

Level and Flow Switch

selection guide



- Ideas
- Solutions
- Technical Support



THOMAS PRODUCTS LTD.
FLOW & LEVEL SENSORS







www.ThomasProd.com

Level Switch

selection guide

Easy Ordering
Customizing available on all models.

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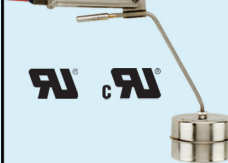

5000 Styles A-D	4000 Adjustable	4000 Styles 5-9	4000 Style 11	4000 Style 10	4000 Styles 1-4	Click/ Tap images for specs
 Custom Built to Customer Specs.	 Custom Built to Customer Specs.	 Custom Built to Customer Specs.	 Custom Built to Customer Specs.	 Custom Built to Customer Specs.	 Custom Built to Customer Specs.	
Materials per customer specs. Polysulfone, Ryton, Nylon, etc.	Materials per customer specs. Brass, Bronze, Stainless Steel, PVC, etc.	Materials per customer specs. Brass, Bronze, Stainless Steel, PVC, etc.	Materials per customer specs. Brass, Bronze, Stainless Steel, PVC, etc.	Materials per customer specs. Brass, Bronze, Stainless Steel, PVC, etc.	Materials per customer specs. Brass, Bronze, Stainless Steel, PVC, etc.	Stem & Mounting Material
Same as above, plus Polypropylene, and BUNA.	Same as above, plus Polysulfone, BUNA and Polypropylene.	Same as above, plus Polysulfone, BUNA and Polypropylene.	Same as above, plus BUNA and PVC.	Same as above, plus Polysulfone, BUNA and Polypropylene.	Same as above, plus Polysulfone, BUNA and Polypropylene.	Float Material
FDA approved material installs top or bottom, variety of mountings.	Adjustable stem. Customer can raise entire stem to position.	Installs from inside or outside of tanks. Top or bottom, variety of mountings.	Side of tank mounting.	External tank mounting to side of tank.	Installs from inside or outside of tanks. Top or bottom, variety of mountings.	Advantages
1/8", 1" NPT, 3/8" - 16 Bulkhead 2" diameter flange.	Any Model 4000 metal construction.	1/8", 3/4", 1" NPT, 3 - 5/8" diameter flange. Any length available.	2", 3" or 4" 150# ANSI flange.	Port Size 1" NPT	1/2", 1-1/4", 2" NPT and 3" 150# ANSI flange. Any length available.	Mounting Sizes
5/16" Diameter, fluted.	5/16" and 1/2" Diameter.	5/16" Diameter.	1/2" Diameter.	1/2" Diameter.	1/2" Diameter.	Stem Diameter
20 VA SPST	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	20 VA SPST, 20 -100 VA SPST or 20 VA SPDT	20 VA SPST, 20 -100 VA SPST or 20 VA SPDT	Reed Switch
1 to 4	1 to 6	1 to 5	1 to 6	1 to 6	1 to 6	Switch Points
-40 °F to +225 °F	-40 °F to +300 °F (Depending on style specified.)	-40 °F to +300 °F (Depending on style specified.)	-40 °F to +300 °F (Depending on style specified.)	-40 °F to +300 °F (Depending on style specified.)	-40 °F to +300 °F (Depending on style specified.)	Operating Temperatures
750 PSIG (Depending on style specified.)	750 PSIG (Depending on style specified.)	750 PSIG (Depending on style specified.)	750 PSIG (Depending on style specified.)	750 PSIG (Depending on style specified.)	750 PSIG (Depending on style specified.)	Operating Pressure

