

INCH-POUND
MIL-DTL-15743/3C
28 February 2007
SUPERSEDING
MIL-DTL-15743/3B
26 November 2002

DETAIL SPECIFICATION SHEET

SWITCHES, ROTARY, ENCLOSED, SUBMERSIBLE (15 FEET),
SNAP ACTION, 125 VOLTS ALTERNATING CURRENT, 10 AMPERE,
SYMBOLS 801.2 (DPST), 804.1 (TPST), 829.1 (DPDT), AND 879.1 (DPTT)

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.

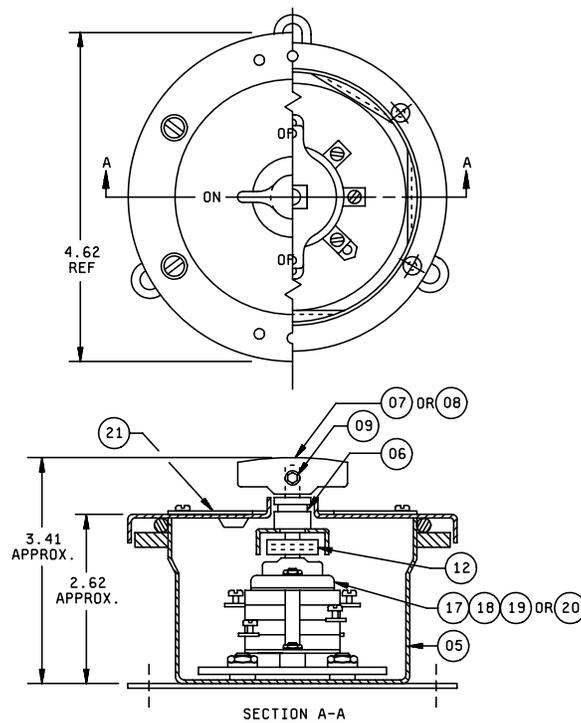


FIGURE 1. Switch enclosed. (01, 02, 03, 04)
(-001 shown)

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.

