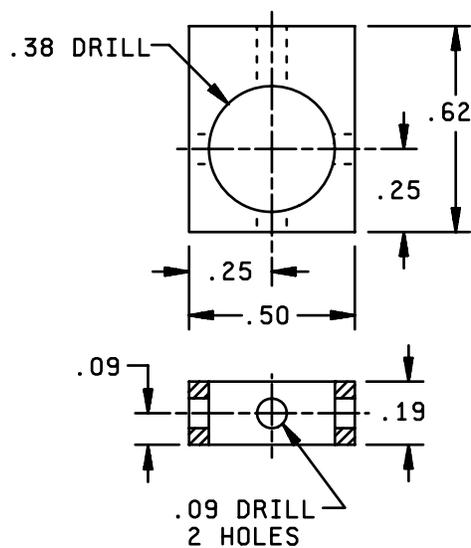


FIGURE 10. Coupler plate. (14)

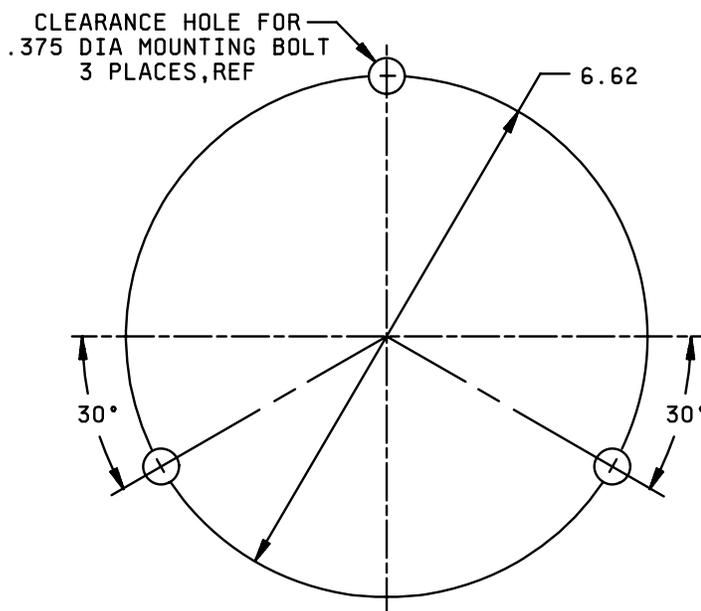


FIGURE 11. Mounting dimensions, ref.

