



MITE 74 Snap-Acting Control Relay with Integral 3-Way Valve

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 adjustment 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 into 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).

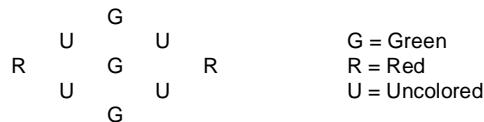
MITE 74 EXPLANATORY NOTES

The MITE 74 will not function as described in the MITE 74 bulletin and instruction sheet given certain operating conditions. These notes of explanation are intended to provide guidance in this area. Consult the factory for further information if needed.

1. The MITE 74 requires the pressure at “A” to be 5 PSIG higher than the pressure at “G”.
2. The unit will not function if the pressure at “H” is higher than the pressure at “I”.

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:



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.

THREE-WAY VALVE

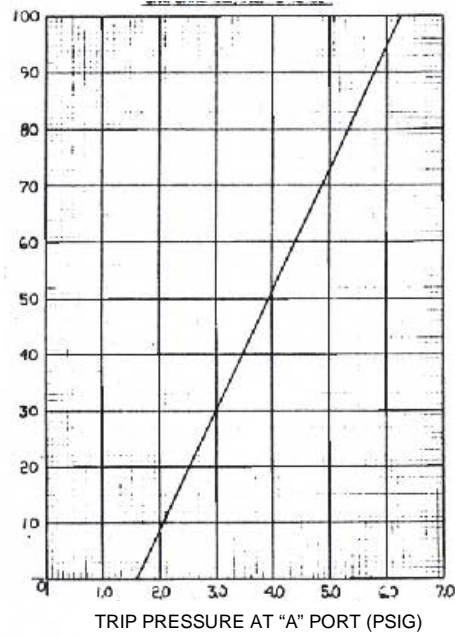
1. MITE 74 is equivalent of MITE 70 with integral three-way valve. “I” is open to “H” when MITE is in operation. “H” is open to “G” when MITE is tripped. “I” closes before “G” opens and vice versa.
2. “G”, “H” and “I” need not be plugged when not in use.
3. Two “C” connections are provided with this model. Either or both must be plugged when not in use.

LIMITED WARRANTY & DISCLAIMER

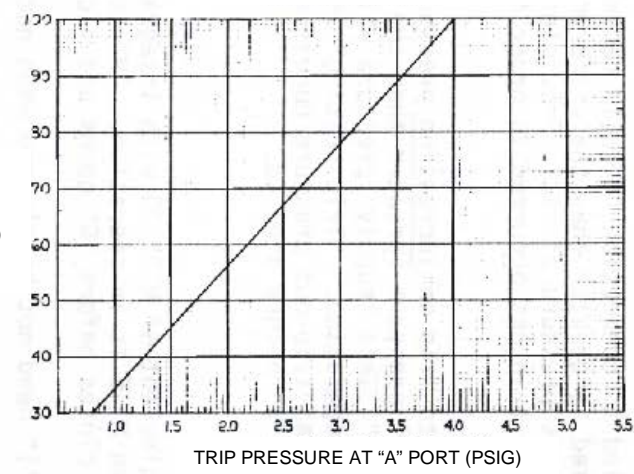
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REVISIONS				
NO.	DATE	DESCRIPTION	BY	APP'D
1	10-21-89	ISSUE

MAXIMUM OPERATING PRESSURE FOR MITE 70 AND MITE 74



MAXIMUM OPERATING PRESSURE FOR MITE 70 AND MITE 74 USING LOW TRIP PRESSURE OPTION



MAXIMUM OPERATING PRESSURE AT "A" PORT (PSIG)

MAXIMUM OPERATING PRESSURE AT "A" PORT (PSIG)

D
C
B
A

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

