

INCH-POUND

MIL-PRF-8932/1A

27 August 1998

SUPERSEDING

MIL-S-8932/1

12 August 1980

## PERFORMANCE SPECIFICATION SHEET

### SWITCHES, PRESSURE, BULKHEAD MOUNTED, AIRCRAFT, ABSOLUTE, CLASS 1

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 sheet and MIL-PRF-8932.

#### REQUIREMENTS:

1. Dimensions, operating pressure ranges and tolerances. The dimensions, operating pressure ranges, and tolerances shall be as specified in table I.
2. Pressure port designations. The designation "P" shall be permanently and legibly stamped on the switch case directly adjacent to the switch's pressure port (see figures 1 and 2).
3. Superseding part numbers. The canceled part numbers and the corresponding superseding part numbers are as shown in table II.
4. Intended use. The pressure switches covered by this specification sheet are used in F-18 military aircraft. These aircraft are exposed for prolonged periods to extreme seagoing environments not encountered by commercial aircraft.
5. Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to previous issue due to the extent of the changes.

TABLE I. Dimensions, operating pressure ranges and tolerances.

Dash no.	Potential operating range in. Hg abs	Normal system pressure in. Hg abs	Tolerance $\pm$ in. Hg abs	Max. AC current amperes	Max. DC current amperes	Max. weight Lbs	Schematic figures	Dim. K inch Max.	Dim. L inch	Dim. W inch
-1A	0.1 - 1.0	30	.06	5	3	1.75	1	2.312	4.400	2.300
-2A	0.1 - 1.0	30	.06	5	3	2.00	2	2.312	4.400	2.300
-7A	1.0-10.0	30	.60	5	3	1.75	1	2.312	4.400	2.300
-8A	1.0-10.0	30	.60	5	3	2.00	2	2.312	4.400	2.300
-9A	2.0-15.0	30	.75	5	3	1.75	1	2.312	4.400	2.300
-10A	2.0-15.0	30	.75	5	3	2.00	2	2.312	4.400	2.300
-15A	3.0-27.0	30	1.40	5	3	1.75	1	1.344	3.700	1.200
-16A	3.0-27.0	30	1.40	5	3	2.00	2	2.312	4.400	2.300
-19A	4.0-36.0	40	1.90	8	4	1.50	1	1.344	3.700	1.200
-20A	4.0-36.0	40	1.90	8	4	1.75	2	2.312	4.400	2.300
-23A	5.0-50.0	55	3.00	8	4	1.50	1	1.344	3.700	1.200
-24A	5.0-50.0	55	3.00	8	4	1.75	2	2.312	4.400	2.300
-25A	6.0-63.0	70	3.10	10	5	1.25	1	1.344	3.700	1.200
-26A	6.0-63.0	70	3.10	10	5	1.50	2	2.312	4.400	2.300

TABLE I. Dimensions, operating pressure ranges and tolerances – (continued).

Dash no.	Potential operating range in. Hg abs	Normal system pressure in. Hg abs	Tolerance $\pm$ in. Hg abs	Max. AC current amperes	Max. DC current amperes	Max. weight Lbs	Schematic figures	Dim. K inch. Max.	Dim. L inch.	Dim. W inch.
-27A	8.0-72.0	80	3.40	10	5	1.25	1	1.344	3.700	1.200
-28A	8.0-72.0	80	3.40	10	5	1.50	2	2.312	4.400	2.300
-29A	9.0-90.0	100	4.10	12	7	1.25	1	1.344	3.700	1.200
-30A	9.0-90.0	100	4.10	12	7	1.50	2	2.312	4.400	2.300
-31A	10.0-135.0	150	6.00	12	7	1.25	1	1.344	3.700	1.200
-32A	10.0-135.0	150	6.00	12	7	1.50	2	2.312	4.400	2.300

## MIL-PRF-8932/1A

TABLE II. Superseding part numbers.

