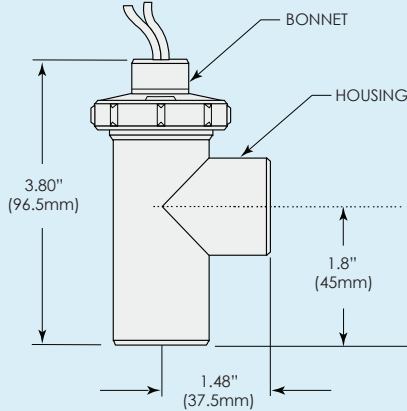
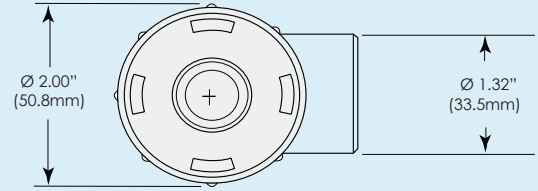


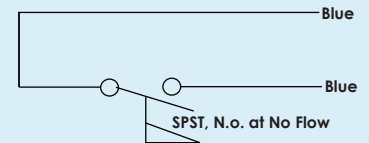
Ref. Dimensions...



Top View



Typical wiring Diagram...



Specifications

Materials	
Housing, Bonnet, Shuttle, Shuttle Cap	Polypropylene , Hydrolytically Stable Glass Reinforced
O-Ring	Viton®
Spring	316 Stainless Steel
Retaining Clip	316 Stainless Steel
Operating Pressure, Maximum	100 psig @ 70°F
	50 psig @ 180°F
	40 psig @ 210°F
Operating Temperature, Maximum	212°F
Set Point Accuracy	± 20%
Set Point Hysteresis	± 20% Maximum
Switch	SPST-N.O or N.C, SPDT 10 W, 0.5DC, 200V
Inlet/Outlet Ports	3/4" FNPT
Electric Termination	
Pilot	26" Long 22 AWG Teflon Insulated Wires

Standard Models . . .

Part Numbers	Switch Actuation Set point on Increasing Flow
001	0.25 gpm ± 20%
002	0.50 gpm ± 20%
003	1.00 gpm ± 20%
004	1.50 gpm ± 20%
005	2.0 gpm ± 20%
006	2.50 gpm ± 20%
007	5.00 gpm ± 20%

Note: Standard units are designed with springs for positive return of the shuttle at no-flow condition. This allows the flow switch to be mounted in any orientation, but actuation set points will vary from the stated values. Contact the factory for further information.

M-701 flow switches are for use with metal or plastic piping systems and connecting piping via the 3/4" NPT mating threads. The following guidelines are provided to assist with installation for a leak-free seal, without damage to the unit.

1. Apply pipe thread sealant to male pipe threads.
2. Thread the flow switch into the male pipe thread until hand-tight.
3. Tighten pipe 1 to 1-1/2 additional turns.
4. If improper seal results, continuing turning pipe into unit in 1/4 turn increments.

Do Not Exceed One Additional Turn

Recommended Pipe Sealants: a) Permatex® "No More Leaks" b) Teflon® Thread Tape

Maintenance ...

Disassembling for cleaning: It is not necessary to remove the unit from piping system.

Caution: Make sure the system is turned off and that no residual pressure remains in the piping.

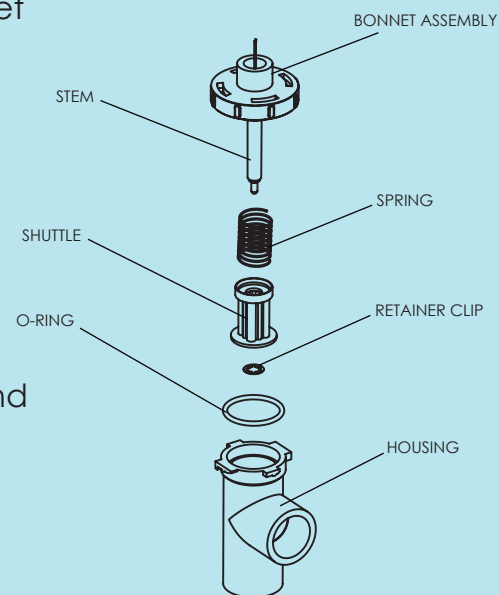
1. The bonnet assembly (see diagram below) is removed by firmly grasping the housing and turning the bonnet 45° counter-clockwise, as indicated on the top of the bonnet. This will unlock the mating tabs on the two parts.
2. The bonnet can now be pulled out of the housing. Be sure to pull holding on the bonnet, as damage can be done if the lead wires are pulled.

Cleaning: Clean shuttle, stem, spring, retaining clip and inside of housing by lightly scraping and/or wiping. Check O-ring, bonnet assembly, shuttle, and spring for damage. Consult Factory for replacement parts, if necessary.

To Reassemble Unit ...

1. Be sure spring is properly set on shuttle cap.
2. Reposition O-ring in Bonnet assembly after applying silicon high vacuum grease.
3. Insert bonnet assembly into housing, allowing tabs on bonnet to clear mating lugs on housing. Be sure bonnet stem end aligns with centering feature in housing.
4. Bonnet assembly can be locked by firmly grasping housing and turning bonnet 45° clockwise, as indicated on top of bonnet. This will engage mating tabs on the two parts.

(See exploded view at right)



Important Points!

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/vapour sealing if located in an enclosed tank.

Flow switches must not be field repaired.

Physical damage sustained by the product may render it unserviceable.