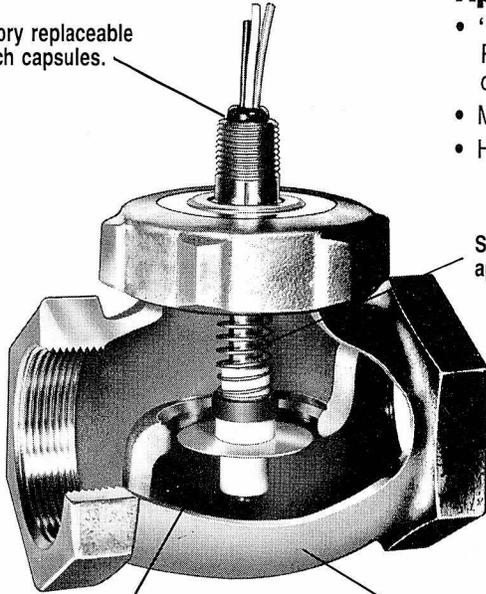


Please turn to our **Company Profile** and **Level Switch Selection Guide** to learn more of the advantages in specifying **Thomas Products Ltd.** sensors.

FIXED SET POINTS, 3/4" - 3" NPT, BRONZE & SST

Factory replaceable switch capsules.



Applications:

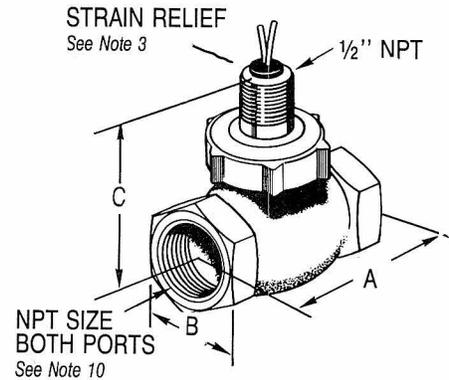
- "INDUSTRIAL STANDARD" Rugged and accurate flow detection for most applications.
- Machine Tool Industry
- HVAC Equipment

Shock and vibration approved.

Welding performed in low hydrogen environment.

True globe-shaped housings yield lower ΔP and minimize turbulence.

Dimensional Data:



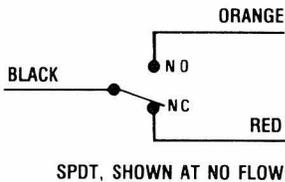
| SIZE NPT | A | B HEX | C |
|----------|--------|--------|--------|
| 3/4" | 27/8 | 13/8 | 23/4 |
| 1" | 31/4 | 125/32 | 3 |
| 1 1/4" | 4 | 23/16 | 33/16 |
| 1 1/2" | 4 1/2 | 2 1/2 | 3 1/2 |
| 2" | 5 3/8 | 3 3/32 | 4 |
| 2 1/2" | 6 5/16 | 3 5/8 | 4 1/2 |
| 3" | 7 3/8 | 4 3/8 | 5 5/32 |

Specifications:

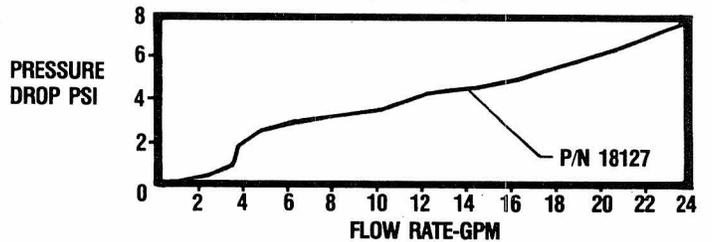
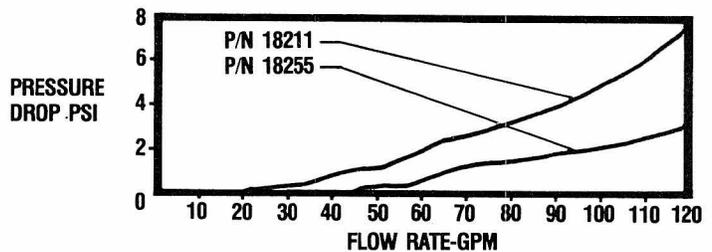
| Housing | Shuttle | Spring | "O" Ring | Reed Switch | Wire | Oper. Temp. | Oper. Pres. | Proof Load | Burst Strength | Set Pt. Accur. | Set Pt. Diff. | Repeatability |
|-------------------|-------------------------------------|---------|-----------|----------------------------------------------|-------------------------------------------------------|-----------------------------------------------|-----------------|-----------------|------------------|------------------------------------------|---------------|-------------------|
| Bronze or 316 SST | Teflon <small>See Note 7</small> | 316 SST | Viton "A" | 20 Watt SPDT <small>See Notes 4,5</small> | 18 AWG 24" Lg. Polymeric <small>See Note 6</small> | -20°F to +300°F <small>See Note 11</small> | 400 PSI @ 100°F | 800 PSI @ 100°F | 1200 PSI @ 100°F | ± 10% MAX. <small>See Note 14</small> | ± 10% | 1% Max. Deviation |

Electrical:

Reed switch shown in NO FLOW condition.



Pressure Drop Δp :



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: 120-240 VAC Pilot Duty
UL File E86797

FIXED SET POINTS, 3/4" - 3" NPT, BRONZE & SST

Part No.

