

# Prevent Serious Chemical Metering Problems

**THOMAS PRODUCTS**  
Introduces Four New Flow Switches  
with integral pump control.  
**Designed & Manufactured  
For Water Treatment**

## Woman Injured

She stepped into the shower. The water contained too rich a blend of caustic soda solution installed in the system as a means of acid water neutralization. She was burned over her entire body.

This, and other serious problems, can result when water being supplied is not enough to dilute the concentrated solutions being injected by metering pumps, thus causing the water to become dangerously rich with chemical solutions. But the new flow switches developed by Thomas Products, LTD., a leader in flow switch technology, can eliminate or minimize the possibility of such accidents occurring. With a wide array of applications, from acid water neutralization to super chlorination to boiler water treatment applications, whenever a metering pump is used, a positive displacement flow switch should be installed.

## Improved Design... no electrical wiring & easy to install.

- New body design inlet port is moved away from shuttle
- New Shuttle design
- Internal running lands with clearance helps pass dirty water
- Four outlets! 2 switched - 2 constant
- Indoor & Outdoor Models



## Great For

- Water Softeners
- Chemical Irrigation
- Water Pumps

**THOMAS PRODUCTS LTD.**  
Sales **800.666.9101**  
[www.ThomasProd.com](http://www.ThomasProd.com)



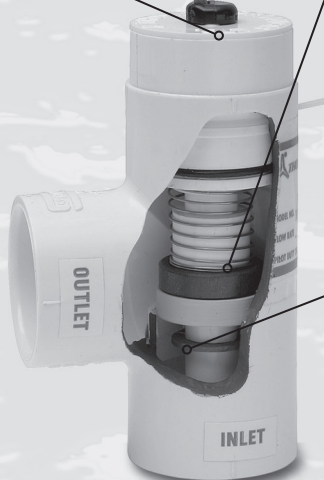
# 1800 Flow Switch Only

p/n see chart

Solid one piece removable bonnet assembly means safer use to 150 PSI.

True-flow switch design utilizes a SST return spring for any mounting attitude.

Anti-meniscus projections on shuttle prevents shuttle from drying in place after long machine shutdowns.



Patent No. 5,162,624



UL File E86797

## 1800 Features

Plastics are molded in-house using only 100% virgin material. Runners are not reintroduced to the performance parts.

- PVC Construction.
- Removable Bonnet Assembly.
- Return Spring For Any Mounting Attitude.
- 1" slip ports / adapters available on back page.

Standard Flow Setting	P/N
0.5 GPM	42549-A
1.0 GPM	42545-A

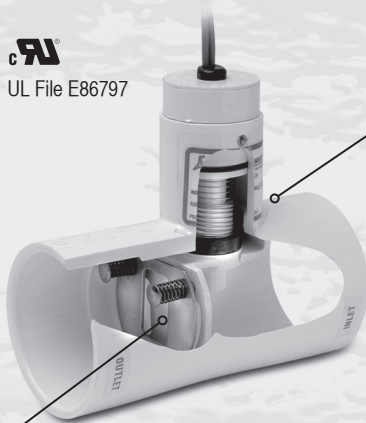
**See More Specifications On Back Page**

# 2600 Flow Switch Only

p/n see chart



UL File E86797

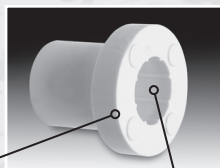


Plastics are molded in-house using only 100% virgin material. Runners are not reintroduced to the performance parts.

Patent No. 5,162,624

Patented design SST clapper lower  $\Delta P$  and helps pass particulates.

**Newly Designed Shuttle With Running Lands!**



New tapered end design.

Running lands help pass small particulates.

## Electrical 1800 & 2600

Reed switch shown in NO FLOW condition.

