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TECHNOLOGY GROUP

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Find the *Malema M-64-B44-000-001* at our website: *Click HERE*

M-64 FIXED STYLE IN-LINE FLOW SWITCH

INSTRUCTION MANUAL



www.malema.com

Caution

Product must be maintained and installed in strict accordance with the National Electrical Code and MALEMA Product catalog and instruction bulletin. Failure to observe this warning could result in serious injuries or damages.

An appropriate explosion-proof enclosure or intrinsically safe interface device must be used for hazardous area applications involving such things as (but not limited to) ignitable mixtures, Combustible dust and flammable materials. Pressure and temperature limitations shown on individual catalog pages and drawings for the specified flow switches must not be exceeded. These pressure and temperature takes into consideration possible system surge pressure/temperatures and their frequencies.

Selection of materials for compatibility with the media is critical to the life and operation of MALEMA flow switches. Take care in the proper selection of materials of construction; particularly wetted materials Life expectancy of switch contacts varies with applications. Contact MALEMA if life cycle testing is required.

Ambient temperature changes do affect switch set points. Since the specific gravity of a liquid can vary with temperature. Flow switches have been designed to resist shock and vibration; however, shock and vibration should be minimized. Liquid media containing particulate and/or debris should be filtered to ensure proper operation of MALEMA products. Electrical entries and mounting points may require liquid/vapor sealing if located in an enclosed tank.

Flow switches must not be field repaired. Physical damage sustained by the product may render it unserviceable

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OPERATION:

The operating principle is based on a magnetic piston which responds only to the motion of fluids within the line, not to static or system pressures. In the presence of fluid flow, controlled movement of the piston actuates an external hermetically sealed reed switch. This switch can be used to actuate audible or visual alarms, as well as relays, or other controls.

INSTALLATION:

For proper operation fluid flow must be in the inlet port and out the outlet port. Switch may be universally mounted in any orientation.

CLEAN OUT:

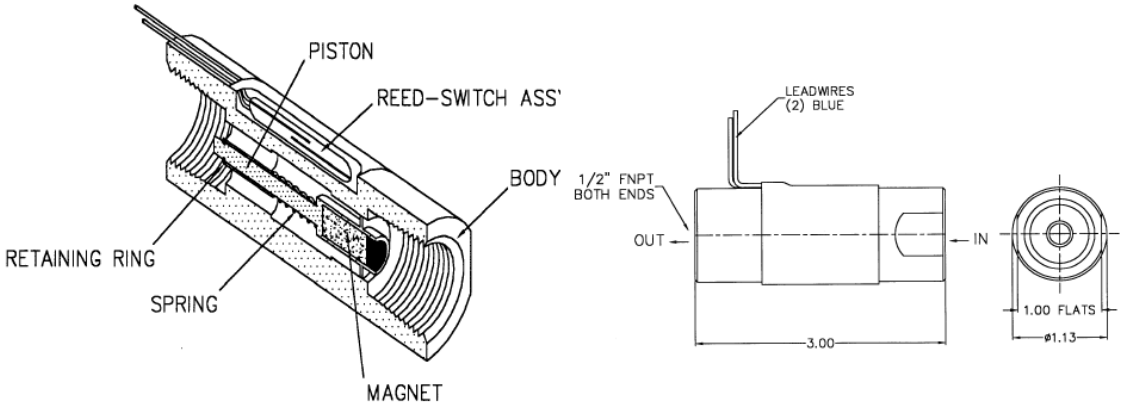
PROCEDURE TO CLEAN FLOW SWITCH

1. Remove the retaining ring using pliers.
2. Remove the piston and the spring by inverting.
3. Clean bore first with Trichlorothene and then with compressed air.
4. Replace the piston and the spring in the same orientation as before.
5. Replace retaining ring using pliers.

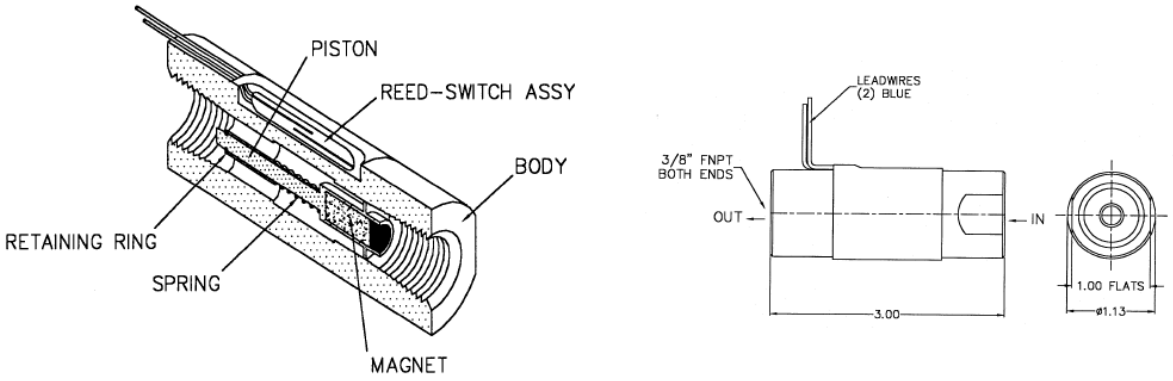
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Cut Away and Dimensional Drawings

*Illustrated is the M-64 Model with 1/2" FNPT.**



*Illustrated is the M-64 Model with 3/8" FNPT.**



**These dimensions apply to Brass and 316SS Units.*
IMPORTANT NOTE: OD for PVC and TEFLON Units is 1.5" OD

Electrical

SPST: DC Resistive: 10 Watts, AC Resistive: 10 VA.
Switching Current: 0.5A.
Carrying Current: 1.2A.

SPDT: DC Resistive: 3 Watts, AC Resistive: 3 VA.
Switching Current: 0.25A.
Carrying Current: 0.5A.

COLOR CODE:

ORANGE: NORMALLY OPEN
YELLOW: NORMALLY CLOSED
GREEN: COMMON

Standard Specifications

Material	Max. Pressure (psi)	Max. Temperature (C/°F)	Wetted Parts
Brass	1,500	149/300	Brass, 316SS, Epoxy
316SS	2,500	149/300	316SS, Epoxy
PVC	200	60/140	PVC, 316SS
PTFE	200	60/140	PTFE, PTFE Coated Stainless Spring

Ordering Information

Standard Part Numbering												
M	-	Model	-	Material	Port	Switch	-		Piston Type		-	
M	-	64	-	S	3	1	-	0	0	0	-	XXX
		64		B - Brass S - 316SS V - PVC T - PTFE	3 - 3/8" 4 - 1/2"	1 - SPST N.O. 2 - SPST N.C. 3 - SPDT		Future Option	0 - 316SS/Epoxy 1 - PTFE 2 - all 316SS	Future Option		Unique numbering from 001 to 999 to identify settings and other custom requirements.

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