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Thermo-Flo<sup>™</sup> AX1X with Compact Flow Controller



**Application** 



# Thermo-Flo™ Flow Switch Fitting



# **Application**

A common problem with metering pumps in flow applications is the characteristic of the output flow. The pulsating flow makes it difficult for flow switches to get an accurate and consistent flow rate. Often flow switches will not work because they are not able to see a reliable flow output. The Flowline Pulse Point fitting is designed to stabilize the pulsing flow for the Thermo-Flo flow switch. The cylindrical chamber creates a mini-vortex that translates to a relatively constant flow. The Thermo-Flo flow switch will be able to read the flow and provide an accurate and low-cost flow switch. The Flowline Pulse Point fitting is ideal for use in metering pump applications.

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### **Specifications**

Set point range:	AT1X: 0.04 to 3 fps
	(0.012 to 0.91 mps)
	AGTA. 1 (0.90 ) ps
Factory act point:	$(0.3 \ 10 \ 27 \ 10 \ ps)$
Factory set point.	AG1_: 10 fps (3mps)
Repeatability:	±0.5% of set point
	@ fixed temperature
Response time:	1-10 seconds
Set point adjust .:	Potentiometer
Viscosity range:	AT1_: 1-200 centipoise
	AG1_: N/A
LED indication:	Flow status
Supply voltage:	12-36 VDC
Consumption:	70 mA maximum
Contact type:	(1) SPST relay
Contact rating:	60 VA, 1A maximum
Contact output:	Selectable NO / NC
Process temp .:	F: 32° to 140°
	C: 0° to 60°
Ambient temp.:	F: -40° to 140°
	C: -40° to 60°
Pressure:	150 psi (10 bar) @ 25°
	C, derated @ 1.667
	psi (0.113 bar) per °C
	above 25° C
Enclosure rating:	NEMA 4X (IP65)
Enclosure mat .:	PP, UL94VO
Terminal strip:	6-pole, socket
Conduit entrance:	1/2" NPT
Wetted material:	-163X: PP-Ryton®
	-363X: PVDF
Process mount:	3/4" NPT (3/4" G)
Mount gasket:	Viton® (G version only)
Classification:	General purpose
Compliance:	CE

### Dimensions



## Mounting

AX1X Special Mounting Instructions

The AT1\_ series flow switch when installed must always be in contact with the liquid being measured. The AG1\_ series flow switch can only be used in gas apllications. Both flow switches feature a 3/4" NPT threads which will allow it to be used with various types of fittings. Be sure to check the insertion depth of the liquid flow switch in the fitting after it is installed. See the diagram on the top righ for the recommended insertion depth.

When using any type of fitting, the orientation as well as the insertion depth of the flow switch in the pipe is critical. Recommended orientation and depth is represented by the following diagram. For more information reference the AX1X-X63X manual at www.flowline.com/technical\_lit.php

#### **Liquid Sensor Insertion**



Liquid Sensor Orientation



### Ordering



#### Notes

) Order the short sensor for use with pipe sizes from 3/4"-1 1/2" (D25-D50), and the long sensor for 2" and higher (D63 up).

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