RED / RED  
SPST, NORMALLY OPEN AT NO FLOW

## Switch Ratings... Max Resistive Load

V.A.	Volts	AMPS DC	AMPS AC	AMPS AC MAX
20	0 - 50	.4	.4	1.0
	120	.15	.16	
	240	.06	.08	

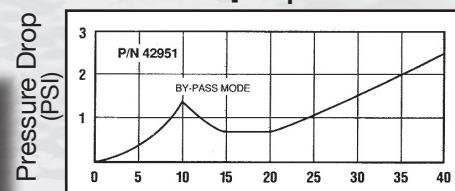
Switch Rating 20 VA: 50 - 240 VAC Pilot Duty

## 2600 Features

Serialization, documentation retained on purchased materials, processes, inspection etc.

- Removable Bonnet Assembly.
- Replacement parts available.
- 2" slip ports / adapters available on back page.

## Pressure Drop $\Delta p$ :



STD. Flow Setting	0.5 GPM	1.0 GPM	2.0 GPM
P/N	42951	42952	42953

Standard flow calibration is in water @ 70° F with lead wires up. Calibrated on increasing flow. Calibration: Flow standards are calibrated to the National Bureau of Standards and Thomas Products LTD. recalibration schedule.

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## 2650 Flow Switch Only

Solid one piece removable bonnet assembly means safer use to 150 PSI.



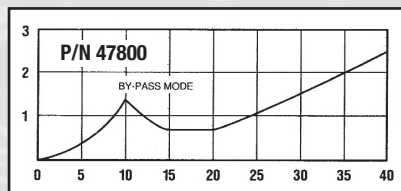
Spoked Orifice  
Patent Pending



Anti-meniscus projections on shuttle prevents shuttle from drying in place after long machine shutdowns.

Patent Pending

True-flow switch design utilizes a SST return spring for any mounting attitude.



### 2650 Features

Plastics are molded in-house using only 100% virgin material. Runners are not reintroduced to the performance parts.

- PVC Construction.
- Removable Bonnet Assembly.
- Return Spring For Any Mounting Attitude.
- 1" slip ports / adapters available on back page.
- Spoked orifice for laminar flow.

Standard Flow Setting	P/N
0.5 GPM	47800
1.0 GPM	47801

### Electrical 2650

Reed switch shown in NO FLOW condition.

RED RED  
SPST, NORMALLY OPEN AT NO FLOW

### Switch Ratings...

#### Max Resistive Load

V.A.	Volts	AMPS DC	AMPS AC	AMPS AC MAX
20	0 - 50	.4	.4	1.0
	120	.15	.16	
	240	.06	.08	

Switch Rating 20 VA: 50 - 240 VAC Pilot Duty

## 2651 Indoor Pump Control (note) p/n 47850

(NOTE: 1801 is the most used residential model)



Single receptacle is switched on by the flow switch.

Line cord extends nine feet. Plug into standard 120 VAC receptacle.

### 2651 Specifications

- 1" Slip Ports / Adapters Available On Back Page.
- Calibrated @ 0.5 GPM On Increasing Flow.
- Flow Set Points Available To 6.0 GPM.
- Locking Wire For Easy Disassembly For Cleaning.
- True-Flow switch design utilizes a SST return spring for any mounting attitude.
- Input 120 VAC / Output 120 VAC 10A 1/2 HP.