Superseding part numbers	Canceled part numbers
M8932/1-1A	MS25276-1A
M8932/1-2A	MS25276-2A
M8932/1-7A	MS25276-7A
M8932/1-8A	MS25276-8A
M8932/1-9A	MS25276-9A
M8932/1-10A	MS25276-10A
M8932/1-15A	MS25276-15A
M8932/1-16A	MS25276-16A
M8932/1-19A	MS25276-19A
M8932/1-20A	MS25276-20A
M8932/1-23A	MS25276-23A
M8932/1-24A	MS25276-24A
M8932/1-25A	MS25276-25A
M8932/1-26A	MS25276-26A
M8932/1-27A	MS25276-27A
M8932/1-28A	MS25276-28A
M8932/1-29A	MS25276-29A
M8932/1-30A	MS25276-30A
M8932/1-31A	MS25276-31A
M8932/1-32A	MS25276-32A

MIL-PRF-8932/1A

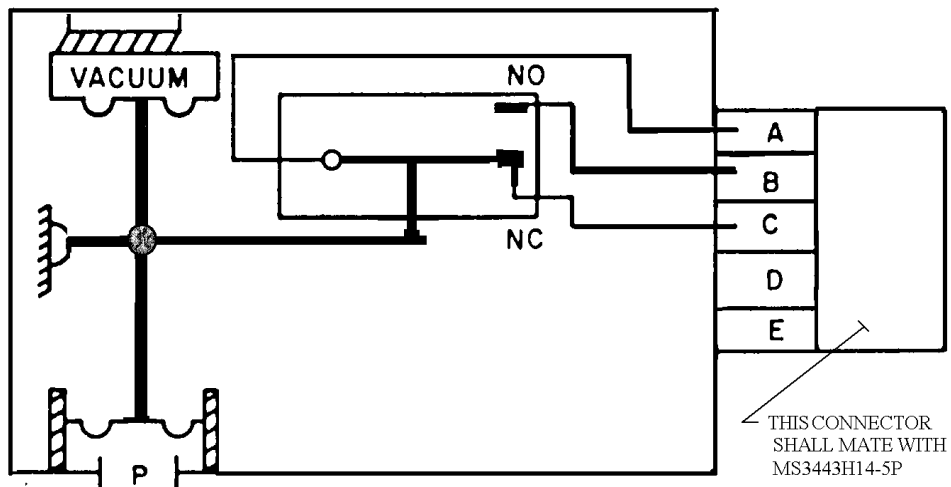


FIGURE 1. Absolute pressure switch schematic, pressure port open.  
(2 contacts)

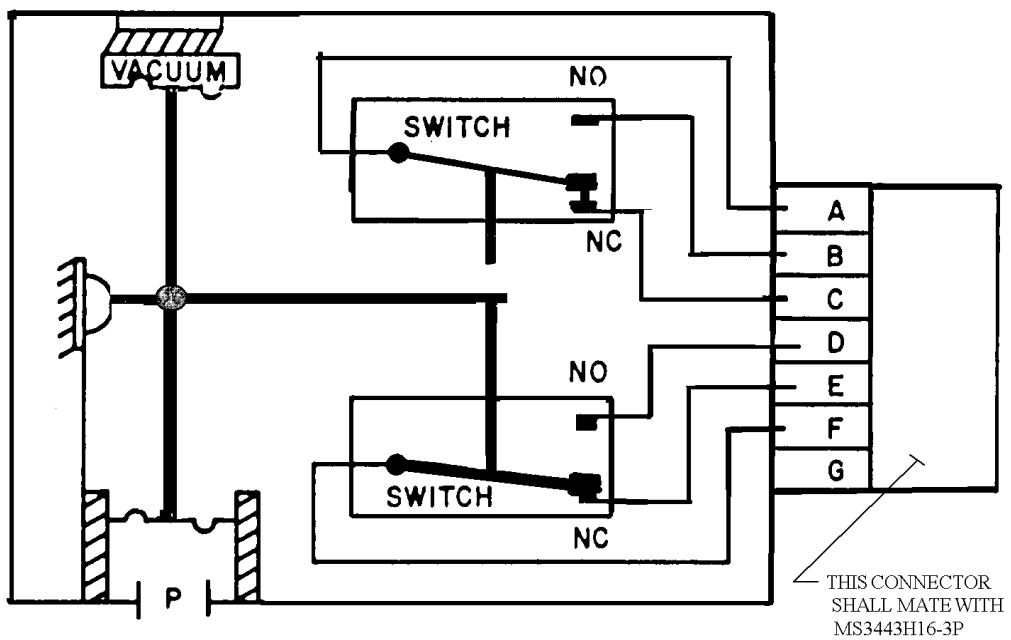


FIGURE 2. Absolute pressure switch schematic, pressure port open.  
(4 contacts)

MIL-PRF-8932/1A

CONCLUDING MATERIAL

Custodians:  
Army - AV  
Navy - AS  
Air Force - 99

Preparing Activity:  
Navy - AS  
  
(Project 1650-0597)

Review Activities:  
Army - MI  
Navy - MC  
Air Force - 71  
DLA - CC