### **Selection Guide & How They Work**

### **Level Switches**

### MADE IN THE U.S.A.



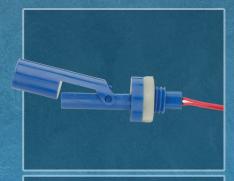
- Single Point Level Switches
- Multi Point Level Switches
- Clean In Place Level Switches
- Sight Glass Window Indicator

















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### **Liquid Level Switch Comparison Testing Program**

#### Thomas Products is Different...

#### "An Engineer..... Hungers for more knowledge"

Unique to Thomas Products is our in-house Testing Facility. The program identifies weaknesses or shows you just what your liquid level switch or flow switch is capable of. Designed around military standards, all the test results are easy to understand.

We build what we sell. We know it is not possible to guarantee the quality of a sensor when we don't have control over how it is manufactured. Our customers are comfortable specifying Thomas Products because we do not sell third-party sensors, we make what we sell, our numerous patents are a reflection of our continued innovations.

The same quality commitment goes into every sensor, whether it's a Liquid Level Switch, Flow Switch, Pump Control, Indicator etc. or a new patented Thomas Products invention or a production line sensor. Comparison testing is the perfect way to side by side compare against a Thomas Product sensor. Our extensive in house manufacturing and testing facility includes Injection Molding, CNC machining, Welding, Destructive and non Destructive testing, Hammer blow shock test and Variable amplitude vibration testing, Time Temperature, Accelerated life test, and so much more. We welcome inquiries to prove our sensors by comparison testing data compared to any competitors similar product.

> Thomas Products reads as an open book, we have always offered help without obligation since 1974.







Please contact the factory sales department





**4** 1-800-666-9101

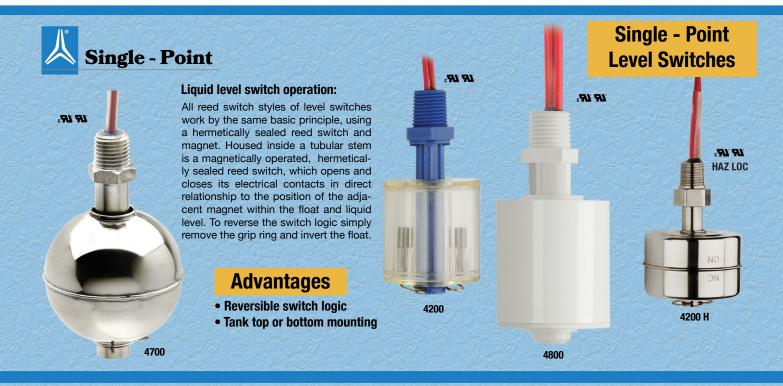


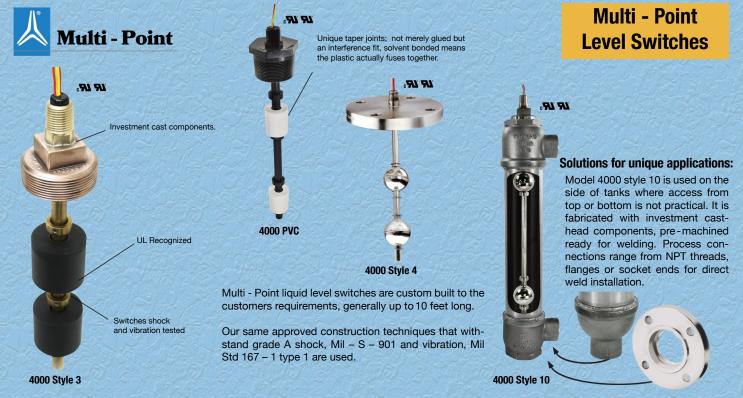






### Level Switches



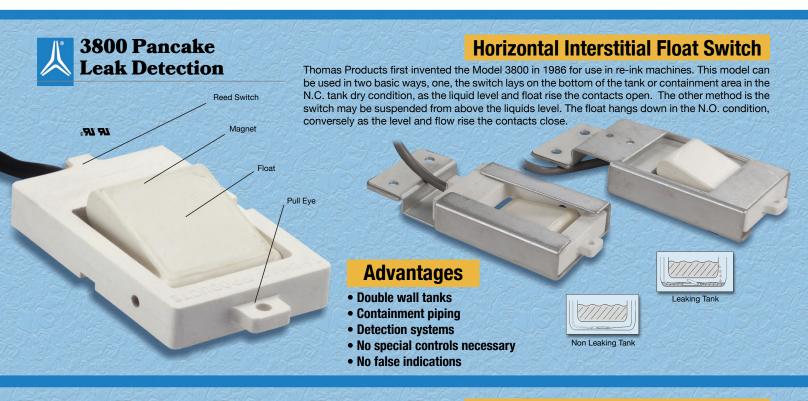














Dry Eye™

# Dry indicator is not in contact with liquids. Pat. No. 5,425,271

3/4 NPT

Wet float stavs in liquid.