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5100	3800	4900	4400	4100	3900	3700	Click/ Tap images for specs
		 CAN BE CUSTOMIZED TO YOUR SPECS.			 CAN BE CUSTOMIZED TO YOUR SPECS.		
Pat. No. 5,425,271	Patent Pending				Patent Pending		
Brass or Stainless Steel	PVC	Brass or SST	Polysulfone, Polypropylene	Brass, Bronze, Stainless Steel	Brass, Bronze, Stainless Steel	Brass, Bronze, Stainless Steel	Stem & Housing Material
Stainless Steel	PVC	BUNA, Stainless Steel, Polysulfone, Polypropylene	Polysulfone, Polypropylene Optional Ryton	Stainless Steel	Stainless Steel	Stainless Steel	Float Materials
Side tank indicator, use in hazardous loca- tions, non-electrical, 2 color flag (Red & Green).	Lays at bottom of tank or double wall containment system.	Side tank mounting, high pressure, variable length stems.	Side tank mounting, economical, FDA approved material, opt. conduit connector.	Side tank mounting, high pressure. Replacement parts available.	Side tank mounting for use in contaminated and viscous fluids. Food processing equip.	External tank mounting to side of tank.	Advantages
3/4" NPT	N/A	1/8" NPT or 3/8" - 24 Bulkhead & Nut	1/2" NPT, 1/2" - 13 or 5/8" - 11 Bulkhead & Nut	1" NPT	1/8" NPT	Port size 1" NPT	Mounting Sizes
N/A	10 VA SPST	20 VA SPST	20 VA SPST	20 VA SPDT	20 VA SPST	20 VA SPST	Reed Switch
-40 °F to + 225 °F	-30 °F to + 140 °F	Depending on float specified. -40 °F to + 300 °F Max.	-40 °F to + 225 °F	-40 °F to + 300 °F	-40 °F to + 300 °F	-40 °F to + 300 °F	Operating Temperatures
400 PSI Max.	50 PSI Max.	Depending on float specified. 400 PSI Max.	Depending on float specified. 150 PSI Max.	Depending on float specified. 900 PSI Max.	50 PSI Max.	900 PSI Max.	Operating Pressure














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4800	4700 / H	4600	4500	4200 H	4200	4200	Click/ Tap images for specs
							
PVC	Brass or SST	Brass or SST	Brass or SST	Brass or SST	Brass or SST	Polysulfone or Polypropylene	Stem Materials
PVC	SST	BUNA	BUNA	SST	4200 BUNA or SST	Polysulfone or Polypropylene	Float Material
Increased float strength, economical, chemical resistant.	4700 High pressure, hazardous locations, Silicone potted, shock & vibration resistant.	Compatible with fuel, oil, etc. Silicone potted. Shock & vibration resistant. Float inter- facing available.	Compatible with fuel, oil, etc. Silicone potted. Shock & vibration resistant. Float inter- facing available.	4200H High pressure, hazardous locations, Silicone potted, shock & vibration resistant.	Fuel oil and chemical applications. Silicone potted, shock & vibration resistant.	OEM large volume use, fluted stem	Advantages
1/4" NPT	1/4" NPT	1/4" NPT	1/8" NPT	1/8" NPT	1/8" NPT	1/8" NPT or 3/8" Bulkhead	Mounting Sizes
20 VA SPST, 100 VA SPST, 20 VA SPDT, 20 VA SPST 	20 VA SPST, 100 VA SPST, 20 VA SPDT, 20 VA SPST	20 VA SPST, 100 VA SPST, 20 VA SPDT, 20 VA SPST 	20 VA SPST, 100 VA SPST, 20 VA SPDT, 20 VA SPST 	20 VA SPST, 100 VA SPST, 20 VA SPST 	20 VA SPST, 100 VA SPST, 20 VA SPST 	20 VA SPST, 100 VA SPST, 20 VA SPST 	Reed Switch
N/A	4700H Class I Div. 1 Groups C&D Class I Div. 2 Groups A,B,C, & D	N/A	N/A	4200H Class I Div. 1 Groups C&D Class I Div. 2 Groups A,B,C, & D	N/A	N/A	Hazardous Locations
-40 °F to + 140 °F	-40 °F to + 300 °F	-40 °F to + 230 °F (Depending on media.)	-40 °F to + 230 °F (Depending on media.)	Depending on float specified -40 °F to + 300 °F	Depending on float specified -40 °F to + 300 °F	-40 °F to + 225 °F	Operating Temperatures
100 PSI Max.	750 PSI Max.	150 PSI Max.	150 PSI Max.	Depending on float specified. 400 PSI Max.	Depending on float specified. 400 PSI Max.	Depending on float specified. 100 PSI Max.	Operating Pressure





