

OPERATING INSTRUCTIONS FOR MITE 73
(C-9073-02)

GENERAL

1. Instrument air signal is connected to either one of the two "A" connections provided. If the other "A" connection is not used, it must be plugged to prevent loss of instrument signal pressure.
2. MITE trips when signal at "A" decreases to pre-established "trip setting."
3. The "B" output connection is locked up when MITE is tripped. The "C" output connections are vented to atmosphere when MITE is tripped. Either "B" or "C" must be plugged if not required, to prevent loss of instrument signal pressure. However, both may be used simultaneously.
4. To adjust "trip setting":
 - a. Loosen locknut (2).
 - b. Turn adjusting screw (1) counterclockwise until it disengages ball (3) at top of spring assembly.
 - c. Establish trip-out pressure condition at "A."
 - d. Press manual reset button (11) to put MITE in operation.
 - e. Turn adjusting screw slowly clockwise until trip occurs.
 - f. Retighten locknut.
5. After the instrument signal pressure has been restored to approximately 10% above the "trip setting," the MITE can be reset by pressing the manual reset button (11).

HOW TO ALTER RANGE OF AVAILABLE TRIP SETTINGS

1. Trip settings from 1 to 100 PSIG can be obtained by changing the number of springs within the MITE top cover (6).
2. When operating within the trip range 60 to 100 PSIG, all nine springs are employed in accordance with the following layout and color coding:

G
U U
R G R
U U
G

G = green, R = red, and U = uncolored

3. To operate within the trip range 25 to 65 PSIG, remove all of the green springs.
4. To operate within the trip range 1 to 30 PSIG, remove both the green and the red springs.

REMOTE PNEUMATIC TRIP (CONNECTION "D")

1. This connection should be left open to atmosphere when not in use.
2. Pressure applied to connection "D" will cause MITE to trip, provided that pressure applied is greater than the difference between "trip setting" and the instantaneous pressure at "A." Provision must be made to vent "D" to atmosphere after trip has occurred in order to restore MITE to normal operation.
3. MITE can be set to trip on increasing pressure at "D" provided that a constant "supply" pressure (greater than the "D" trip-out pressure) is furnished at "A." This "supply" pressure will appear at "B" and "C" when MITE is in operation. "Trip setting" is adjusted as explained above, except that trip-out pressure conditions must be established at both "A" and "D" before step 4d.

