

Magnetic Float Type Level Switch (Horizontal Float Type)

Model: SFM/SHM



SFM Series (Reed Switch)

Mini Magnetic Float Type Level Switch



Hydraulic Equipment. Lubricating Oils and Coolant Tanks

Introduction

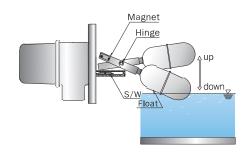
SFM series float type liquid level switch made by Seojin Instech is intended for mounting on the sidewall of a tank. This product is sturdy, switching action is definite, and it is easy to be installed and maintained.

Features

- Small size
- Simple installation
- Wide adaptability
- Can be activated at the boundary of two liquids (SFM-16)

Principle

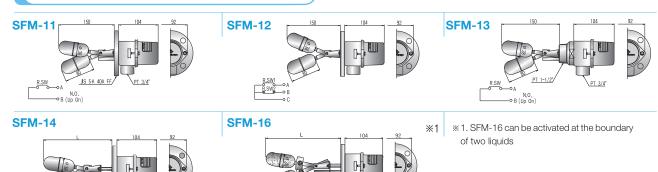
When the float is tilted upward by the rising liquid level, the magnet attached to the end of the body actuates the reed switch.



Specifications

	Гуре	SFM-11	SFM-12	SFM-13	SFM-14	SFM-16	
Switch Rating		50VA, 0.5A 300VAC, Max. (Reed Switch Type)					
Operating Temperature			10 ~ +80℃				
Operating Pressure		5kgf/cm ²		5kgf/cm ²	5kgf/cm ²		
Switch		Reed Switch					
Output		1SPST	1SPST	1SPST			
S.G		0.7					
Actuation Angle		9 ~ +23°	±23°		9° ~ +23°		
Mounting Standard		JIS 5K 40A FF		PT 1½″	JIS 5K 40A FF		
Materia	Sensing part	304SS /		/ 316SS		304SS / NBR Float	
	Housing part	ADC (IP65)					

Dimensions



Ordering Informations

■ Mini Magnetic Float Type Level Switch (Reed Switch Type)

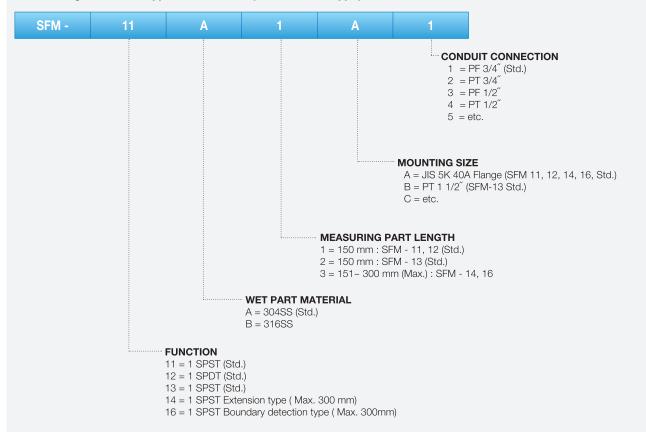
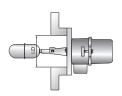


Table for Chamber Selection

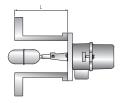
Float opening



Float (Min. I.D)

SFM - 11, 12, 13, 16 : 41mm SFM - 14 : 44mm

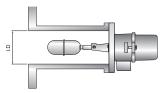
Nozzle Length



From float to tank (Max. Distance : L)
SFM - 11, 12, 13, 16 : 160 mm
SFM - 14 : 60 mm + "A"

"A" Value means a distance of extended part

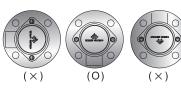
Pipe Opening



Pipe(Min. I.D)

SFM - 11, 13, 14 : 120mm SFM - 12, 16 : 130mm

Orientation



Opening for electrical conduit should face down

SHM-100 (Micro Switch)

Horizontal Magnetic Float Type Level Switch



Hydraulic Equipment.

Lubricating Oils and Coolant Tanks.

Introduction

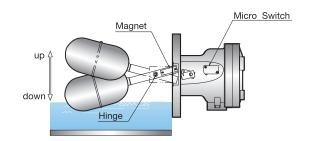
SHM series float type liquid level switch made by Seojin Instech is intended for mounting on the sidewall of a tank. This product is sturdy, switching action is definite, and it is easy to be installed and maintained.