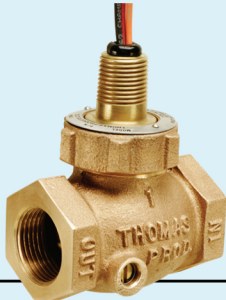
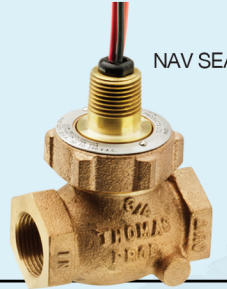
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2600		1800		1400		1300		1200		1100		Click/ Tap images for specs	
 Pat. No. 5,162,624		 Pat. No. 5,162,624								 NAV SEA			
PVC				Bronze				Bronze or SST		Bronze or SST		Housing Material	
SST, PVC & Ceramic				Brass, SST, Teflon® & Ceramic				Brass, SST & Ceramic or SST & Ceramic & Monel				Trim Materials	
Bypass design, low Δ P economical.		True flow switch operation, removable bonnet assembly, economical.		Field adjustable, eliminates turbulence & reduces Δ P, 25% . Approved for shock, vibration.		Eliminates turbulence & reduces Δ P, 25% . Approved for shock, vibration, salt spray.		Field adjustable, eliminates turbulence & reduces Δ P, 25% . Approved for shock, vibration.		Eliminates turbulence & reduces Δ P, 25% . Approved for shock, vibration, salt spray. 1100 MSB listed QPL 16032.		Advantages	
2" Slip, accepts standard adapters		1" Slip, accepts standard adapters		3/4" NPT				1" NPT		3/4" - 3" NPT		Process Connections	
20 VA SPST, 20 VA SPDT				20 VA SPDT								1100 MSB SPST 10 Watt Lampload	Reed Switch
.5 & 1.0 & 2.0 GPM		.5 & 1.0 GPM 6.0 GPM Max.		.75 - 14 GPM Field Adjustable		.75 - 10 GPM		.75 - 14 GPM Field Adjustable		.5 - 100 GPM		Set Points	
0 °F to +140 °F				-20 °F to +300 °F								Operating Temperature	
150 PSIG Max.				400 PSI @ 100 °F operating 800 PSI @ 100 °F proof load								Operating Pressure	

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2650	2000	1900	1700	1600	1500	Click/ Tap images for specs
 Patent Pending						
PVC	Brass or 316 Stainless Steel					Housing Material
PVC	Brass or Stainless Steel	Brass, 316 Stainless Steel or Ploysulfone				Trim Materials
True flow switch operation, removable bonnet assembly, economical	Self - Cleaning, true 1/2" IPS, Silicone potted shock & vibration resistant.	Long - lasting pistons with wide lands. Hardened and lapped bore. Replacement parts.			Field adjustable or factory set from either side, available graduated scale.	Advantages
1' Slip, accepts standard adapters	1/2" NPT	1/4" NPT			1/4" NPT	Process Connections
20 VA SPST, 20 VA SPDT	20 VA	20 VA SPST 20 VA SPDT	20 VA SPDT 20 VA SPST			Reed Switch
.5 & 1.0 GPM	.5 - 3.0 GPM	.1 - 1.5 GPM	Liquid: 2.0 - 300 cc/min Gas: 2.0 to 50 SCFH	Liquid: 1 - 1.5 GPM Gas: .5 - 40.0 SCFM	Liquid: 1 - 20.0 GPM Gas: 1.0 - 250 SCFM	Set Points
0 °F to 140°F	Brass unit: -20 °F to + 250 °F SST unit: -20 °F to +300 °F	Brass unit: -20 °F to + 250 °F SST unit: -20 °F to +300 °F	-20 °F to +300 °F			Operating Temperature
150 PSIG Max.	1500 PSIG Max.	1000 PSIG Max.				Operating Pressure







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1150 Non-Magnetic / Reedless	5200	2500	2400	2200	2100	Click/ Tap images for specs
						