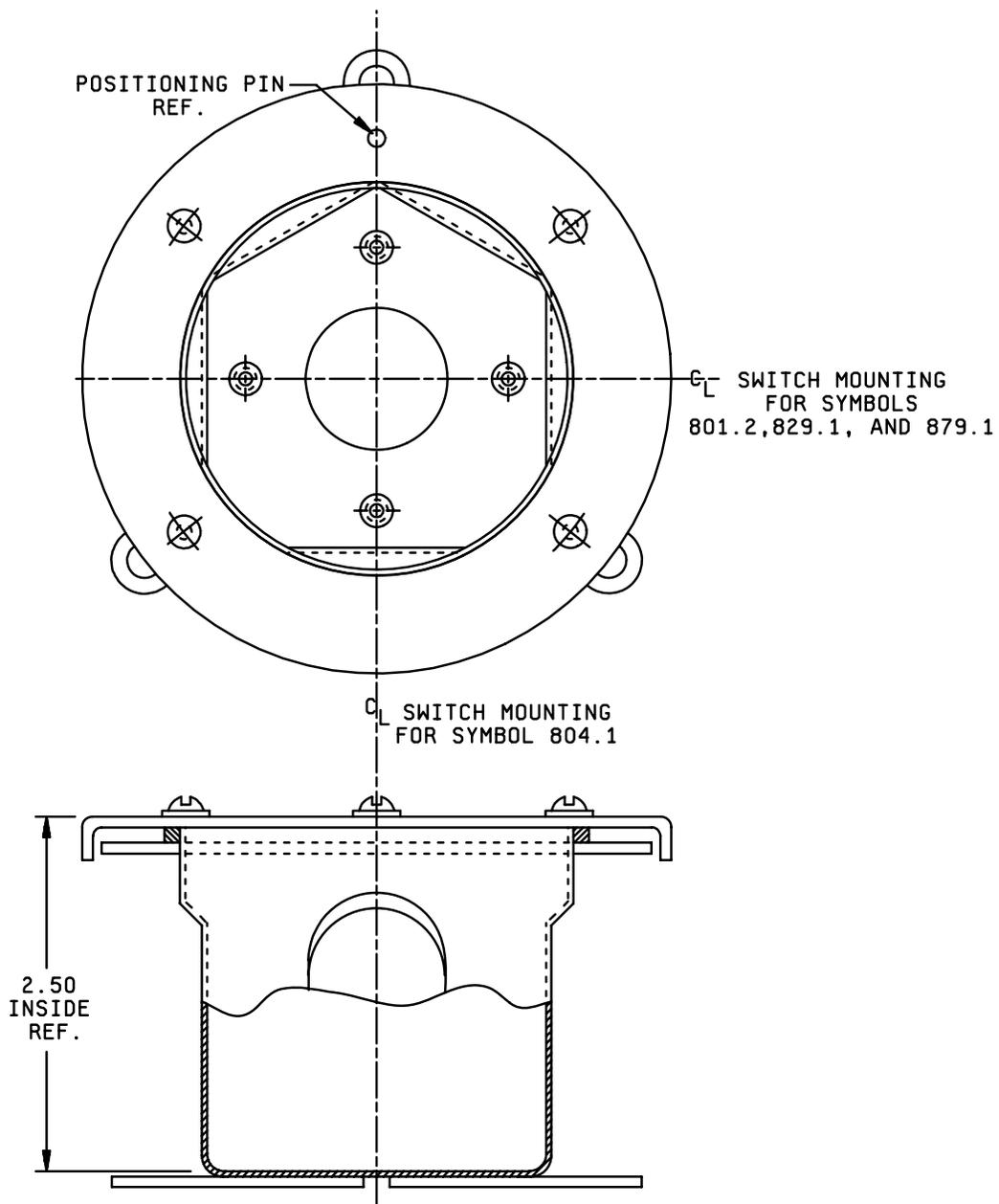


FIGURE 2. Box assembly.