Consult Factory To Order



Patent Pending

UL File E86797   
Listed 41EA



## 2654 Indoor Pump Control *p/n 47925*

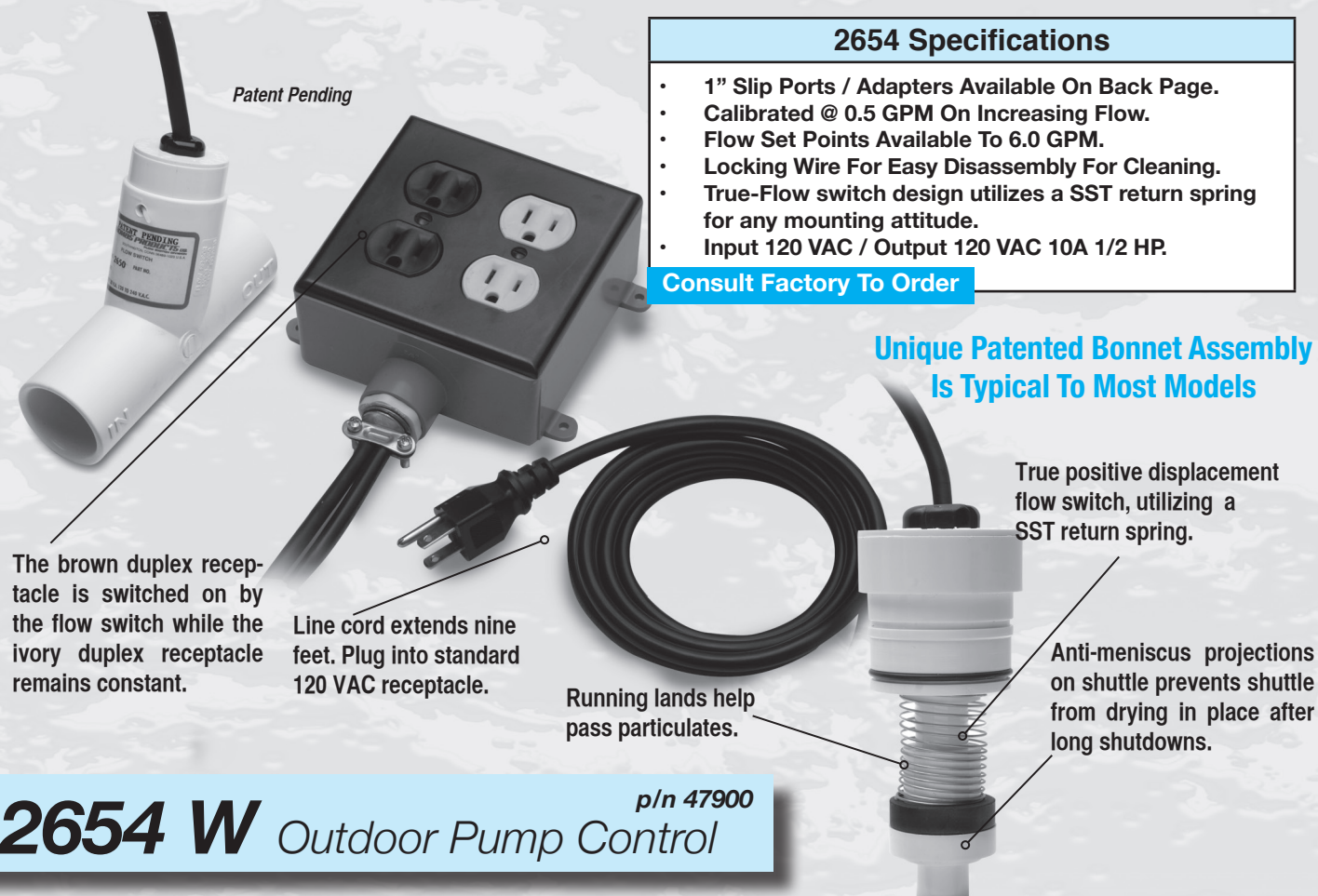
**Additional Specifications  
On Back Page**

### 2654 Specifications

- 1" Slip Ports / Adapters Available On Back Page.
- Calibrated @ 0.5 GPM On Increasing Flow.
- Flow Set Points Available To 6.0 GPM.
- Locking Wire For Easy Disassembly For Cleaning.
- True-Flow switch design utilizes a SST return spring for any mounting attitude.
- Input 120 VAC / Output 120 VAC 10A 1/2 HP.

