

GENERAL PUMP *A member of the Interpump Group*

100931 TMT Flow Switch

SS Tri-Magnet Technology Inline Flow Switch



FEATURES

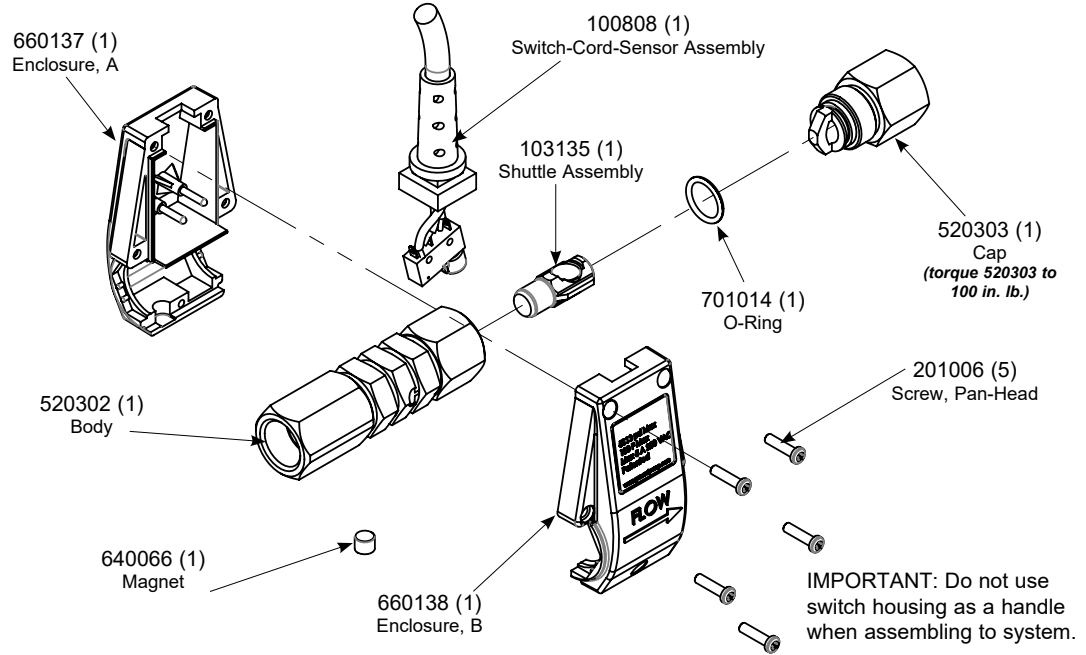
- Micro-switch technology eliminates reed switch
- Activates with 1.5 gpm flow
- Stainless Steel shuttle
- Minimal pressure drop up to 12 gpm flow
- Can be mounted in any position

SPECIFICATIONS

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

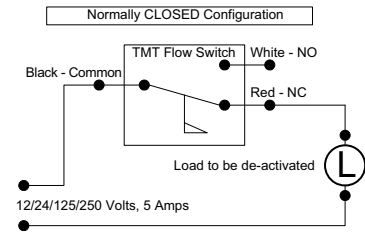
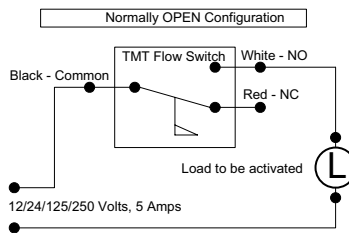
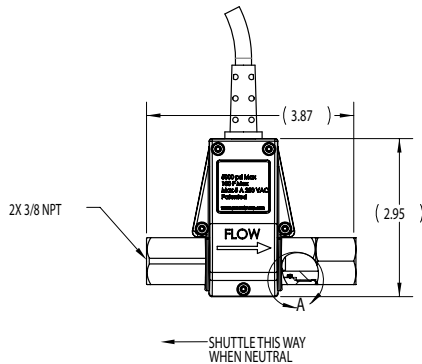
EXPLODED VIEW

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



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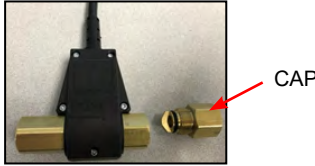


100931 TMT Flow Switch Tri-Magnet Technology

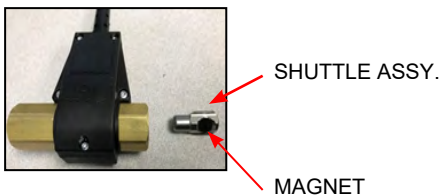
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SERVICE INSTRUCTIONS

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



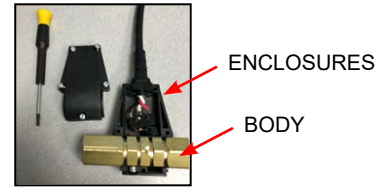
3. Slide out "Shuttle Assy" (103135); if magnet is damaged or missing, replace device.



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)