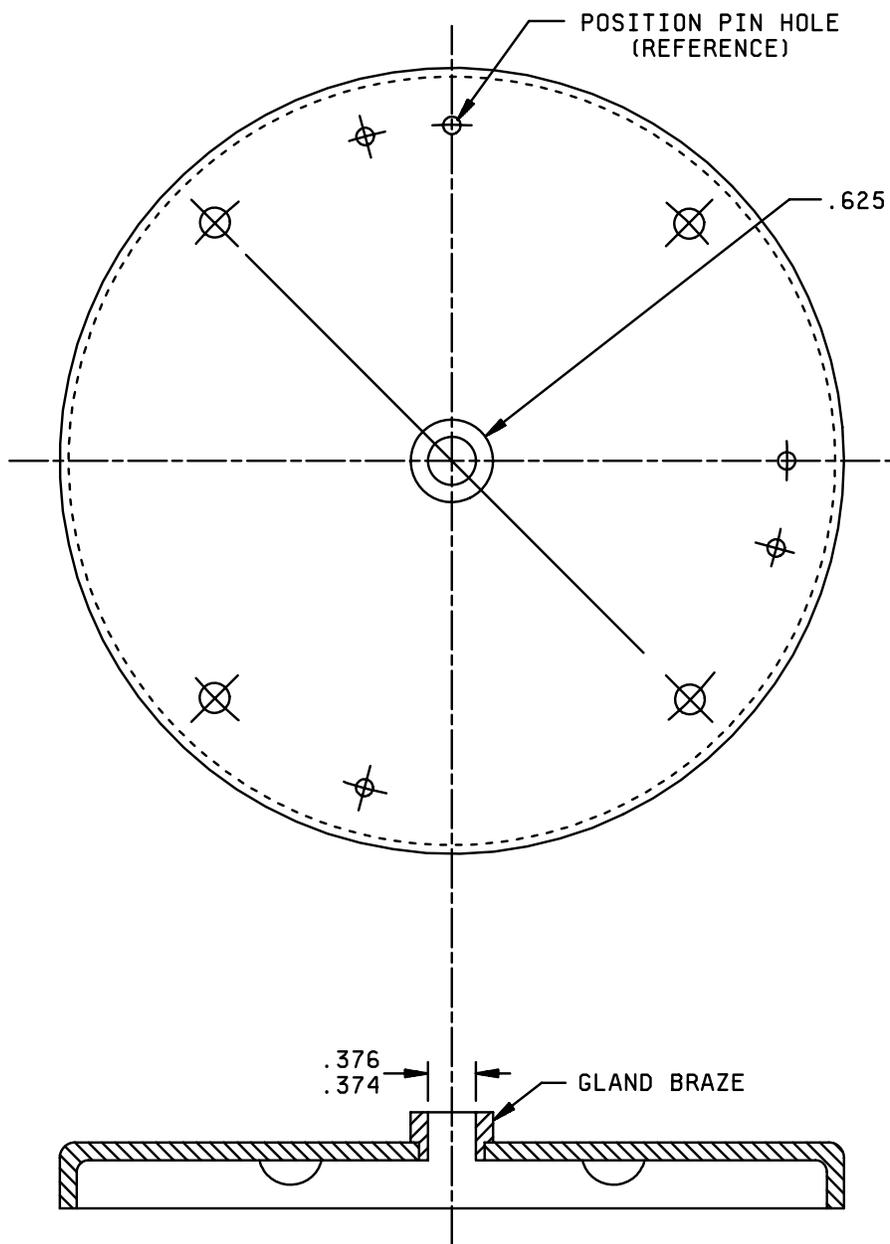
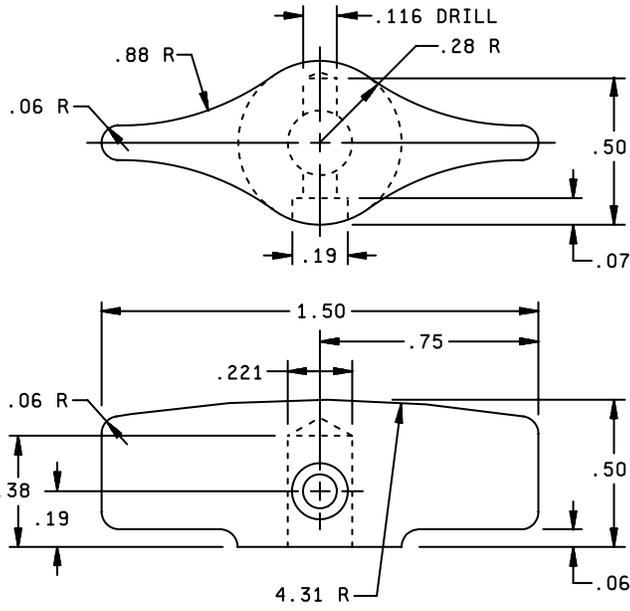
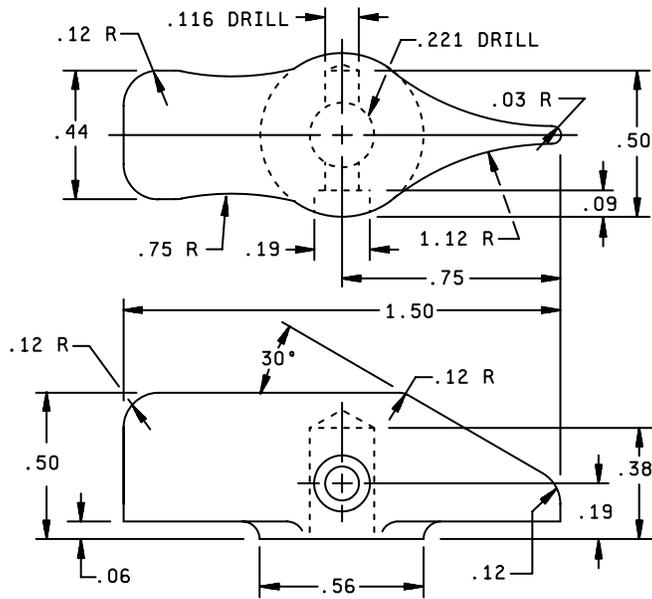


FIGURE 3. Cover assembly.

