

# M-64 Series

Fixed Set Point Flow Switches



Where Innovation Flows





Extreme accuracy is a highlight of Malema M-64 Fixed Set Point Flow Switches models. When triggered, the models will be within 10% of the desired set point, all while offering repeatability of 2%.

Available in 3/8", 1/2" and 3/4" sizes with stainless steel, brass, PTFE, and PVC material options, the M-64 Flow Switches offer a water flow range of 400 to 26,000 CCM and air flow range of 28,500 to 1,980,000 SCCM\*.

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.

Malema M-64 Fixed Set Point Flow Switch models offer a custom set point calibration option that can be programmed at our Malema facility before shipping. Standard pre-calibrated set point ranges on Malema Flow Switches are also available for immediate use and distribution. M-64 Flow Switches offer options for single-pole, single-throw (SPST) and single-pole, dual-throw (SPDT) configurations.

\* with applications featuring gases, ranges may vary.

## Applications

- Sample flow monitoring
- Alarm actuation
- Purge flows
- Loss of flow protection
- Semiconductor etch tools
- Laser cooling equipment

## Features

- In-line flow switch with low PD features
- Low pressure drop features
- Senses increasing or decreasing flow
- Very accurate custom flow settings
- Hermetically sealed
- Universal mounting



M-64 in PVC



M-64 in 316 Stainless Steel

## Material Specifications

Calibration Range *	Air - 28,500 to 1,980,000 SCCM Water - 400 to 26,000 CCM For lower and higher trip points contact factory. Maximum flows through switch
Set Point Accuracy	± 10% maximum
Repeatability	± 2%
Hysteresis	± 15% to 30%
Material Versions *	<ul style="list-style-type: none"> <li>• 316 Stainless Steel</li> <li>• Brass</li> <li>• PTFE (Only vertical mount is available)</li> <li>• PVC</li> </ul>
Port Sizes	3/8" FNPT 1/2" FNPT 3/4" FNPT

## Electrical

SPST	DC Resistive : 10 Watts.	Switching Current : 0.5A
	AC Resistive : 10 VA	Carrying Current : 1.2A
SPDT	DC Resistive : 3 Watts.	Switching Current : 0.25A
	AC Resistive : 3 VA	Carrying Current : 0.5A

## Standard Specifications

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

\*Piston with epoxy can only be subjected to maximum temperature of 90°C.

## Certifications



### UL and Canadian UL

UL and Canadian UL Recognized for ordinary locations.  
File E138467

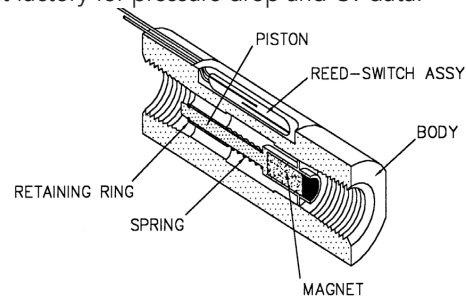


### CE Compliance

As per LVD Directive

## Cv at Typical Set Points

Contact factory for pressure drop and Cv data.



## Fixed Flow Setting Information

This model is a FIXED flow switch. The flow set point is fixed at the factory and is NOT field adjustable. Proper calibration of the set point requires the following information. When purchasing a flow switch, use the "Set Point Calibration" form, provide this information on the purchase order.

- Calibration set point
- Increasing or decreasing flow
- Fluid type (i.e. liquid or gas)
- Density or specific gravity
- Viscosity
- System pressure and temperature
- Flow direction (i.e. upward or downward)
- Mounting orientation (i.e. horizontal or vertical)

## Installation

Please use the product in the orientation it was calibrated (as indicated by reading the label). Universal units can be mounted horizontally or vertically. Please advise mounting orientation while ordering, so that the factory can calibrate in the required orientation as calibration does change slightly when changing orientation. Adequate filtration and sealing procedures should be used when mounting in flow lines.

## Ordering Information

M	-	-	-	-	-	-	-	-	-
M									
	64	B - Brass S - 316SS V - PVC T - PTFE*	3 - 3/8" 4 - 1/2" 6 - 3/4"	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.

\*only available in vertical mounting.



PSG  
Malema  
1060 S Rogers Circle  
Boca Raton, FL 33487  
USA  
P: +1 (800) 637-6418  
[psgdover.com/malema](http://psgdover.com/malema)



Where Innovation Flows

DS-M60-42023210

Authorized PSG® Partner:

Copyright 2025 PSG®, a Dover company