







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 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*.

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 pres-sures. 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 in PVC

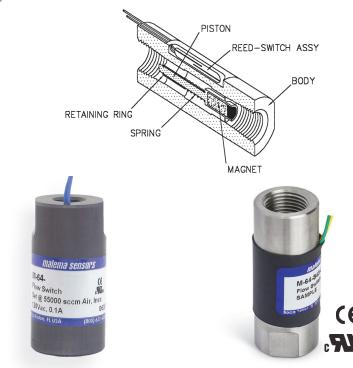
* with applications featuring gases, ranges may vary.

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 316 Stainless Steel

Specifications

Specifications				
Set Point Accu-	± 10% maximum			
Repeatability	2%			
Hysteresis	± 15-30%			
Body Material	316 Stainless SteelPVC316 Stainless Steel			
Piston Material				
Retaining Ring	Stainless Steel			
Spring	Stainless Steel			
Port Sizes	3/8" FNPT 1/2" FNPT 3/4" FNPT			
Reed Switch Data (Electrical Ratings) Reed Switch	3 Watts SPDT (Hermetically Sealed) UL Recognized. File E47258. Operating Temperature -40°C to 125°C			
Switching Voltage	170 VDC			
Breakdown Voltage	200 VDC			
DC Resistive	3 Watts			
AC Resistive	3VA			
Switching Current	0.25 A 0.5 A			

Electrical

SPDT	120 V ac 10 V dc 24 V dc	0.1 A general purpose 0.25 A resistive 0.1 A resistive
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Pressure and Temperature Rating

	Body Material	Max. Pressure (psi)	Max. Temperature °C/ °F	Wetted Parts
	316SS	2,500	149/300	316SS
	PVC	200	60/140	PVC, 316SS

Certifications

c**FL**®us

UL and Canadian UL

US UL and Canadian UL Recognized for ordinary locations.

File E138467

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CE ComplianceAs per LVD Directive

Cv at typical set points

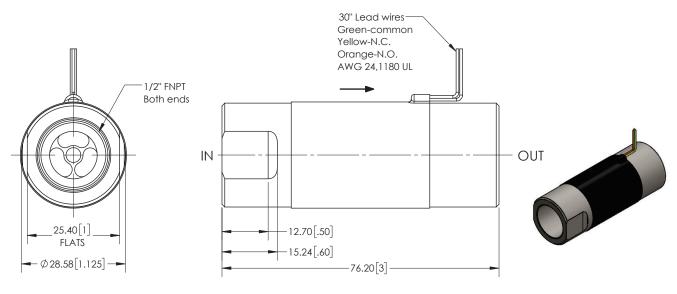
Contact factory for pressure drop and Cv data.

Installation

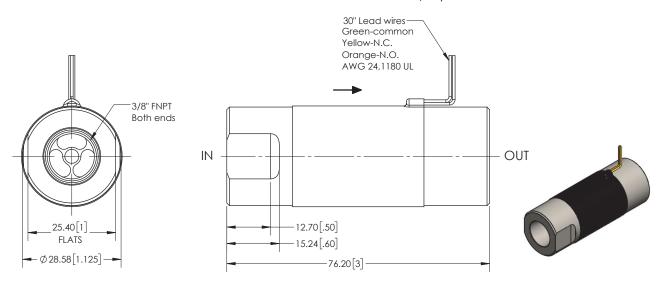
For proper operation fluid flow must follow the inlet and outlet port as shown on label. Switch may be universally mounted in any orientation. It is recommended to have adequate filtration in the system prior to operating the device. The device functioning may get adversely affected in presence of large particles interfering with the travel of the piston

Dimensional Drawings

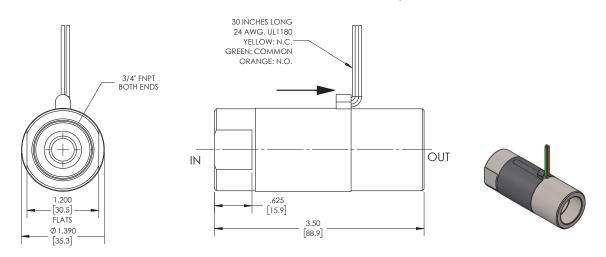
Illustrated is the M-64 316SS with 1/2" ports