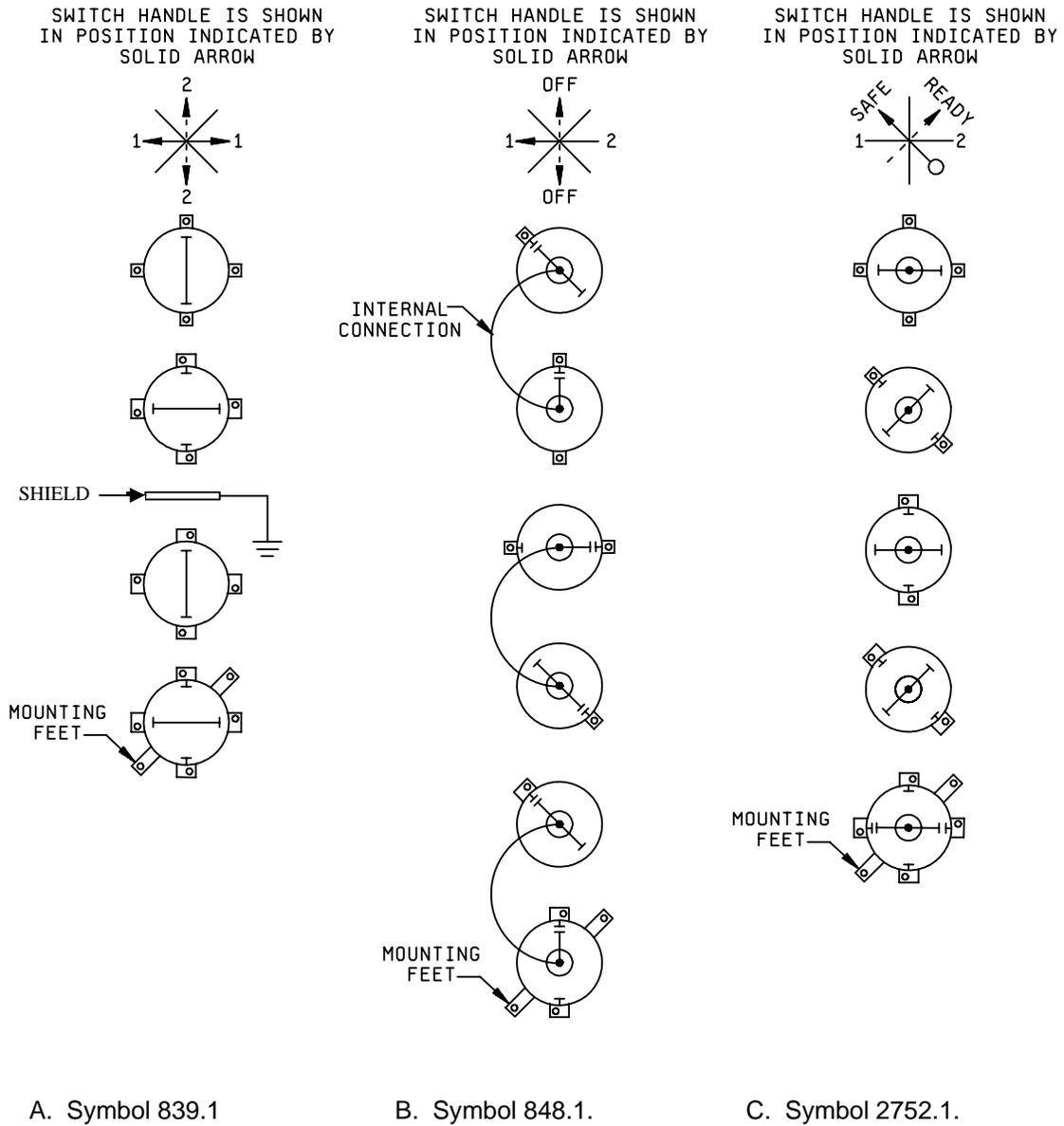


FIGURE 12. Wiring diagrams. (15)(16)(17)

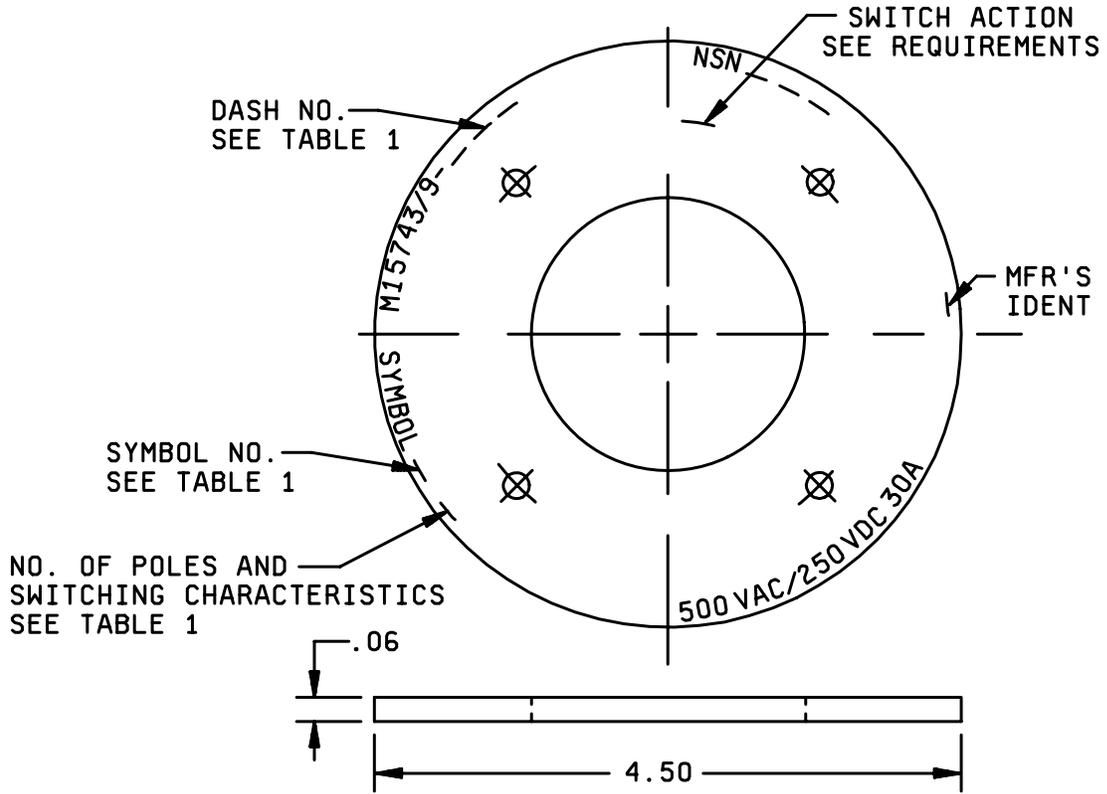


FIGURE 13. Identification plate. (21)

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REQUIREMENTS

SYMBOL NUMBER: See table I.

