

9G-EF (MERCURY FREE) DIRECT ACTING FLOAT SWITCH (B100)

The 9G-EF is the most reliable non-mercury float switch. It is Teflon®-coated, non-differential float of Type 304 SS, measures 5.5" (13.97 cm) in diameter and is appropriate for a variety of applications, including sewage wet wells, storm water basins, water reservoirs, sludge tanks, irrigation canals and process sumps. The float operates reliably in even the most difficult environments. The 9G-EF can be used singly to sense an alarm level, but typically two or more switches are used in conjunction with our controllers to provide a float-based control system. The 9G-EF can be used as the redundant control sensor in larger automation installations.

TYPICAL SPECIFICATIONS

Float switch body shall be constructed of Teflon®-coated, 20 gauge, 304 stainless steel housing measuring not less than 5 1/2" (13.97 cm) in diameter. A long life, high reliability, potted SPST magnetic reed switch rated for not less than 100 VA at up to 250 Volts shall be mounted inside the float and connected to a multi-stranded, 2 conductor plus ground, 16 gauge, CPE jacketed cable. The cord shall have fine strand conductors (not more than 34 gauge) made especially for heavy flexing service. The cable connection point shall be potted in epoxy providing a strong bond to the float and reed switch forming a water/moisture tight connection. A flexible Neoprene sleeve, not less than 1/8" (0.457 cm) thick, shall be provided over the CPE jacketed cable extending not less than 5" (12.7 cm) from

the top of the mounting bracket extending down through the cable mounting bracket hinge point to the top of the float switch body, providing cable stress point relief and extended operational life.

A 304 stainless steel flanged cable mounting clamp assembly shall be supplied allowing pipe or cable mounting as specified below. The float cable-mounting bracket shall be flared on both sides providing hinge point stress relief to both sides of the cable.

The float switch assembly shall provide a minimum of two pounds of buoyancy in solutions with a specific gravity of 1.0 (water) and shall have an operating temperature rating of -31 to 194 degrees F (-35 to +90 degrees C).

The float switches shall be Model 9G-EF floats as manufactured by Evoqua Water Technologies, Control Systems Products.

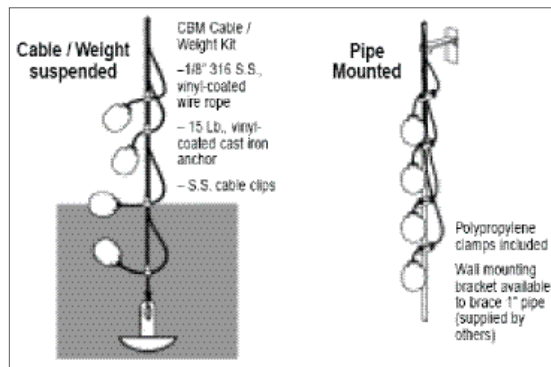
FEATURES

- Mercury Free – Magnetic Reed Switch
- Long life and reliable operation
- Non-oxidizing contacts allow low DC voltage signals for use with intrinsic safety devices
- Non-stick surface
- High buoyancy
- Pipe or suspension mounting
- 3 year factory warranty

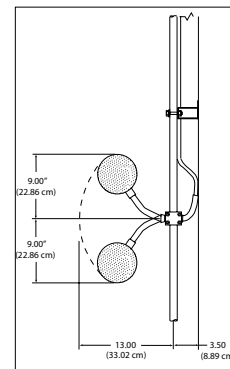
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9G-EF (Mercury Free) NOTP Float Switch	
Teflon coated 304 SS Float Switch w/1 N.O. Contact & 30' (9.144 m) Cable	W2T295692
Teflon coated 304 SS Float Switch w/1 N.O. Contact & 60' (18.288 m) Cable	W2T294202
9G-EF (Mercury Free) NCTP Float Switch	
Teflon coated 304 SS Float Switch w/1 N.C. Contact & 30' (9.144 m) Cable	W2T296235
Teflon coated 304 SS Float Switch w/1 N.C. Contact & 60' (18.288 m) Cable	W2T294168
Mounting Hardware & Accessories	
Universal Cable Clamp	W2T555480
Universal Pipe Clamp	W2T555481
304 SS cable suspension kit, 21' (6.4 m)	W3T4901
304 SS cable suspension kit, 31' (9.448 m)	W3T4902
304 SS cable suspension kit, 41' (12.496m)	W3T4903
304 SS cable suspension kit, 61' (18.592 m)	W3T4904
304 SS cable suspension kit, 81' (24.688 m)	W3T4905
304 SS cable suspension kit, 101' (30.784 m)	W3T4906
5 Float Suspension Mount, 2 piece bracket w/strain reliefs	W2T277359
9G CL3 1" (2.54 cm) stainless steel pipe mount clamps (transducer or float mount)	W3T4748
15# (6.8 kg) Anchor	W2T280921
Float Cable/Anchor kit 30' (w/15lb (6.8 kg) anchor, 30' (9.144 m) SS cable, wall bracket, 5 cable clamp)	W2T295021
Float Cable/Anchor kit 60' (w/15lb (6.8 kg) anchor, 60' (18.288 m) SS cable, wall bracket, 5 cable clamp)	W2T295022
IS6 Six Circuit Intrinsically Safe (Switch Circuit) Barrier: 12-24V DC powered	W2T294110
9G JCTF fiberglass junction box (supports up to XXXX floats)	W3T4742

Typical Mounting



Pipe Mounting Dimensions



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