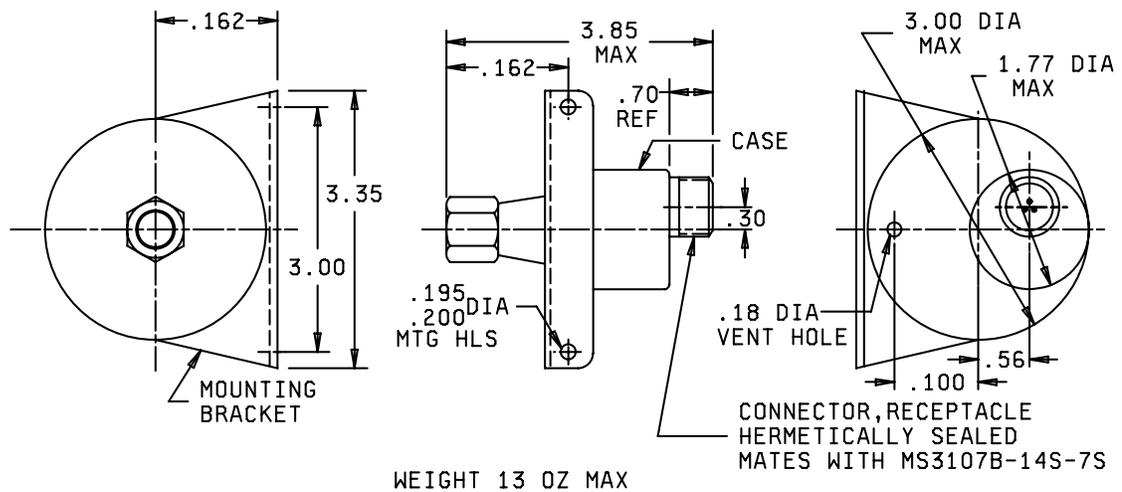


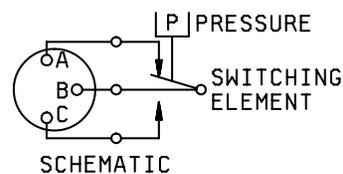
DETAIL SPECIFICATION SHEET  
SWITCHES, PRESSURE, (GAGE), TYPE II, SPDT, 10 AMPERES

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.



Inches	mm	Inches	mm
.18	4.6	1.00	25.4
.195	4.95	1.62	41.1
.200	5.08	1.77	45.0
.30	7.6	3.00	76.2
.4375	11.113	3.35	85.1
.56	14.2	3.85	97.8
.70	17.8		



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm.
3. Unless otherwise specified, tolerance is  $\pm .02$  (.51 mm).
4. Exact shape of switch optional provided dimensions specified are not exceeded.

FIGURE 1. Switches.

MIL-DTL-9395/8E

REQUIREMENTS:

Dimensions, weight, and electrical schematic: See figure 1.

Calibration: See tables I, II, III, and IV.

Proof pressure: 120 lb<sub>f</sub>/in<sup>2</sup>.

System pressure: 60 lb<sub>f</sub>/in<sup>2</sup>.

Burst pressure: 180 lb<sub>f</sub>/in<sup>2</sup>.

Electrical ratings:

Operating voltage: 28 Vdc.

Current rating: 10 amperes resistive.

Seal:

Electrical chamber: Hermetic.

Pressure chamber: Watertight.

Reference chamber: Unsealed.

Electrical connector: See figure 1.

Pressure port: See figure 1.

Media: Dry air; nitrogen; fuel IAW MIL-DTL-5624; including oil IAW MIL-PRF-7808; or hydraulic fluid IAW MIL-PRF-6083.

High temperature (operating and nonoperating): B (except +250°F).

Low temperature (operating and nonoperating): D (-65°F).

Altitude: C (except 80,000 feet).

Shock: C (100 G).

Vibration: S (test condition C, method 204 of MIL-STD-202 except 10 - 2,000 Hz, 10 G).

Life (mechanical): F (50,000 cycles).

Life (electrical): C (50,000 cycles).

Acceleration: C (8 G).

Pulsation amplitude: A (0 percent).

Pulsation frequency: A (0 Hz).

Pressure rise: A (less than 100 lb<sub>f</sub>/in<sup>2</sup>/sec).

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

Connector torque: Applicable.

QUALIFICATION:

Single submission: Restricted to switch submitted.

Group submission: See table V.

MIL-DTL-9395/8E

PART NUMBER: The part number shall consist of the prefix "M9395/08-" followed in sequence by appropriate characters from tables I, II, III, IV, II, III, and IV to describe high and low pressure settings and tolerances. Part number M9395/08-AWAQH NK identifies a pressure switch with pressure setting modes on "AT" at both high and low settings (a high pressure setting of  $40 \pm 2 \text{ lb}_f/\text{in}^2$  and a low pressure setting of  $15 \pm 1 \text{ lb}_f/\text{in}^2$ ).