DESIGN:

Electrical rating: 500 V ac, 60 Hz, 250 V dc, 0-30 ampere.

Dimensions and configuration: See figures 1 through 10.

Wiring diagram: See figure 12 a, b, and c.

Mounting dimensions: See figure 11.

Degree of enclosure: Submersible (15 feet).

Weight:

(a) Symbol 839.1 6 pounds maximum.

(b) Symbol 848.1 6 pounds maximum.

(c) Symbol 2752.1 7 pounds maximum.

Designation and marking: See figure 12.

Identification data shall be blank, as shown on figure 13. Unless otherwise specified in the ordering data, switch action marking shall be blank.

Parts: The parts shown in table II and as specified in MIL-DTL-15743 shall be used in the construction of the switches specified herein.

GENERAL INFORMATION:

Military part number and general information are as shown in table I.

TABLE I. Military part numbers and general information.

Military part no.	Symbol no.	No. of poles and switching characteristics	Supersedes <u>1/</u>
			Type
M15743/9-001	839.1	4PDT	3SR4C4-2
M15743/9-002	848.1	TPDT	3SR3B4-2
M15743/9-003	2752.1	SPECIAL	3SR7S4-2

1/ From NAVSEA Drawing 9000-S6202-74276.

ORDERING DATA:

Acquisition documents should specify the following:

Switch action marking, if required (see requirements).

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TABLE II. Parts list.

Item no. <u>1/</u>	Description	Quantity M15743/9-			Material/ specification	Remarks
		001	002	003		
01	Switch, enclosed (sym 839.1)	-				See figure 1
02	Switch, enclosed (sym 848.1)		-			See figure 1
03	Switch, enclosed (sym 2752.1)			-		See figure 1
04	Enclosure	1	1	1	Brass, MIL-E-24142/5 (modified)	See figure 2 & 3 M24142/5-003 <u>2/</u>
05	O-ring	1	1	1	SAE-AS28775-010	----
06	Handle	1			Copper alloy ASTM-B584	See figure 4a
07	Handle		1		Brass, alloy ASTM-B584	See figure 4b
08	Handle			1	CRES, or equivalent	See figure 4c
09	Handle knob			1	Plastic, type FBG of MIL-I-24768	See figure 5
10	Knob pin			1	CRES, or SAE-AMS- QQ-S-763	See figure 6
11	Shaft assembly	1	1	1	----	See figure 7
12	Shaft	1	1	1	Ni-Cu alloy of QQ-N-281	See figure 8
13	Coupler	1	1	1	Brass, ASTM-B36/B36M, ASTM-B121/B121M	See figure 9
14	Coupler plate	1	1	1	CRES, or equivalent	See figure 10
15	Wiring diagram	1			MIL-E-2036	See figure 12a
16	Wiring diagram		-		MIL-E-2036	See figure 12b
17	Wiring diagram			-	MIL-E-2036	See figure 12c
18	Switch (type 3SR4C4)	1			MIL-DTL-15291/7	M15291/7-015
19	Switch (type 3SR3B4)		1		MIL-DTL-15291/7	M15291/7-009
20	Switch (type 3SR7S4)			1	MIL-DTL-15291/7	M15291/7-018
21	Identification plate	1	1	1	ASTM-B36/B36M, ASTM-B121/B121M	See figure 13

1/ Numbers in circles shown on the figures are the same as the item numbers shown in this table.

2/ Modified enclosure cover (See figure 3).

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Referenced documents: in addition to MIL-DTL-15743, this document references the following:

MIL-DTL-15291/7

MIL-E-2036

MIL-E-24142/5

MIL-I-24768

QQ-N-281

ASTM-B36/B36M

ASTM-B121/B121M

ASTM-B584

SAE-AMS-QQ-S-763

NAVSEA DWG 9000-S6202-74276

The margins of this specification are marked with vertical lines to indicate where changes from the previous issue 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 and relationship to the last previous issue.

Custodian:
Navy - SH
DLA - CC

Preparing activity:
DLA - CC

(Project 5930-2007-014)

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/>.