**Consult Factory To Order**

**Unique Patented Bonnet Assembly  
Is Typical To Most Models**

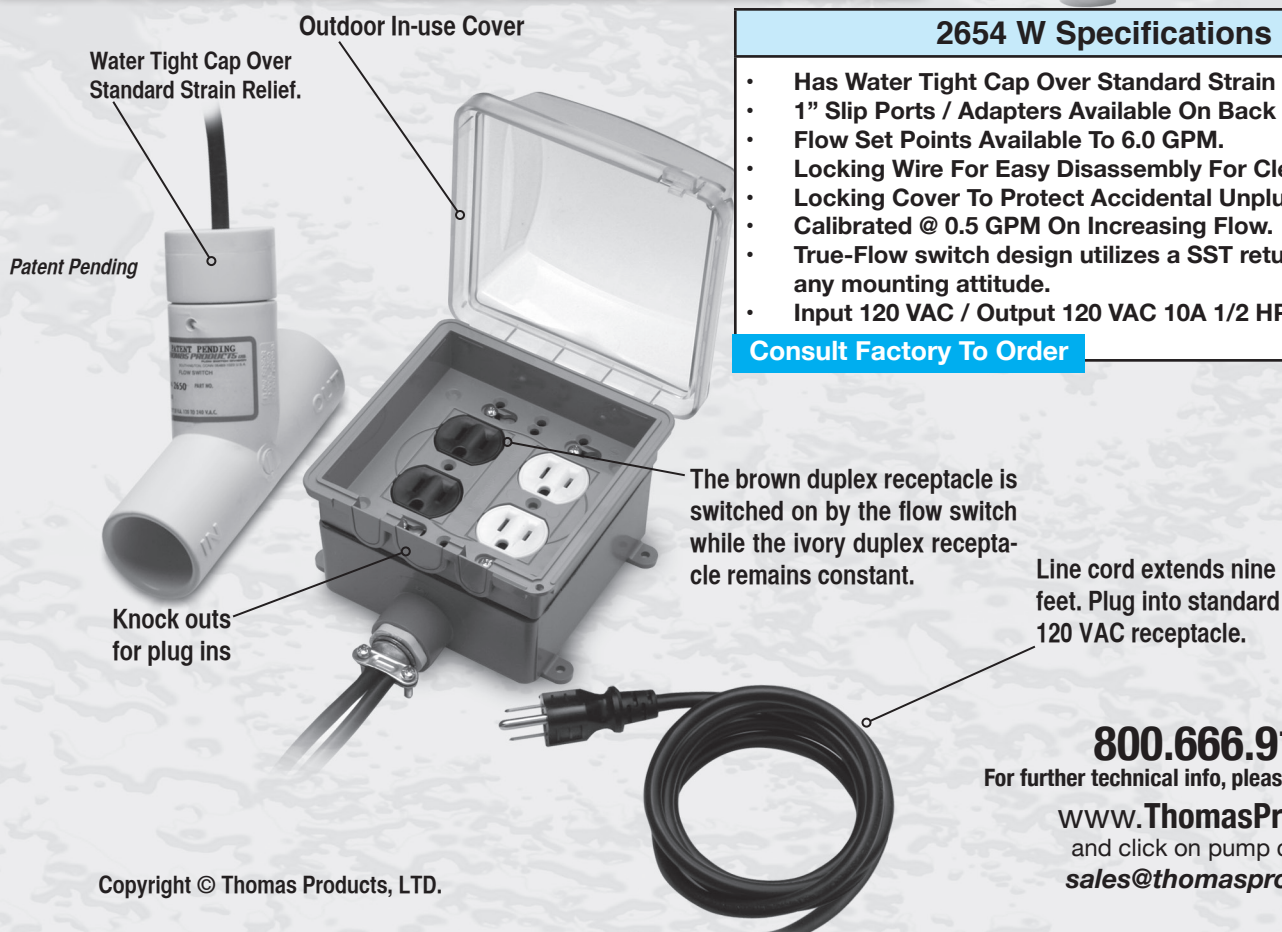


## 2654 W Outdoor Pump Control *p/n 47900*

### 2654 W Specifications

- Has Water Tight Cap Over Standard Strain Relief.
- 1" Slip Ports / Adapters Available On Back Page.
- Flow Set Points Available To 6.0 GPM.
- Locking Wire For Easy Disassembly For Cleaning.
- Locking Cover To Protect Accidental Unplugging.
- Calibrated @ 0.5 GPM On Increasing Flow.
- True-Flow switch design utilizes a SST return spring for any mounting attitude.
- Input 120 VAC / Output 120 VAC 10A 1/2 HP.