MIL-DTL-15743/3C



A. SYMBOLS 801.2, 804.1, AND 829.1



B. SYMBOL 879.1

FIGURE 4. Handles. (07)(08)

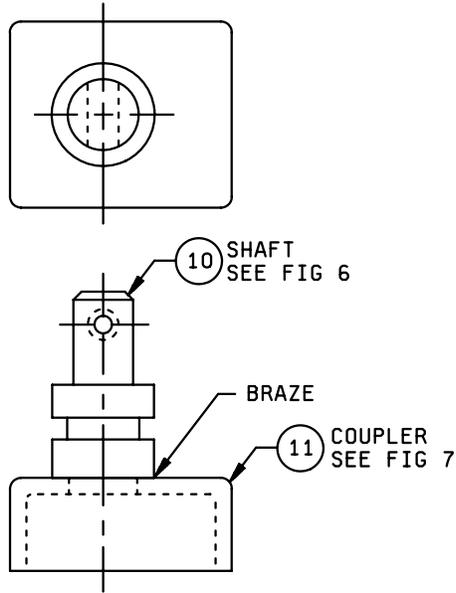


FIGURE 5. Shaft assembly. (10)

63/ ALL OVER, EXCEPT AS NOTED

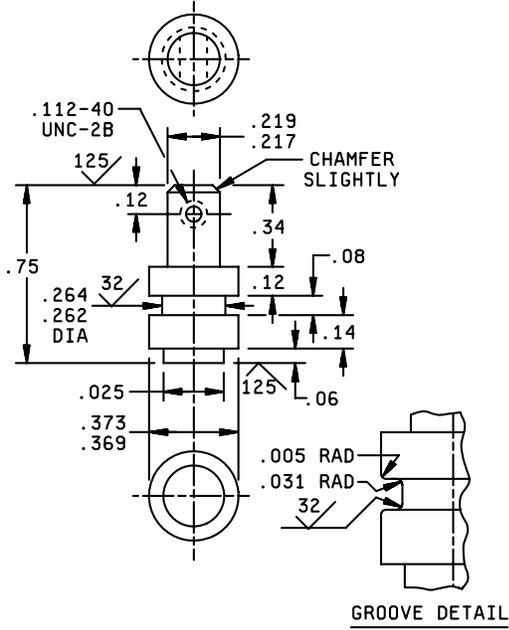


FIGURE 6. Shaft. (10)

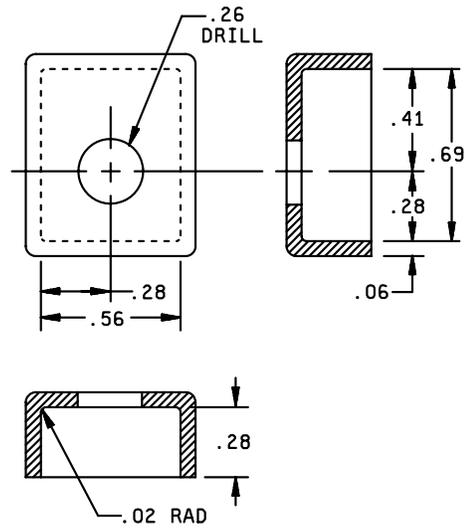


FIGURE 7. Coupler. (11)

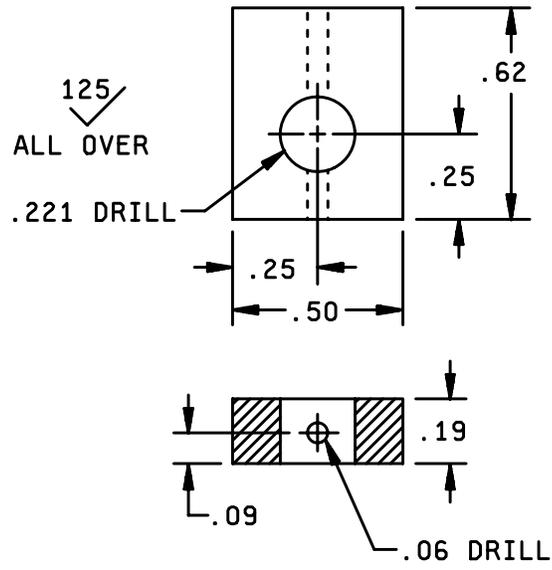


FIGURE 8. Coupler plate. (12)