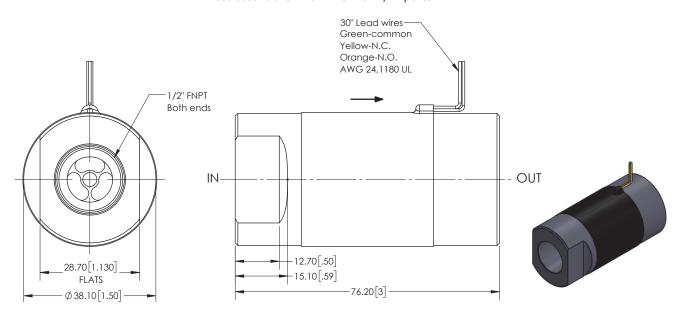
Illustrated is the M-64 316SS Model with 3/8" ports



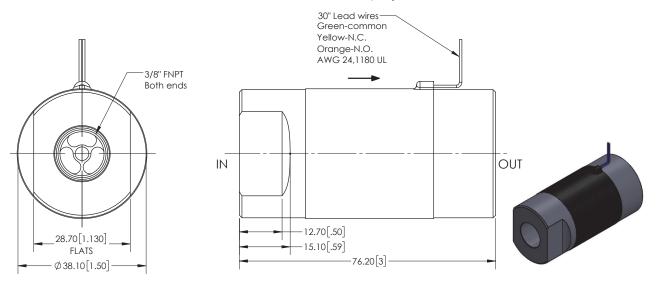
Illustrated is the M-64 316SS with 3/4" ports



Illustrated is the M-64 PVC with 1/2" ports



Illustrated is the M-64 PVC with 3/8" ports



Ordering Information

Standard Part Numbers						
Model	Port Size, Connection type	Set Point (Water)	SS 316 Body	PVC Body		
	3/8" FNPT	500 ml/min	M-64-S33-010-S001	M-64-V33-010-S001		
		750 ml/min	M-64-S33-010-S002	M-64-V33-010-S002		
		1000 ml/min	M-64-S33-010-S003	M-64-V33-010-S003		
		1500 ml/min	M-64-S33-010-S004	M-64-V33-010-S004		
		2500 ml/min	M-64-S33-010-S005	M-64-V33-010-S005		
		4000 ml/min	M-64-S33-010-S006	M-64-V33-010-S006		
		6000 ml/min	M-64-S33-010-S007	M-64-V33-010-S007		
		1000 ml/min	M-64-S43-010-S001	M-64-V43-010-S001		
		1500 ml/min	M-64-S43-010-S002	M-64-V43-010-S002		
		2500 ml/min	M-64-S43-010-S003	M-64-V43-010-S003		
M-64	M-64 1/2" FNPT	4000 ml/min	M-64-S43-010-S004	M-64-V43-010-S004		
		6000 ml/min	M-64-S43-010-S005	M-64-V43-010-S005		
		8000 ml/min	M-64-S43-010-S006	M-64-V43-010-S006		
		10000 ml/min	M-64-S43-010-S007	M-64-V43-010-S007		
	3/4" FNPT	4000 ml/min	M-64-S63-010-S001	M-64-V63-010-S001		
		6000 ml/min	M-64-S63-010-S002	M-64-V63-010-S002		
		8000 ml/min	M-64-S63-010-S003	M-64-V63-010-S003		
		10000 ml/min	M-64-S63-010-S004	M-64-V63-010-S004		
		15000 ml/min	M-64-S63-010-S005	M-64-V63-010-S005		
		20000 ml/min	M-64-S63-010-S006	M-64-V63-010-S006		
		26000 ml/min	M-64-S63-010-S007	M-64-V63-010-S007		

Note: • Flow switches are calibrated using water @ +70°F on increasing flow.

- Material compatibility choices are solely the responsibility of the end user.
- Specifications are subject to change without notice.
- For flow switches with custom set points for liquid as well as for gas flow applications, please contact the factory with the application information as needed in the Malema flow application questionnaire.



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Where Innovation Flows

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