**Consult Factory To Order**



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# 1804 Indoor Pump Control

p/n 47651-A

## Additional Specifications On Back Page

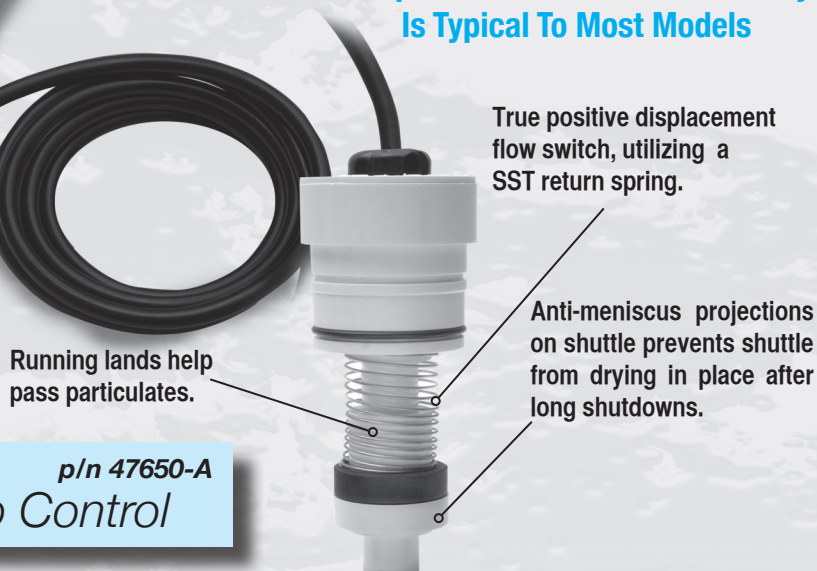


### 1804 Specifications

- 1" Slip Ports / Adapters Available On Back Page.
- Calibrated @ 0.5 GPM On Increasing Flow.
- Flow Set Points Available To 6.0 GPM.
- Locking Wire For Easy Disassembly For Cleaning.
- True-Flow switch design utilizes a SST return spring for any mounting attitude.
- Input 120 VAC / Output 120 VAC 10A 1/2 HP.

Consult Factory To Order

### Unique Patented Bonnet Assembly Is Typical To Most Models



# 1804 W Outdoor Pump Control

p/n 47650-A



### 1804 W Specifications

- Has Water Tight Cap Over Standard Strain Relief.
- 1" Slip Ports / Adapters Available On Back Page.
- Flow Set Points Available To 6.0 GPM.
- Locking Wire For Easy Disassembly For Cleaning.
- Locking Cover To Protect Accidental Unplugging.
- Calibrated @ 0.5 GPM On Increasing Flow.
- True-Flow switch design utilizes a SST return spring for any mounting attitude.
- Input 120 VAC / Output 120 VAC 10A 1/2 HP.

Consult Factory To Order

The brown duplex receptacle is switched on by the flow switch while the ivory duplex receptacle remains constant.

Line cord extends nine feet. Plug into standard 120 VAC receptacle.

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and click on pump controls.

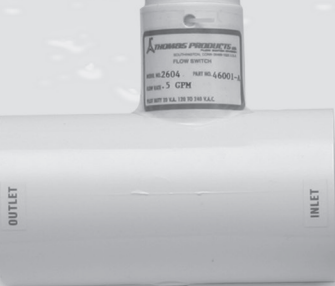
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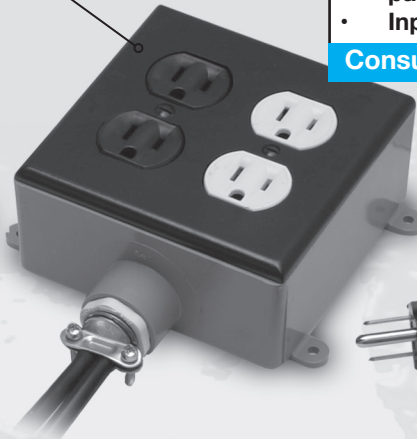
# 2604 Indoor Pump Control

p/n 47451

The brown duplex receptacle is switched on by the flow switch while the ivory duplex receptacle remains constant.