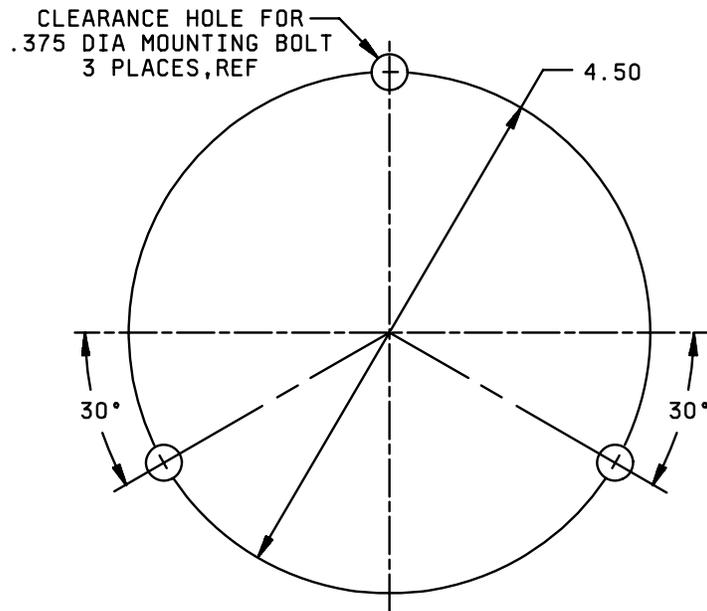


FIGURE 9. Mounting dimensions, ref.

