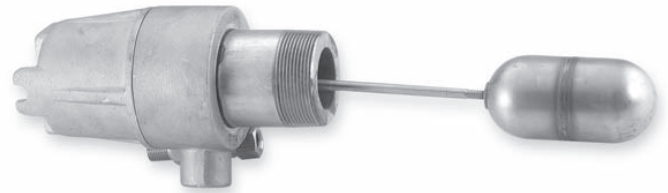


Wellmark Series 683

Floatswitch for atmospheric vessels up to 2 psig

Application

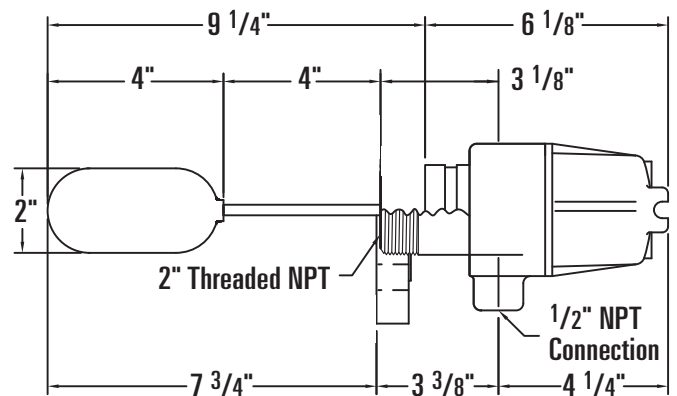
The Model 683 Floatswitch is a float type control which completes an electrical circuit to a pump, valve, alarm or other device, when the liquid level in the vessel rises (or lowers) to a predetermined point.



Features

- **Corrosion Proof:** Float and Arm are 304 S.S., Cad Plated Steel Vessel Connection (Other materials available for more corrosive liquids).
- **No Wearing Parts:** Due to the pivoting action of the float arm on the diaphragm, sticking does not occur in thick or corrosive liquids.
- **Switch Outputs:** The 683 can be obtained with micro switch output ie. SPDT, DPDT, etc.
- **Adjustments:** Nothing to adjust or get out of calibration on the mercury switches. Micro switches can be adjusted from the outside when the floatswitch is installed on the vessel.
- **Simple Installation:** On an INTERNAL MOUNT, the float passes through a 2" nipple.
- **Longer Life:** Since there are no wearing parts, the replacement of stuffing boxes, etc. is eliminated.

Internal Type



Operation

The float arm passes through a nylon reinforced diaphragm with a special nut on each side of the diaphragm; the switches are attached to the float arm by means of stainless steel supports. The diaphragm acts as a pivot point for the float arm, and as a seal between the vessel and the explosion proof switch housing. The maximum travel of the float between the switch “make” and “break” is 1” for mercury switches and 1/4” for micro switches.

Switch Ratings

683SF.....	SPDT Micro Switch
	15 A @ 125, 250 or 480 VAC
	1/8 HP-125 VAC, 1/4 HP-250 VAC
	1/2 A @ 125 VDC, 1/4 A @ 250 VDC
683SG.....	DPDT Micro Switch
	10 A @ 125 or 250 VAC
	0.3 A @ 125 VDC; 0.15 A @ 250 VDC

Specifications

Switch Housing	Cast Aluminum
Operating Pressure	Atmospheric to 2 psig
Operating Temperature	-20°F to +225°F
Electrical Connection	1/2" Female Pipe Thread

Model code

Determining the Model Number

Example given: Standard Model 683-F1A1-1N* Floatswitch for Atmospheric (Vented) Vessels with, SPDT Micro Switch Output, 2" NPT (Cad Plated Steel) Vessel Connection, 304 S.S. Float and Float Arm, Buna-N Diaphragm, for Internal Vessel Mounting.

6 8 3 S - F 1 A 1 1 N *

A
B
C
D
E
F
G

A

TYPE OF SWITCH	
Code	Option
F	SPDT Micro Switch
G	DPDT Micro Switch

E

FLOAT CONTROL HOUSING	
Code	Option
I	Internal (None)

B

CONNECTION	
Code	Option
1	2" NPT, Cad Plated Steel

F

TYPE OF COATING	
Code	Option
N	None Required
E	Epoxy

C

FLOAT & ARM MATERIAL	
Code	Option
A	304 S.S.
B	316 S.S.

G

OPTIONS & ADDITIONS	
Code	Option
h	Float Arm, (Non-Std.) 316 S.S. ⁽¹⁾
s	Tag, Stainless Steel

Note: 304SS option "A" not available with extension arms. If extension arm is needed please select 316SS option "B".

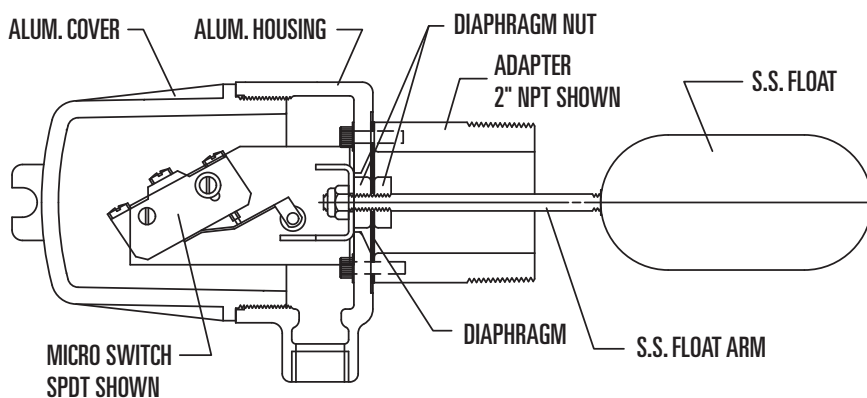
(1) Extension Arms available only in 316SS Available sizes = 5", 6", 12", 18", 20".

D

DIAPHRAGMS MATERIAL	
Code	Option
1	Buna-N
3	Viton®

*For variations, change code to match requirements.

Typical Assembly



683 with Micro Switch

Why you can depend on genuine Norriseal-Wellmark products

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- In-depth applications experience
- Award-winning innovation and ongoing product development
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- Over five decades of industry service
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Norriseal-Wellmark | 11122 W Little York Rd | Houston, TX 77041 | T: +1 877-667-6418

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