Principle

When the float is tilted upward by the rising liquid level, the magnet attached to the end of the body actuates the micro-switch.

Features

- Various models to choose
- Excellent adaptability
- Selectable float chamber
- Simple installation
- Explosion proof available (Ex d IIC T6, IP65)

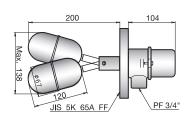


Specifications

Туре		SHM - 100	SHM - 100E	SHM - 100T	
Contact Rating		250V AC, 10A			
Switch		Micro Switch			
Process Temperature	Sensing Part	-25 ~ +120℃	-20 ~ 60°C	-25 ~ +230°C	
	Housing Part	-25 ~ +120°C	-20 ~ 60°C	-25 ~ +120°C	
Operating Pressure		10kgf/cm² (Max.)			
Output		1SPDT			
Specific Gravity		0.7(Min.)			
Actuation Angle		±15°			
Mounting Standard		JIS 5K 65A FF			
Material	Sensing Part	304SS / 316SS			
	Housing Part	ADC	Cast Aluminum		
Enclosure Class		Weather proof	Explosion proof (Ex d IIC T6 / IP65)	Weather proof	

Dimensions

SHM-100 (Std.)



SHM-100E (Std.)

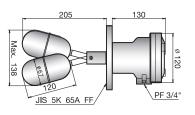
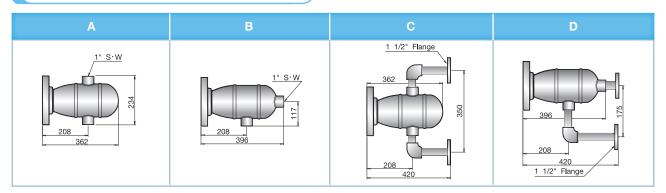
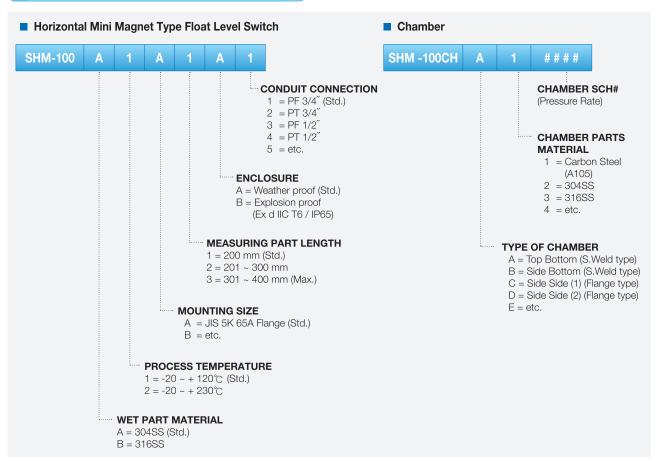


Table for Chamber Selection



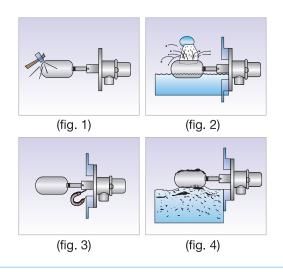
Ordering Informations



■When placing an order, selected ordering number should be indicated on the purchase order sheet.

Precaution

- Avoid dropping or shocking the Level Switches (Fig.1)
- Do not install the switches near a drain outlet or a feedwater inlet to avoid malfunction due to chattering (Fig. 2)
- Installation near a strong magnetic field should be avoided to prevent malfunction (Fig. 3)
- This type of Level Switch should not be used for liquids containing iron particles or other strongly magnetic material.
 The Switches must be cleaned frequently if the liquid has high viscosity or contains floating material (Fig. 4)



SHM-2000

Vertical Magnetic Float Type Level Switch



Features

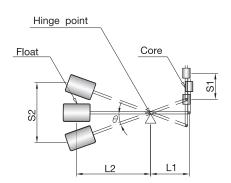
- Liquid level control for high temperature and/or high pressure systems.(350°C 100 bar)
- For control of levels in turbine service tanks of electric power plants.
- For control of boiler feedwater and other pressure vessels.
- For control of levels in oil tanks and petrochemical processing plants.
- A variety of mounting chambers are available.
- Simple installation.
- Selectable of installation chambers.

Introduction

The float and body of this model rotates around a single point to induce a vertical linear displacement to a machanism to actuate a heatproof micro-switch.