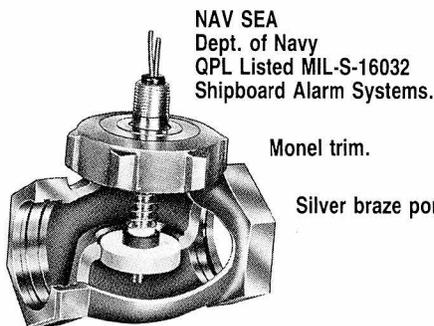
| SIZE NPT | FLOW SETTING GPM <small>See Note 1, 12</small> | P/N BRONZE | P/N 316 SST |
|------------------------------------|---------------------------------------------------|------------|-------------|
| 3/4" <small>See Note 13</small> | .5 | 18100 | |
| | 1.0 | 18101 | |
| | 2.0 | 18102 | |
| | 3.0 | 18103 | |
| | 4.0 | 18104 | |
| | 5.0 | 18105 | |
| | 6.0 | 18106 | |
| 1" | .5 | 18127 | 18140 |
| | 1.0 | 18128 | 18141 |
| | 2.0 | 18129 | 18142 |
| | 3.0 | 18130 | 18143 |
| | 4.0 | 18131 | 18144 |
| | 5.0 | 18132 | 18145 |
| | 6.0 | 18133 | 18146 |
| 1 1/4" | 1.0 | 18153 | |
| | 2.0 | 18154 | |
| | 4.0 | 18155 | |
| | 6.0 | 18156 | |
| | 8.0 | 18157 | |
| | 10 | 18158 | |
| | 12 | 18159 | |
| 1 1/2" | 16 | 18160 | |
| | 20 | 18161 | |
| | 1.5 | 18183 | 18197 |
| | 3 | 18184 | 18198 |
| | 5 | 18185 | 18199 |
| 3" | 7.5 | 18186 | 18200 |
| | 10 | 18187 | 18201 |

| SIZE NPT | FLOW SETTING GPM <small>See Note 1, 12</small> | P/N BRONZE | P/N 316 SST |
|----------|---------------------------------------------------|------------|-------------|
| 1 1/2" | 15 | 18188 | 18202 |
| | 20 | 18189 | 18203 |
| | 30 | 18190 | 18204 |
| | | | |
| 2" | 2 | 18211 | 18225 |
| | 4 | 18212 | 18226 |
| | 5 | 18213 | 18227 |
| | 10 | 18214 | 18228 |
| | 15 | 18215 | 18229 |
| | 26 | 18216 | 18230 |
| | 35 | 18217 | 18231 |
| | 50 | 18218 | 18232 |
| 2 1/2" | 5 | 18239 | |
| | 10 | 18240 | |
| | 15 | 18241 | |
| | 20 | 18242 | |
| | 25 | 18243 | |
| | 30 | 18244 | N/A |
| | 40 | 18245 | |
| | 50 | 18246 | |
| | 60 | 18247 | |
| | 75 | 18248 | |
| 3" | 5 | 18255 | |
| | 15 | 18256 | |
| | 20 | 18257 | |
| | 25 | 18258 | |
| | 30 | 18259 | |
| | 40 | 18260 | N/A |
| | 50 | 18261 | |
| | 60 | 18262 | |
| | 75 | 18263 | |
| | 100 | 18264 | |

Notes: Model 1100

- Standard flow calibration is in water @ 70°F. Calibrated on increasing flow.
- Temperature effect on flow settings: water calibration, slight change; oil varies with viscosity.
- Strain reliefs are standard. Optional silicone potting avail. Consult factory.
- Optional 100W SPST reed switches are stocked. Consult factory.
- Relays for higher loads, junction boxes, terminal strips, etc. are available. See accessories section for details (See Page 28)
- Optional cables available. Consult factory.
- Other wetted materials: ceramic ring magnet.
- Optional SST identification tags attached to unit. Consult factory.
- Optional M/S connector. MS3102E10S-3P
- Optional port sizes: BSP, SAE, silver braze, socket weld, etc. Consult factory.
- High temperature units available to 400°F. Consult factory.
- Standard flow settings are calibrated in water. Other set points in water or oil are available. Consult factory.
- For pipe sizes smaller than 3/4", install appropriate size bushings.
- Calibration: Flow stands are calibrated to the National Bureau of Standards and Thomas Products Ltd. recalibration schedule.

Specialty Options:

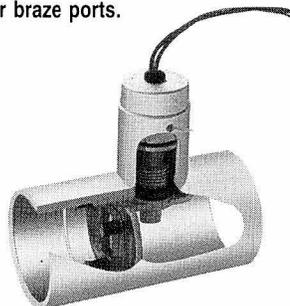


MODEL 1100M-SB
Marine Flow Switch
for sea water
applications.

NAV SEA
Dept. of Navy
QPL Listed MIL-S-16032
Shipboard Alarm Systems.

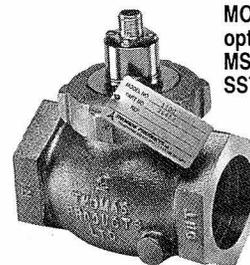
Monel trim.

Silver braze ports.

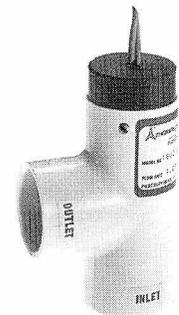


Pat. No. 5,162,624

MODEL 2600
Economical PVC. Straight
through flow path.



MODEL 1100 with
optional M/S connector.
MS3102E10S-3P and
SST Ident. tag.



MODEL 1800
Economical PVC.
90° flow path.