



Water Flow Switch

Series : SI - 1015

GENERAL :

S.I. (SI-1015) Series Water Flow Switches are manufactured in a wide variety of required specifications, Temperature / Pressure Rating & different design features to meet specific requirement in liquid flow lines carrying water or any fluid not harmful to Brass, Stainless Steel and not classified as a hazardous fluid.

This Flow Switch can serve as a way to Start or Stop electrically operated equipment when a 'flow' or 'no flow' condition occurs in a variety of applications

CONSTRUCTIONAL FEATURES :

Mode; (SI-1015) The Body of Flow Switch is of Pressure diecasted Brass with plastic top enclosure, with a single SPDT switch. Wetted parts are of Brass & Stainless Steel. Individual paddles are adaptable for pipe 1" to 8", extended paddle for larger pipe is also included. Standard size is 1" NPT threaded connection.



PI-1

INSTALLATION :

S.I. Water Flow Switch may be mounted in a Horizontal pipe line or a Vertical pipe line with upward liquid flow. It is not recommended for installations where flow is downward.

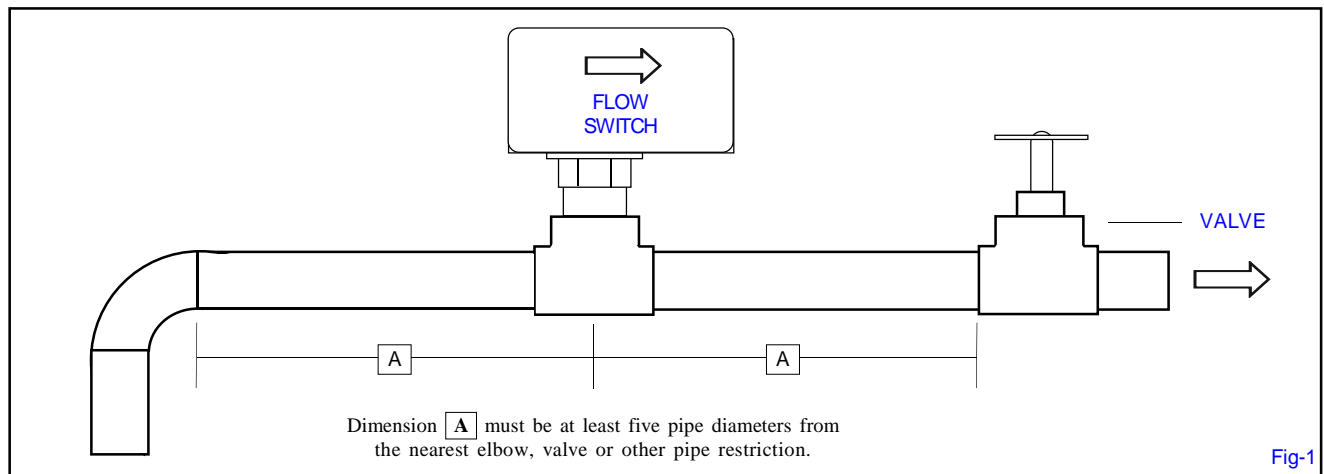


Fig-1

Mount the Flow Switch in a section of pipe where there is a straight run of at least 5 pipe diameter on each side of the Flow Switch. Do not locate adjacent to valves, elbows or orifices. The Flow Switch should be mounted so the terminals or wire leads are easily accessible for wiring.

S.I. Water Flow Switches with flexible paddles are furnished with 5 paddles. Suitable for pipe sizes 1" upto 8" use the paddle provided. The paddles must not touch the inside of the pipe or bind in any way. Paddles smaller than the actual pipe size should be used for added support & higher sensitivity. The paddles must be properly attached and the screw that holds the paddle must be securely tightened.

MOUNTING :

IMPORTANT : To avoid damaging the switch, do not tighten the switch to the Tee by grasping the switch enclosure. Use only the wrench for tightening.

- Install the Flow Switch so that the cover and the interior are accessible.
- Mount the Flow Switch so that the flow of fluid is in the direction of the arrow on the Flow Switch casing.
- Use a pipe union on each side of the Flow Switch to allow easy removal or replacement.
- Mount the Flow Switch so that the pipe does not extend too far into the Flow Switch casing.
- Use only pipe thread sealer on male threads.

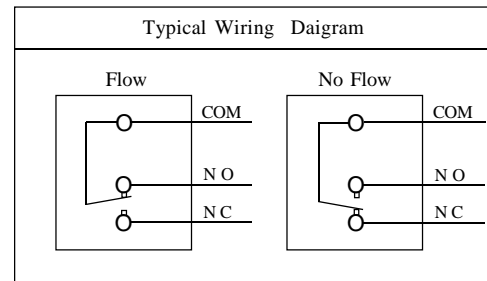
SPECIFICATIONS :

Flow Switch Type	:	Flapper (Paddle) Type. (SI-1015 Series)
Maximum Static Pressure	:	20 kg/cm ²
Temperature Range	:	0°C upto +50 °C
Maximum Fluid Temperature Range	:	-10 °C upto +100 °C
Electrical Micro Switch	:	SPDT Rating : 220 VAC, 15 Amp.
Electrical Connections	:	Screw Terminals.
Top Enclosure	:	Plastic Cover with 1/2 Conduit Opening.

ADJUSTMENT :

- To Adjust Settings remove top enclosure.
- For Higher Flow Rate, Turn Range Adjusting Screw Clock-wise.
- For Lower Flow Rate, Turn Range Adjusting Screw Anti Clock-wise.
- Ensure top enclosure is replaced after Job completion.

Typical Flow Rates - GPM Required to Activate Flow Switch											
Pipe Size (inches)		1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8
Minimum Adjustment	Flow Increase	4.5	4.5	6	7.5	13.5	18	35	50	70	210
	Flow Decrease	3.5	3.5	5	5.5	9.5	13	25	40	60	190
Maximum Adjustment	Flow Increase	9.5	10	13.5	20	29	50	70	120	180	410
	Flow Decrease	7	8.5	10.5	18.5	26	45	65	105	160	380



PADDLE ARRANGEMENT :

Typical paddle arrangement for 6" to 8" pipe size, using smaller flexible paddles for added support and higher sensitivity.

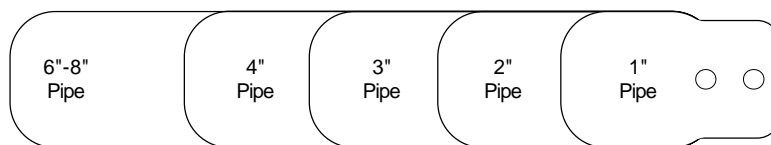


Fig-2



SANT INDUSTRIAL CONTROLS PVT. LIMITED.

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