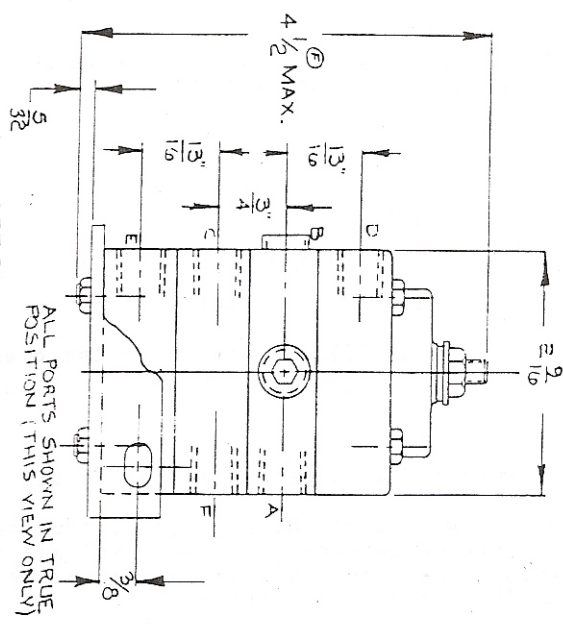
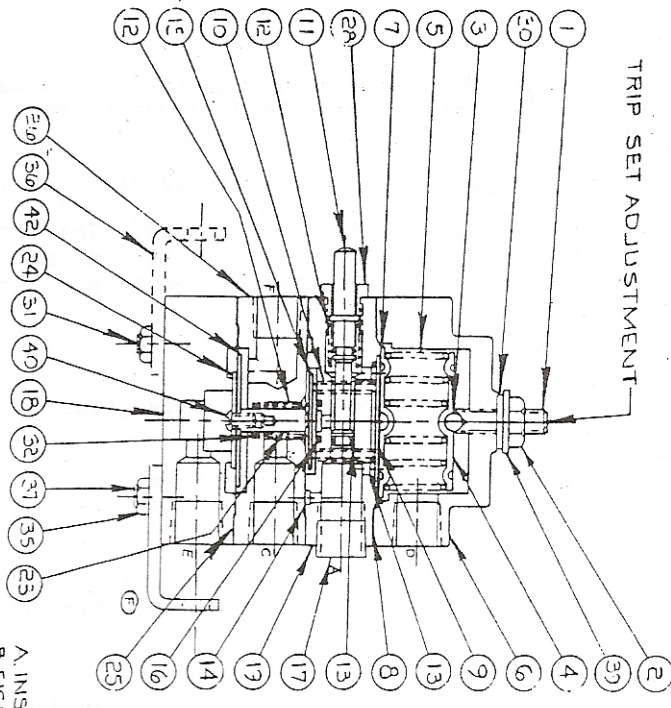
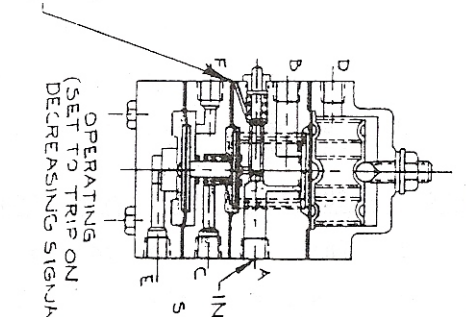
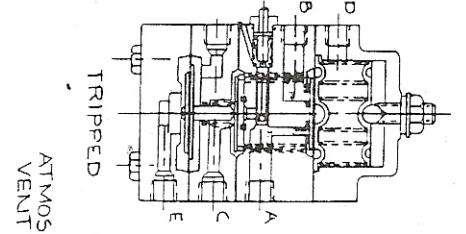
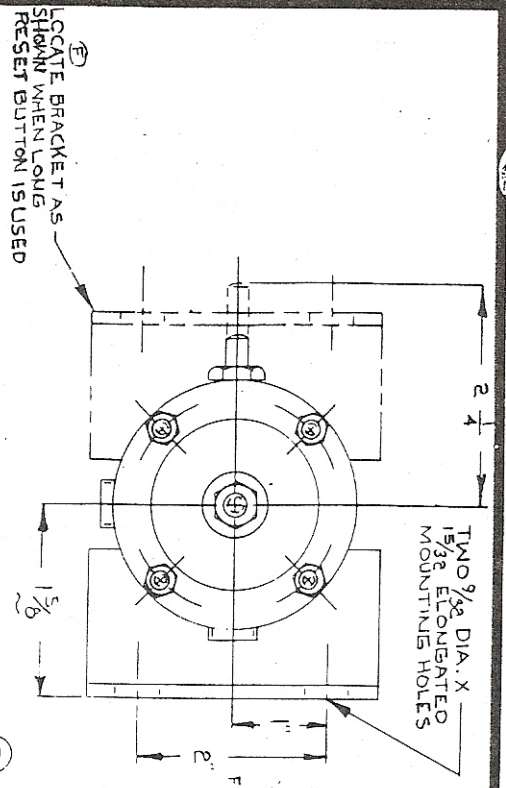
REMOTE PNEUMATIC RESET

1. Unit can be reset by remote pneumatic control by applying at "E" a pressure that is at least the sum of the pressure applied at "F" and twice the "trip setting."
2. After reset has occurred, pressure at "E" must be reduced at least to pressure at "F" in order to restore MITE to normal operation. This could be accomplished by venting to atmosphere.
3. Connections "E" and "F" need not be plugged when not in use.



