

# 100931 TMT Flow Switch

## SS Tri-Magnet Technology Inline Flow Switch



### FEATURES

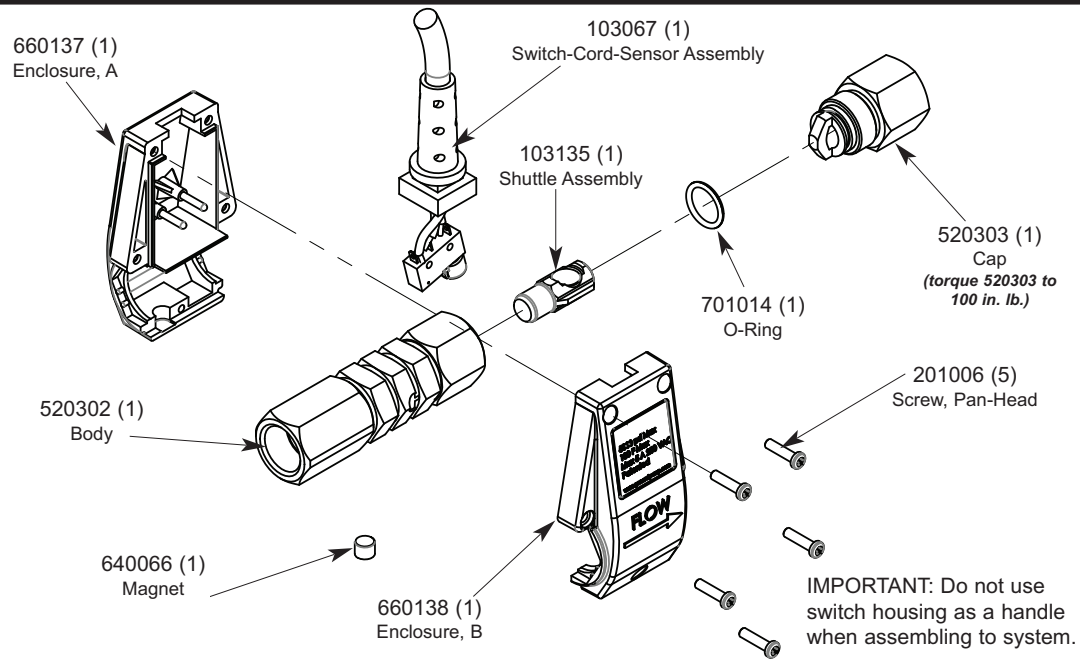
- Micro-switch technology eliminates reed switch
- Activates with 1.5 gpm flow
- Stainless Steel shuttle
- Minimal pressure drop up to 12 gpm flow
- Can be mounted in any position

### SPECIFICATIONS

<b>Part Number</b>	<b>100931</b>	
<b>Maximum Operating Pressure</b>	5000 PSI	
<b>Minimum Flow Required for Activation</b>	1.5 GPM @ 50 PSI	
<b>Maximum Operating Flow</b>	12.0 GPM	
<b>Operating Temperature Range</b>	40 - 180 °F	
<b>Electrical Lead Length</b>	48" - 18AWG	
<b>Switch Ratings</b>	Max Switching Voltage	250 VAC
	Max Switching Current	5 AMPS
	Resistance with Leads	30 OHM
<b>Ports</b>	Inlet	3/8" NPT-F
	Outlet	3/8" NPT-F
<b>Dimensions</b>	3.91" x 1.4" x 2.95"	
<b>Weight</b>	1.0 LBS	
<b>Materials</b>	Stainless Steel, Plastic, Nickel-plated Neodymium	

