

INCH-POUND

MIL-DTL-9395/1F

12 August 2024

SUPERSEDING

MIL-DTL-9395/1E

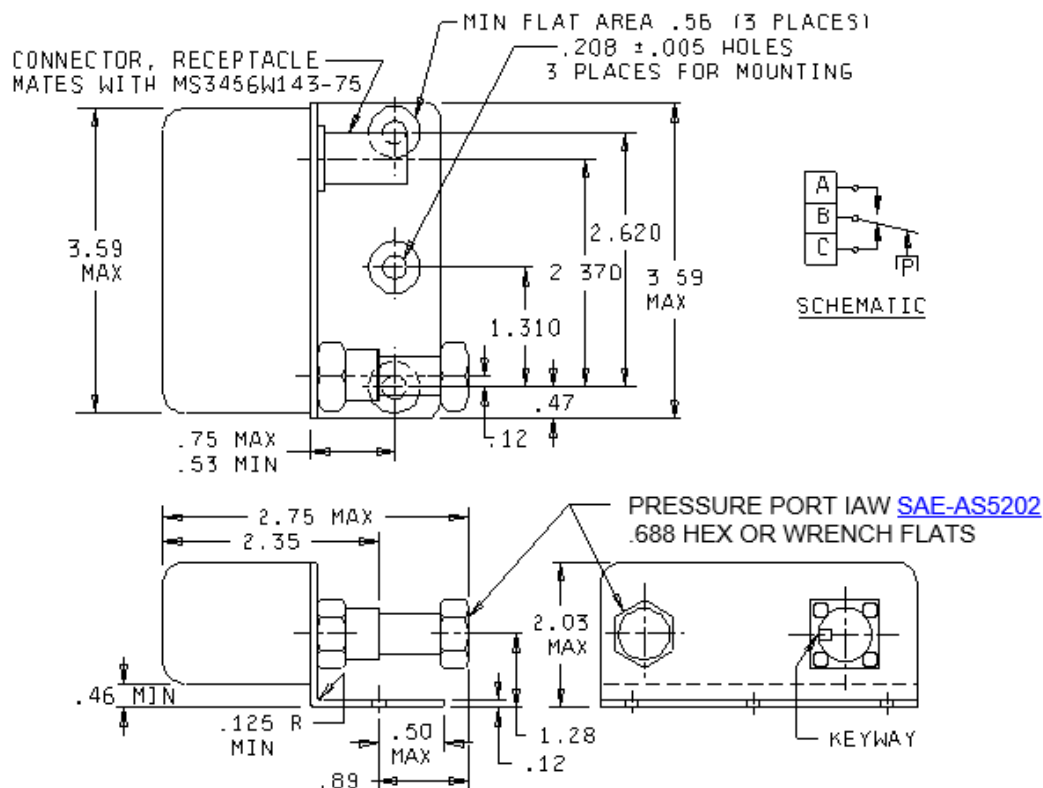
24 September 2018

DETAIL SPECIFICATION SHEET

SWITCHES, PRESSURE (GAGE), TYPE II, SPDT, 3 AMPERES

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

The requirements for acquiring the switches described herein shall consist of this document and [MIL-DTL-9395](#).



NOTES:

1. Dimension are in inches.
2. Unless otherwise specified, tolerances are $\pm .02$ and $.010$.
3. Exact shape of switch optional provided dimensions specified are not exceeded.
4. MS3456W143-75 details are found in [SAE-AS34561](#).

FIGURE 1. Switches.

AMSC N/A

DISTRIBUTION STATEMENT A. Approved for public release. Distribution is unlimited.

FSC 5930



REQUIREMENTS:

Dimensions, configuration, and electrical schematic: See figure.

Weight: 0.5 pound maximum.

Calibration: See table I.

Tolerance: See table I.

Proof pressure: 4,500 psig.

System pressure: 3,100 psig.

Burst pressure: 7,500 psig.

Electrical ratings:

Operating voltage: 18 to 30 V dc.

Current rating: 3 amperes resistive.

1 ampere inductive, L/R ratio .026

Seal:

Electrical chamber: Unsealed.

Pressure chamber: Water tight.

Reference chamber: Unsealed.

Media: Hydraulic fluid [MIL-PRF-6083](#).

High temperature:

Operating - B (275°F).

Nonoperating - C (350°F).

Altitude: C (70,000 feet).

Shock: C (100 G).

Vibration: S (test condition D of [MIL-STD-202-204](#) except 10-2,000 Hz, 20 G).

Life mechanical: A (100,000 cycles).

Life electrical: C (50,000 cycles).

Acceleration: C (8 G).

Pulsation amplitude: E (10 percent).

Pulsation frequency: D (500 $\pm$ 50 Hz).

Pressure surge: F (500,000 psi/sec).

Dielectric withstanding voltage (at reduced barometric pressure): Applicable.

Connector torque: Applicable.

Dynamic (moving) seals such as piston with O rings are not acceptable.

The unit shall be factory set with no external means of adjustment.

TABLE I. Dash number and pressure switch settings.

Dash no.	Pressure switch settings	
	Increasing psig	Decreasing psig
01	1,500 $\pm$ 50	1,300 $\pm$ 100
02	Before 700	350 $\pm$ 50
03	2,850 $\pm$ 100	2,550 $\begin{smallmatrix} +100 \\ -50 \end{smallmatrix}$

Part number: M9395/1-(dash number from table I).

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 previous issue.

Referenced Documents:

[MIL-PRF-6083](#)
[MIL-DTL-9395](#)
[MIL-STD-202-204](#)
[SAE-AS5202](#)
[SAE-AS34561](#)

Custodians:

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

Preparing activity:
DLA - CC

(Project 5930-2024-045)

Review activities:

Navy - MC, SH

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 <https://assist.dla.mil/>.