EXAMPLE:

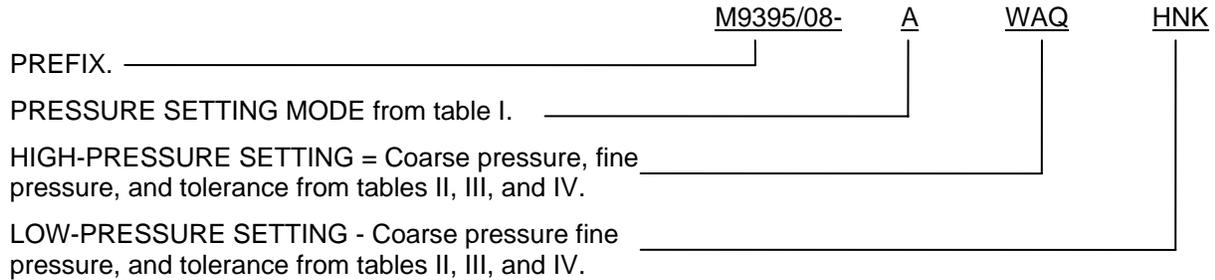


TABLE I. Code for switch setting mode.

Code	High pressure setting mode	Low pressure setting mode
A	AT	AT
B	AT	Differential with respect to higher pressure setting
C	Differential with respect to lower pressure setting	AT

TABLE II. Code character for coarse pressure setting.

Code character for pressure setting (coarse) within $2 \text{ lb}_f/\text{in}^2$	Pressure setting ( $\text{lb}_f/\text{in}^2$ )	Code character for pressure setting (coarse) within $2 \text{ lb}_f/\text{in}^2$	Pressure setting ( $\text{lb}_f/\text{in}^2$ )
A	0	S	32
B	2	T	34
C	4	U	36
D	6	V	38
E	8	W	40
F	10	X	42
G	12	Y	44
H	14	Z	46
J	16	3	48
K	18	4	50
L	20	5	52
M	22	6	54
N	24	7	56
P	26	8	58
Q	28	9	60
R	30		

TABLE III. Character denoting increment to be added to coarse pressure setting.

Code	Increment (lb <sub>f</sub> /in <sup>2</sup> ) to be added to coarse pressure setting	Code	Increment (lb <sub>f</sub> /in <sup>2</sup> ) to be added to coarse pressure setting
A	0	N	1.0
B	0.1	P	1.1
C	0.2	Q	1.2
D	0.25	R	1.25
E	0.3	S	1.3
F	0.4	T	1.4
G	0.5	U	1.5
H	0.6	V	1.6
J	0.7	W	1.7
K	0.75	X	1.75
L	0.8	Y	1.8
M	0.9	Z	1.9

TABLE IV. Character denoting tolerance on pressure setting.

Code	Tolerance ± (lb <sub>f</sub> /in <sup>2</sup> )	Code	Tolerance ± (lb <sub>f</sub> /in <sup>2</sup> )
A	Max	S	2.50
B	Min	T	2.75
C	.1	U	3.0
D	.2	V	3.25
E	.3	W	3.50
F	.4	X	4.0
G	.5	Y	4.5
H	.6	Z	5.0
J	.8	1	5.5
K	1.0	2	6.0
L	1.2	3	6.5
M	1.4	4	7.0
N	1.6	5	7.5
P	1.8	6	8.0
Q	2.0	7	9.0
R	2.25	8	10.0

SUPPRESSION DATA: Part number M9395/08-01 is superseded by part number M9395/08-ABRABKB.

TABLE V. Extent of qualification.

Part number	Number of samples required	Tests	Qualifies
MS9395/08-ACBAAAB	2	Complete IAW qualification inspection of MIL-DTL-9395	All pressure setting modes
MS9395/08-ANAGQAC	2		
MS9395/08-A7UG8QC	2		

NOTES:

1. Design limitations (actuation values and tolerances, deadband and deactuation values and tolerances) should be coordinated with manufacturer(s) listed on the QPL for this specification sheet before specifying a particular "M" number. The fact that operating characteristics can be coded does not necessarily mean that it can be manufactured or procured.

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Referenced Documents:

MIL-DTL-5624  
MIL-PRF-6083  
MIL-PRF-7808  
MIL-DTL-9395  
MIL-STD-202

Custodians:

Army - CR  
Navy - EC  
Air Force - 11  
DLA - CC

Preparing activity:

DLA - CC

(Project 5930-2006-046)

Review activities:

Army - AV  
Navy - MC, SH  
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/>.