Principle

The range of linear core movement is determined by selecting the rotating angle of the float and lengths, L1 and L2, to actuate the micro-switch, which controls the power to pump or drain equipment.

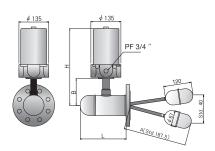


Specifications

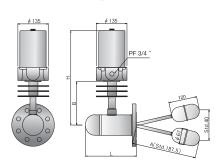
SHM-2000 Type		Std.	Explosion Proof		
Contact Capacity		125V AC, 15A / 250V AC, 5A			
Switch		Heat-proof Micro Switch			
Process Temperature	Sensing Part	-25 ~ +350°C (Max.)			
	Housing Part	-25 ~ 120℃	-20 ~ 60℃		
Operating Pressure		100kgf/cm² (Max.)			
Output		1SPDT, 1DPDT			
Specific Gravity		0.6(Min.)			
Actuation Angle		±6°			
Mounting Standard		JIS 10K 80A FF (Std.), Option for other			
	Sensing Part	304SS / 316SS			
Material	Housing Part	304SS / 316SS / Carbon Steel			
	Housing Part	ADC, Cast Aluminum			
Enclosure Class		Weather proof	Explosion proof (Ex d IIC T6, IP65)		

A1A1A1

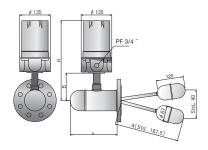
Dimensions



A3A1A1



A1A1B1



A3A1B1

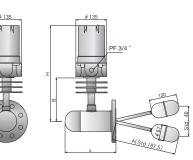
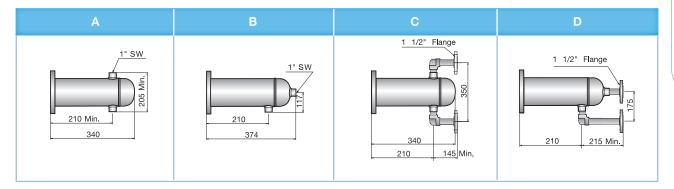
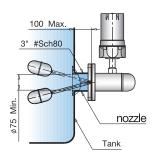


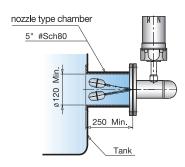
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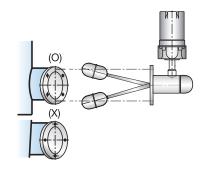
Installation Requirement



When using a nozzle

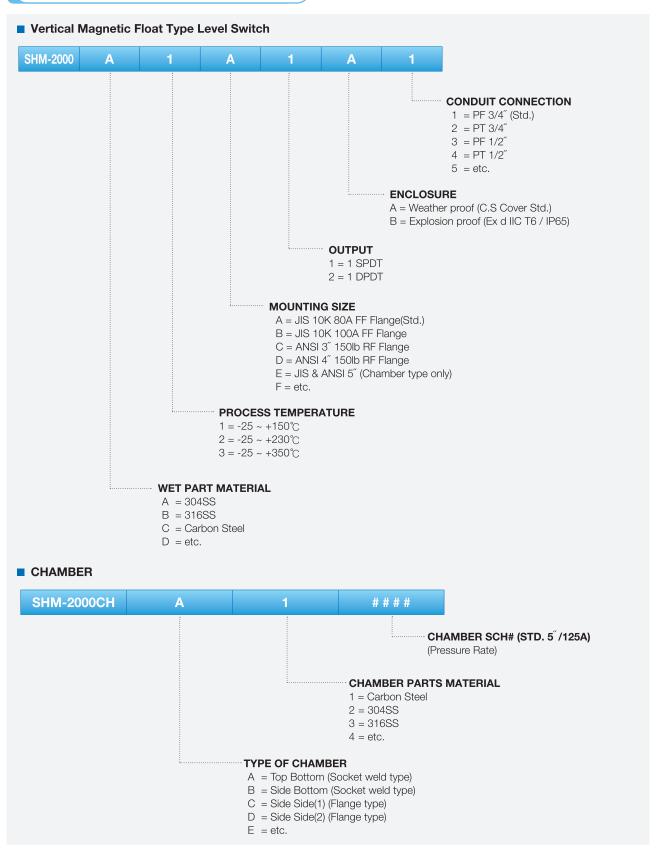


When using a chamber



The centerline of bolt holes should line up with the vertical centerline of the flange.

Ordering Informations



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