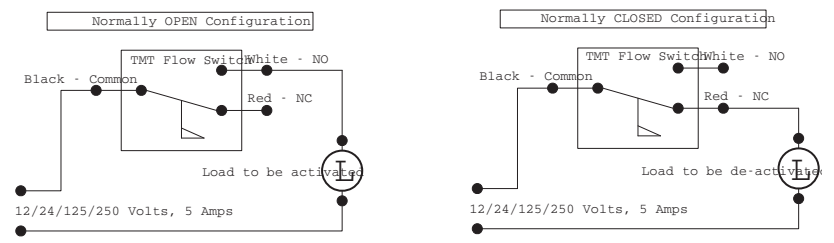
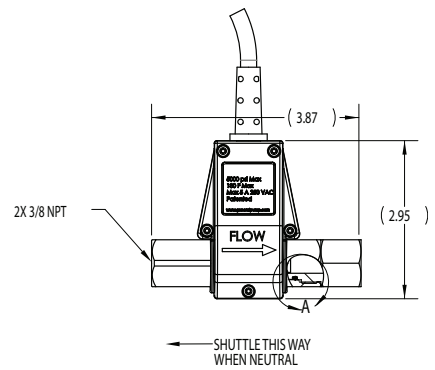
### EXPLODED VIEW

**NOTE:** When using this flow switch in a system containing a positive displacement pump, General Pump recommends the use of a safety relief device(s), correctly placed to protect all areas of the system.



**IMPORTANT:** Do not use switch housing as a handle when assembling to system.

### DIMENSIONS AND WIRING SCHEMATIC



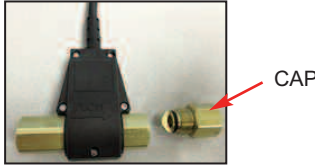
General Pump is a member of The Interpump Group



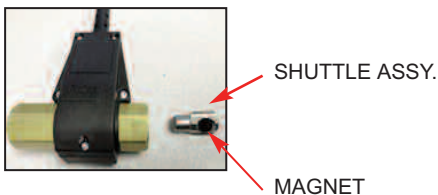
# 100931 TMT Flow Switch Tri-Magnet Technology

## SERVICE INSTRUCTIONS

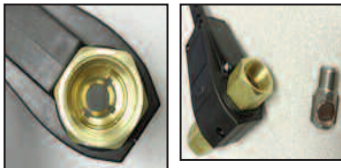
1. Remove external plumbing from device, as needed.
2. Remove "Cap" (520303)



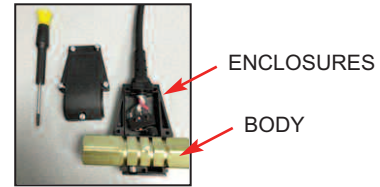
3. Slide out "Shuttle Assy" (103135); if magnet is damaged or missing, replace device.



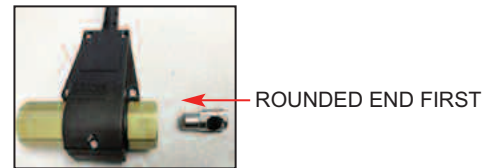
4. Observe "Shuttle Assy" and internal portion of "Body" (520302) for obstructions, hard-water deposits, or any other foreign debris. Remove via light scraping and/or compressed air.



5. If required, remove "Body" from plastic "Enclosures" (660137 and 660138) and soak in CLR or similar solution to dislodge excessive build-up. QTY (5) "Screws" (201006) for "Enclosure" are TORX T10.



6. Rinse "Body".
7. Re-install "Body" into "Enclosures" as shown above, taking care to not damage. Tighten "Screws" until snug. Do not over-tighten.
8. Insert "Shuttle Assy", with rounded end first, into body. Align with grooves.



9. Install "Cap", torque to 100 in.lbs. (Replace "O-ring" (701014) as needed)
10. If possible, verify operation by activating "Shuttle" manually while observing continuity to leads. "Shuttle" should return to home position automatically.



11. Re-install device on equipment, test operation.

## TROUBLESHOOTING

If device will not operate, verify:

- Are magnets damaged or missing?
- Is there an obstruction preventing shuttle from sliding?
- Is "Shuttle Assy" in correct orientation?
- Is the electrical switch operating correctly? (can be verified by checking continuity and activating shuttle/switch manually)



Ref 300842 Rev D  
04-17