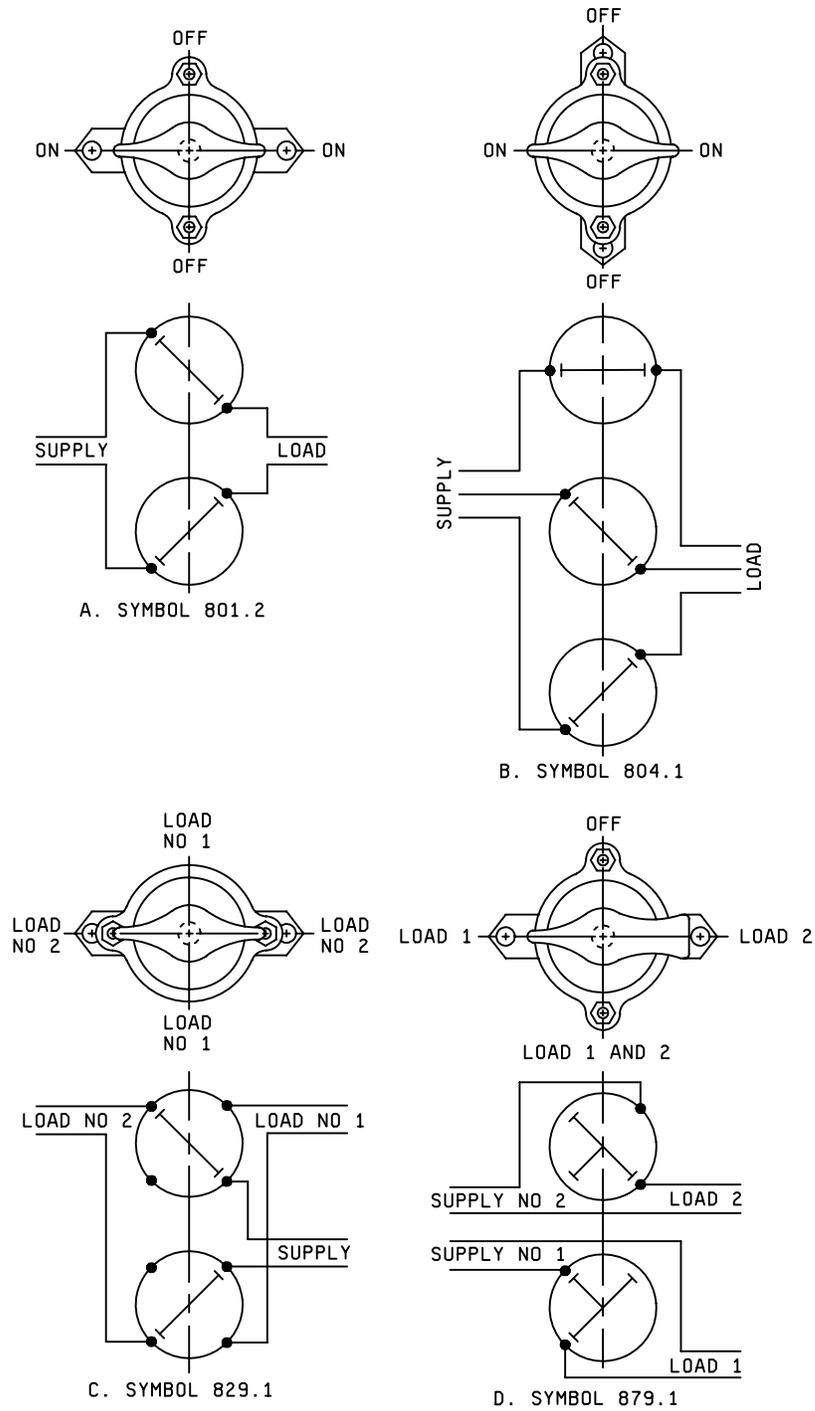


FIGURE 10. Wiring diagrams. (13)(14)(15)(16)

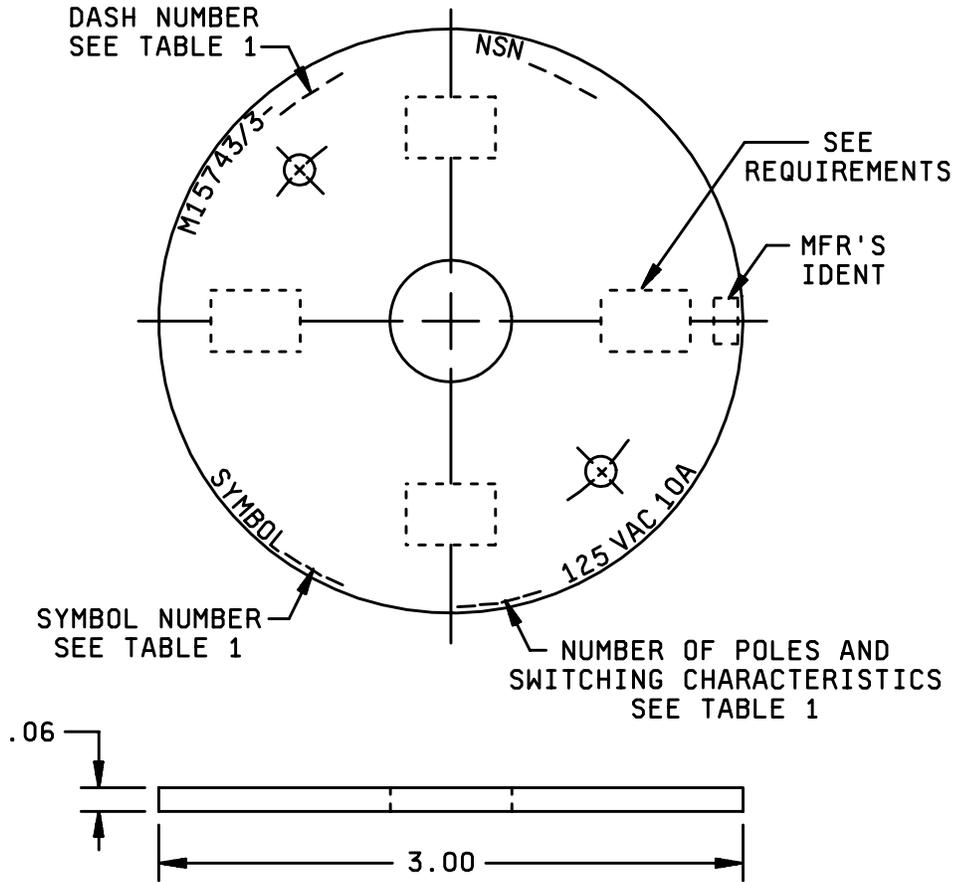


FIGURE 11. Identification plate (21)

REQUIREMENTS

SYMBOL NUMBER: See table I.