Patent Pending	Pat. No. 5,245,271					
Bronze or SST w/PPE (Ryton®) J-Box	Brass or 316 Stainless Steel	Ploysulfone	Brass or 316 Stainless Steel	Polysulfone		Housing Material
Brass, SST, PTFE (Teflon®)	316 Stainless Steel	Ploysulfone 316 SST	316 Stainless Steel	Polysulfone	Polysulfone 316 SST	Trim Materials
Eliminates Turbulence & Reduces, ΔP , 25%	Indicator use in hazardous locations 2 color flag.	SPDT reed switch assembly	SPDT reed switch assembly, all metal wetted parts, rugged investment cast components.	Stronger one - piece housing silicone potted, shock & vibration resistant, reverse taper bore, self cleaning. All wetted material PSF.		Advantages
1" FNPT	3/4 NPT	1" NPT		9/16" - 18 UNF 2 B threads. Accepts variety of adapters. See website.		Process Connections
Snap-Action Switch 10 Amp 1/2 HP 125-240 VAC	NA	20 VA SPDT		20 VA SPDT	15 VA SPST or 20 VA SPDT	Reed Switch
0.5 - 8.0 GPM	1.5 - 5.0 GPM	Custom cut paddle to appropriate pipe sizes. Field adjustable set points.		.1 - .75 GPM	.1 - 1.5 GPM Optional 1 cc/min to 300 cc/min	Set Points
-20 °F to +300 °F	-40 °F to +225 °F		-30 °F to +300 °F	-40 °F to +225 °F		Operating Temperature
400 PSI @ 100° F operating 800 PSI @ 100° Proof Load	400 PSI @ 70° F	150 PSIG Max.	850 PSIG Max.	700 PSI @ 70° F		Operating Pressure

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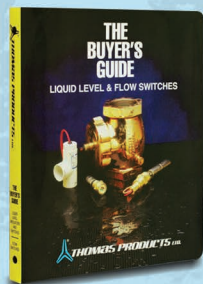
Value Added

Products and Services

Accessories



Pump Controls



For detailed specifications
or to order our Buyer's Guide
please visit our website or
contact our sales department.



Model 5100
liquid level indicator

A Case History of Value Added Services

As a quality driven manufacturing company, we at Thomas Products LTD., believe that a manufacturer should at least manufacture most of what they sell and NOT resell a foreign made product. And for us, manufacturing quality sensors is only the beginning. Thomas Products LTD., is an innovative solutions provider helping customers solve complex design problems. With quick time to market production strategies and cost savings, our products and services are second to none. The case history below is just one example of how we helped a customer who wanted to think outside the box.

Our Customer's Dilemma:

A customer previously bought flow switches via a blanket order that they hoped to add into the plumbing of their manifold as depicted in the **photo below**. As the project unfolded, it became clear that most of their time was being spent coordinating vendors, negotiating pricing and delivery, not to mention machine time and training their staff to complete the project. The final cost to produce a finished product was approximately \$ 480.00 per unit and headaches off the charts.

The TPL Solution:

When Thomas Products LTD., was approached to develop a high-quality cost effective solution, our design team and production staff convened and made recommendations to our customer.

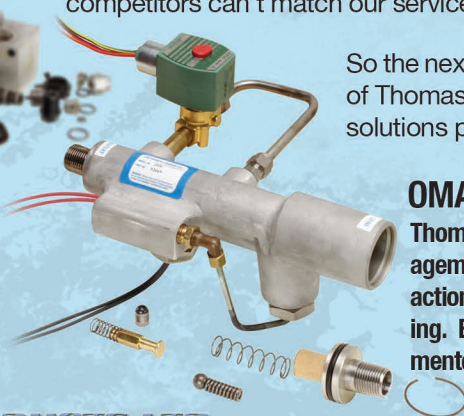
With our production team handling almost all of the manufacturing process to incorporate a flow switch and temperature switch into a manifold, we were able to create a product that could be delivered for \$ 266.00 per unit, far below the customer's original cost of \$ 480.00 per unit.

This is what we love to do, and we've been doing it for over 35 years. We have the knowledge, machining capabilities and a great design and production team. We are a quiet company with a lot to offer and we're convinced our competitors can't match our service and dedication to our customers.

So the next time you're thinking outside the box, think of Thomas Products LTD., as your innovative solutions provider.

OMA Program

Thomas Products Ltd., offers this Obsolescence Management Alternative Program to ensure the required actions to prepare for EOL interruption in manufacturing. Even product health update reports can be implemented. Contact Thomas Products Ltd. for details.



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