Safe ambient pressure side. No sight windows to blowout.

### **Sight Glass Level Indicator**

The housing has two separate chambers. In the front chamber behind the transparent lens is a two color roller, half red, half green and is equipped with a magnet. In the rear chamber is a magnet equipped float free to swing with the action of the liquid's level. The poles of the two magnets are opposite creating a permanent interlock. As the liquid level falls, the float and magnet swing to rotate the roller exposing the red side indicating a low liquid level. Accordingly, as the level rises, the green side indicating a satisfactory liquid level condition appears.

### **Advantages**

- Non-Electric
- Replaces unreadable sight windows
- Made in brass or 316 SST
- Journeyman pipe fitter not required
- Installs at points of indication
- Safe for hazardous locations





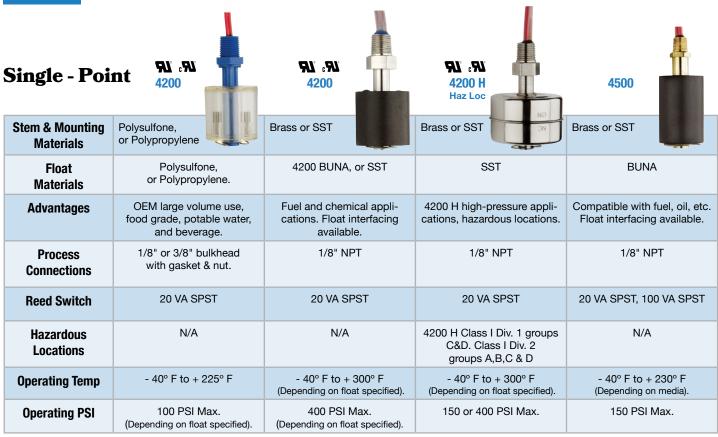








### Level Switches



Single - Poi	nt 4600	4700 4700 H	4800
Stem & Mounting Materials	Brass or SST	Brass or SST	PVC
Float Materials	BUNA	SST	PVC
Advantages	Compatible with fuel, oil, etc. Float interfacing available.	4700 H high-pressure applications, hazardous locations.	Economical, wide chemical applications, plating solutions, etc.
Process Connections	1/4" NPT	1/4" NPT	1/4" NPT
Reed Switch	20 VA SPST, 100 VA SPST	20 VA SPST, 100 VA SPST	20 VA SPST
Hazardous Locations	N/A	4700 H Class I Div. 1 groups C&D Class I Div. 2 groups A,B,C & D	N/A
Operating Temp	- 40° F to + 230° F (Depending on application).	- 40° F to + 300° F	- 40° F to + 140° F
Operating PSI	150 PSI Max.	750 PSI Max.	100 PSI Max.







### **Level Switches**

#### Multi - Point

**R: 1R** 4000 Styles 1-/





	Styles 1-4	Adjustable	Styles 5-9
Stem & Mounting Materials	Materials to customer specs. Brass, SST, PVC	Materials to customer specs. Brass, SST, PVC	Materials to customer specs. Brass, SST, PVC
Float Materials	BUNA or 316 SST	BUNA or 316 SST	BUNA, 316 SST, Polysulfone & Polypropylene.
Advantages	Installs from inside or outside of tanks. Top or bottom, variety of mountings.	Adjustable position along length of stem.	Installs from inside or outside of tanks. Top or bottom, variety of mountings.
Process Connections	1/2", 1 1/4", 2" NPT & 3" 150# ANSI flange. Any length available.	Any model 4000 metal construction.	1/8", 3/4", 1" NPT, 3-5/8" diameter flange. Any length available.
Stem Diameter	1/2"	5/16" & 1/2"	5/16"
Reed Switch	20 VA SPST, 20-100 VA SPST or 20 VA SPDT	20 VA SPST, 20-100 VA SPST or 20 VA SPDT	20 VA SPST, 20-100 VA SPST or 20 VA SPDT
Switch Points	1 to 6	1 to 6	1 to 5
Operating Temp	- 40° F to + 300° F (Depending on style).	- 40° F to + 300° F (Depending on style).	- 40° F to + 300° F (Depending on style).
Operating PSI	750 PSIG Max. (Depending on style).	750 PSIG Max. (Depending on style).	750 PSIG Max. (Depending on style).