8 COLUMBIA DRIVE
AMHERST, NH 03031

P/N: 741-622-071



OPERATION
 A. INSTRUMENT AIR SIGNAL INPUT
 B. SIGNAL OUTPUT (LOOK UP ON TRIP)
 C. SIGNAL OUTPUT (VENT TO ATMOS. FOR PNEUMATIC LOADING ON TRIP)
 D. REMOTE PNEUMATIC TRIP
 E. REMOTE PNEUMATIC RESET
 F. FOR PNEUMATIC LOADING TO NULLIFY E PORT

ZONE	LTR	DESCRIPTION	DATE	APPROVED
E		NEW DRAWING	2-9-81	RA LOUVE
F		REV. MADE MOUNTING BRACKET STANDARD. ITEM # 37 DELETED. NOTE 2, TWO OF ITEM 37 ADDED. LOCATE MOUNTING BRACKET WHEN LONG RESET BUTTON IS USED. REV. 4 1/2 WAS 4 3/8 ECP 170. 82c01002-1	7-19-82	JIP

NOTES:
 1. FOR SALES DRAWING REFER TO DWG SD 8038-00
 2. PORT SIZES: 1/4" NPT WITH 1/8" INTERNAL PORTS.
 3. PRESSURE RATING: 100 PSIG. MAX.
 4. TEMPERATURE RATING: -40° TO 180° F

* RECOMMENDED SPARE PARTS

42	1	DIAPHRAGM DISC	ALUM.
40	1	RD. HD. MACH. SCR	BRASS
39	1	WASHER	ST. STEEL
37	2	STUD	ST. STEEL
36	1	BRACKET	AA BLACK
35	1	HEX NUT	S.S.
34	1	O-RING	BUNA N
31	2	STUD	ST. STEEL
30	1	THREADSEAL	MISC
26	1	RESET BUTTON RETAINER	BRASS
25	1	PORT RING	AA BLACK
24	1	LOWER DIAPHRAGM	NRN
23	1	LOWER DIAPH. DISC	ALUM
17	1	ROUTING RING	303 ST. STEEL
15	1	BOTTOM COVER	AA BLACK
17	2	SOCKET PIPE PLUG	BRASS
16	1	O-RING	BUNA. N
15	1	LOWER DIAPH. DISC	ALUM
14	1	GASKET	NEOPRENE
13	4	O-RING	BUNA N
12	2	SPRING	CC STEEL
11	1	RESET BUTTON	BRASS
10	4	PUSHER	303 ST. STEEL
9	1	UPPER DIAPHR. DISC	ALUM
8	1	UPPER DIAPHRAGM	NRN
7	1	LOWERSP'G RETAINER	C. STEEL
6	1	TOP COVER	AA BLACK
4	1	SPRING	C. STEEL
4	1	UPPER SP'G RETAINER	C. STEEL
3	1	GALL	STEEL
2	1	LOCKNUT	ST. STEEL
2	1	ADJUSTING SCR.	ST. STEEL
1	1	ADJUSTING SCR.	ST. STEEL
1	1	ADJUSTING SCR.	ST. STEEL

PARTS LIST

G. W. DAHL CO., INC.
 84 TURELO ST.
 BRISTOL, N. I. 02806

MITE 73 SNAP-ACTING AIR SIGNAL MONITOR

CERTIFIED DIMENSIONALLY CORRECT FOR
 CUSTOMER _____
 P.O. NO. _____
 DAHL NO. _____
 APPROVED BY _____ DATE _____

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (MM) AND ARE FOR REFERENCE ONLY
 FRACTIONS # _____
 ANGULAR # _____
 TWO PLACE DECIMALS # _____
 THREE PLACE DECIMALS # _____
 FINISHED SURFACES ~ RMS
 BREAK SHARP CORNERS
 DO NOT SCALE THIS DRAWING.
 MATERIAL _____
 CONTRACT NO. _____
 DR. JSP
 CHK. VVJ
 ENG. dtd
 APPROVED APPROVED APPROVED
 SEE PARTS LIST
 USED ON
 NEXT ASSY

SIZE CODE IDENT NO. DRAWING NO.
 C 88773 9073-02-0000-500