DESIGN:

Electrical rating: 125 V ac, 0-10 ampere, 60 Hz.

Dimensions and configuration: See figures 1 through 8.

Wiring diagram: See figure 10.

Mounting dimensions: See figure 9.

Degree of enclosure: Submersible (15 feet).

Weight:

(a) Symbols 801.2, 804.1, and 829.1, 2 pounds maximum.

(b) Symbol 879.1, 3 pounds maximum.

Designation and marking: See figure 11.

Identification data shall be as shown on figure 11. Unless otherwise specified in the ordering data,

ON-OFF switch action marking shall be as shown on figure 10 and all others shall be left 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 number and general information.

Military part no.	Symbol no.	No. of poles and switching characteristics	Supersedes <u>1/</u>
			Type
M15743/3-001	801.1	DPST	1SR2A4-4
M15743/3-002	804.1	TPST	1SR3A4-2
M15743/3-003	829.1	DPDT	1SR2C4a-2
M15743/3-004	879.1	DPTT	1SR2F4-2

1/ From NAVSEA Drawing 9000-S6202-74207.

ORDERING DATA:

Acquisition documents should specify the following:

Switch action marking, if required (see requirements).

MIL-DTL-15743/3C

TABLE II. Parts list.

Item no. <u>1</u> /	Description	Quantity M15743/3-				Material/ specification	Remarks
		001	002	003	004		
01	Switch, enclosed (sym 801.2)	-					See figure 1
02	Switch, enclosed (sym 804.1)		-				See figure 1
03	Switch, enclosed (sym 829.1)			-			See figure 1
04	Switch, enclosed (sym 879.1)				-		See figure 1
05	Enclosure	1	1	1	1	Brass, MIL-E-24142/5 (modified)	See figure 2 & 3 M24142/5-001
06	O-ring	1	1	1	1	SAE-AS28775-010	----
07	Handle	1	1	1		Copper alloy ASTM-B584	See figure 4a
08	Handle				1	Copper alloy ASTM-B584	See figure 4b
09	Shaft assembly	1	1	1	1	----	See figure 5
10	Shaft	1	1	1	1	Ni-Cu alloy of QQ-N-281	See figure 6
11	Coupler	1	1	1	1	Brass, ASTM-B36/B36M, ASTM-B121/B121M	See figure 7
12	Coupler plate	1	1	1	1	CRES, or equivalent	See figure 8
13	Wiring diagram	1				MIL-E-2036	See figure 10a
14	Wiring diagram		1			MIL-E-2036	See figure 10b
15	Wiring diagram			1		MIL-E-2036	See figure 10c
16	Wiring diagram				1	MIL-E-2036	See figure 10d
17	Switch (type 1SR2A4)	1				MIL-DTL-15291/3	M15291/3-002
18	Switch (type 1SR3A4)		1			MIL-DTL-15291/3	M15291/3-004
19	Switch (type 1SR2C4a)			1		MIL-DTL-15291/3	M15291/3-016
20	Switch (type 1SR2F4)				1	MIL-DTL-15291/3	M15291/3-021
21	Identification plate	1	1	1	1	ASTM-B36/B36M, ASTM-B121/B121M	See figure 11

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

MIL-DTL-15743/3C

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

MIL-DTL-15291/3

MIL-E-2036

MIL-E-24142/5

QQ-N-281

ASTM-B36/B36

ASTM-B121/B121M

ASTM-B584

NAVSEA DWG 9000-S6202-74207

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 5930-2007-018)

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/>.