Multi - Point

IR: IR 4000 Styles 11 IR. IR 4000 Style 10

Any model 4000

metal construction.

**FL** (R) **5000 Styles A-D** 

**Stem & Mounting** Materials to customer specs. Brass, Carbon Steel, SST, PVC **Materials** BUNA, 316 SST & PVC Float **Materials** Side of tank mounting. **Advantages** 2", 3", or 4" **Process** 150# ANSI flange. **Connections** 

Materials to customer specs. Brass, SST, PVC

Materials to customer specs. Polysulfone, Ryton

BUNA, 316 SST & PVC

Polysulfone, Polypropylene, **BUNA, & 316 SST** 

External tank mounting. Verity of connections and styles.

bottom, variety of mountings. 1/8", 1" NPT 3/8" - 16 bulkhead 2" diameter flange.

FDA approved material, installs top or

1/2" 1/2" Stem Diameter **Reed Switch** 20 VA SPST, 20-100 VA SPST 20 VA SPST, 20-100 VA SPST or 20 VA SPDT or 20 VA SPDT

5/16" - fluted

20 VA SPST

1 to 6 1 to 6 1 to 4 **Switch Points** 

- 40° F to + 300° F (Depending on style). - 40° F to + 300° F (Depending on style). - 40° F to + 225° F **Operating Temp** 

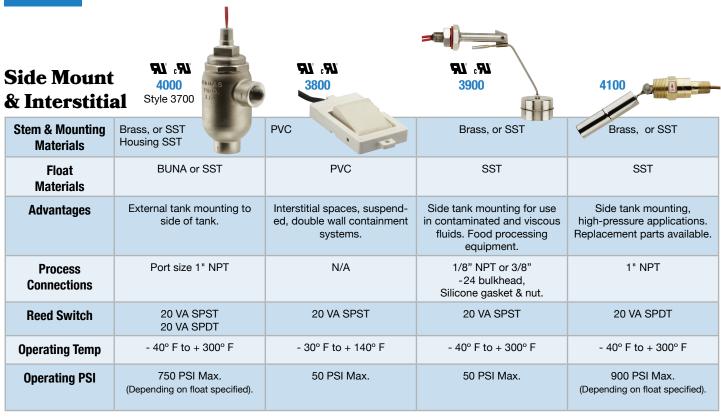
750 PSIG Max. (Depending on style). 750 PSIG Max. (Depending on style). 500 PSIG Max. (Depending on style). **Operating PSI** 











Side Mount & Indicator	4400	<b>91</b> ° ( <b></b>	5100 Sight Glass Window Indicator Pat. No. 5,425,271
Stem & Mounting Materials	Polysulfone, Polypropylene or optional Ryton.	Brass or SST	Brass or SST
Float Materials	Polysulfone, Polypropylene or optional Ryton.	BUNA, SST, Polysulfone, or Polypropylene.	SST
Advantages	Side tank mounting, economical, FDA approved material.	Side tank mounting, high-pressure applications, variable length stems.	Side tank mounting, use in hazardous locations. Non-electrical 2 color indicator flag (red & green).
Process Connections	1/2" NPT, 1/2"-13 or 5/8"-11 bulkhead & nut.	1/8" NPT or 3/8"-24 bulkhead, Silicone gasket & nut.	3/4" NPT
Reed Switch	20 VA SPST	20 VA SPST	N/A
Operating Temp	- 40° F to + 225° F	- 40° F to + 300° F (Depending on float specified).	- 40° F to + 225° F
Operating PSI	150 PSI Max. (Depending on float specified).	400 PSI Max. (Depending on float specified).	400 PSI Max.









**FLOW & LEVEL SWITCHES** 

Visit our website for detailed information on our product line of switches, controls, indicators & accessories.

## Since 1974





#### Flow Switches

How They Work And Selection Guide. Piston & Shuttle Flow Switches



### **Level Switches**

How They Work And Selection Guide. Single - Point Level Switches



#### **Multi-Point Level Switches**

How They Work And Selection Guide.

Custom Made Level Switches



### **Pump Controls**

How they work and selection guide.
Chemical Feed Pump Controls







### Flow & Level Indicators

How they work and selection guide. Sight Glass Window Indicator









### Accessories

NEMA Type 2 Plastic JIC Enclosures, Latching Relays, Adapters



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