Patent No. 5,162,624



## 2604 Specifications

- 2" Slip Ports / Adapters Available On Back Page.
- Calibrated @ 0.5 GPM On Increasing Flow.
- Locking Wire For Easy Disassembly For Cleaning.
- Flow Set Points Available To 6.0 GPM.
- True-Flow switch design utilizes a SST return spring for any mounting attitude.
- Patented design SST clapper lower  $\Delta P$  and opens to pass high flow rates.
- Input 120 VAC / Output 120 VAC 10A 1/2 HP.

Consult Factory To Order

Line cord extends nine feet. Plug into standard 120 VAC receptacle.

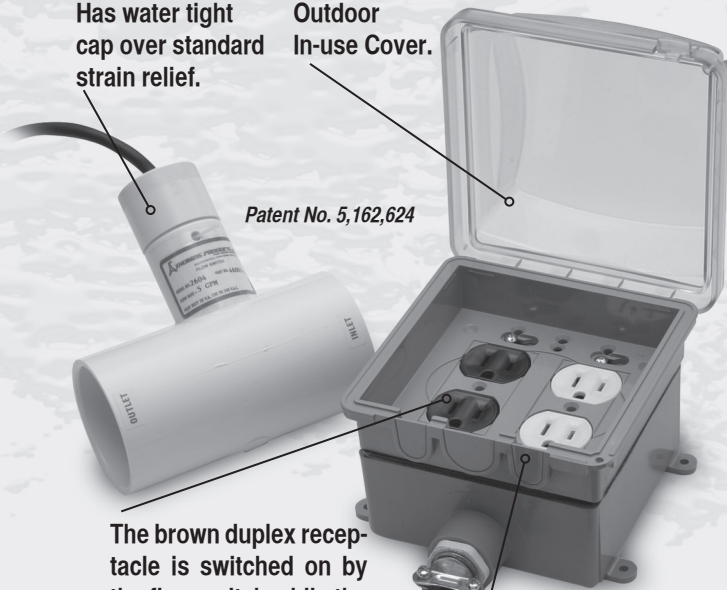


# 2604 W Outdoor Pump Control

p/n 47452

Has water tight cap over standard strain relief.

Outdoor In-use Cover.



Patent No. 5,162,624

The brown duplex receptacle is switched on by the flow switch while the ivory duplex receptacle remains constant.

Knock outs for plug ins

## 2604 W Specifications

- Has Water Tight Cap Over Standard Strain Relief.
- 2" Slip Ports / Adapters Available On Back Page.
- Flow Set Points Available To 6.0 GPM.
- Locking Wire For Easy Disassembly For Cleaning.
- Locking Cover To Protect Accidental Unplugging.
- Calibrated @ 0.5 GPM On Increasing Flow.
- Patented Clapper Design Allows A Bypass Mode To Flow Much More Than Set Point.
- True-Flow switch design utilizes a SST return spring for any mounting attitude.
- Patented design SST clapper lower  $\Delta P$  and opens to pass high flow rates.
- Input 120 VAC / Output 120 VAC 10A 1/2 HP.

Consult Factory To Order

Line cord extends nine feet. Plug into standard 120 VAC receptacle.



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and click on pump controls.

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# 1801 Indoor Pump Control (note)



p/n 45325-B

(NOTE: 1801 is the most used residential model)

## 1801 Specifications

- 1" Slip Ports / Adapters Available On Back Page.
- Calibrated @ 0.5 GPM On Increasing Flow.
- Flow Set Points Available To 6.0 GPM.
- Locking Wire For Easy Disassembly For Cleaning.
- True-Flow switch design utilizes a SST return spring for any mounting attitude.
- Input 120 VAC / Output 120 VAC 10A 1/2 HP.

Consult Factory To Order

UL File E86797 •    
Listed 41EA

Line cord extends nine feet.  
Plug into standard 120 VAC  
receptacle.

Single receptacle is switched  
on by the flow switch.

Patent No. 5,162,624

# 2601 Indoor Pump Control (note)



p/n 46001-a

(NOTE: 2601 is the most used residential model)

## 2601 Specifications

- 2" Slip Ports / Adapters Available On Back Page.
- Calibrated @ 0.5 GPM On Increasing Flow.
- Flow Set Points Available To 6.0 GPM.
- Locking Wire For Easy Disassembly For Cleaning.
- True-Flow switch design utilizes a SST return spring for any mounting attitude.
- Patented design SST clapper lower  $\Delta P$  and opens to pass high flow rates.
- Input 120 VAC / Output 120 VAC 10A 1/2 HP.

Consult Factory To Order

UL File E86797 •    
Listed 41EA

Line cord extends nine feet.  
Plug into standard 120 VAC  
receptacle.

Single receptacle is switched  
on by the flow switch.

Patent No. 5,162,624

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**Specifications**  
1800 & 2600  
(flow switches only)

Construction	PVC Housing & Shuttle
Spring	316 SST
O-Ring	Viton "A"
Wire Leads	18 AWG, 24" Lg.
Oper. Temp	- 20° F / + 140° F
Max. Pres.	150 PSIG
Set Pt. Accur.	Accur. ± 20% Diff. 20% MAX
Reed Switch	20 Watt SPST

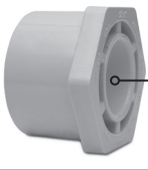

**Specifications**  
1801, 1804, 1804W 2601,  
2604, 2604W

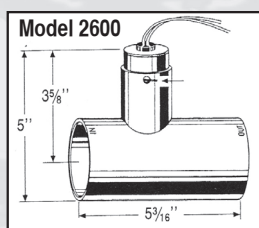
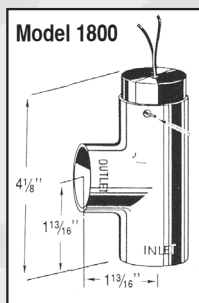
Construction	PVC Housing & Shuttle
Spring	316 SST
O-Ring	Viton "A"
Wire	SJOOW Cable
Oper. Temp	- 20° F / + 122° F
Max. Pres.	150 PSIG
Set Pt.	Accur. ± 20% Diff. 20% MAX
Feed Pump Turns On At	0.5 GPM
Electrical	120 VAC 1/2 HP Max

**Recommended Adapters**  
1800, 1801, 1804, 1804W

May be used with 1" slip ports or any combination shown		
P/N	Dimensional Data	
42751		3/4" Slip
42752		1/2" Slip
42753		3/4" NPT
42754		1/2" NPT

**Recommended Adapters**  
2600, 2601, 2604, 2604W

May be used with 2" slip ports or any combination shown		
P/N	"A"	Dimensional Data
42954	1 1/2"	
42955	1 1/4"	
42956	1"	
42957	3/4"	
42958	1/2"	
P/N	"B"	Dimensional Data
42959	1 1/2"	
42960	1 1/4"	
42961	1"	
42962	3/4"	
42963	1/2"	



# Easily Customized RAPID DELIVERY

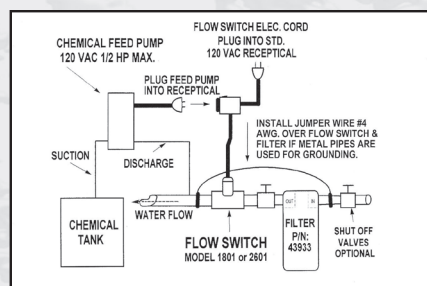
INSTALLATION:  
Install unit in proper IN/OUT direction with  
control assembly pointing up. Keep unit free of all  
thermal sealing compounds, etc. The use of a maximum  
50 micron filter is strongly suggested.

For PVC Pipe or Adapters: Remove barrel assembly,  
use standard medium bodied PVC solvent cement,  
customer supplied. It is IMPORTANT that you wipe  
out any excess cement from external threads. Reinstall  
barrel assembly. Follow installation instructions on label.

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Our short order department can build almost any standard **Thomas Products** flow or level sensor onto the pump control unit.

**For immediate help, call 800.666.9101 to speak with our expert technicians.**



Sediment Water Filter	
P/N	Data / Features
43933	3/4" NPT Inlet/Outlet Cold Water use to 125 PSIG. Clear inspection bowl. High output head.



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