

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 316 SS, measures 5.5" (14 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, 316 stainless steel housing measuring not less than 5 1/2" (14 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" (3.2 mm) 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 316 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.

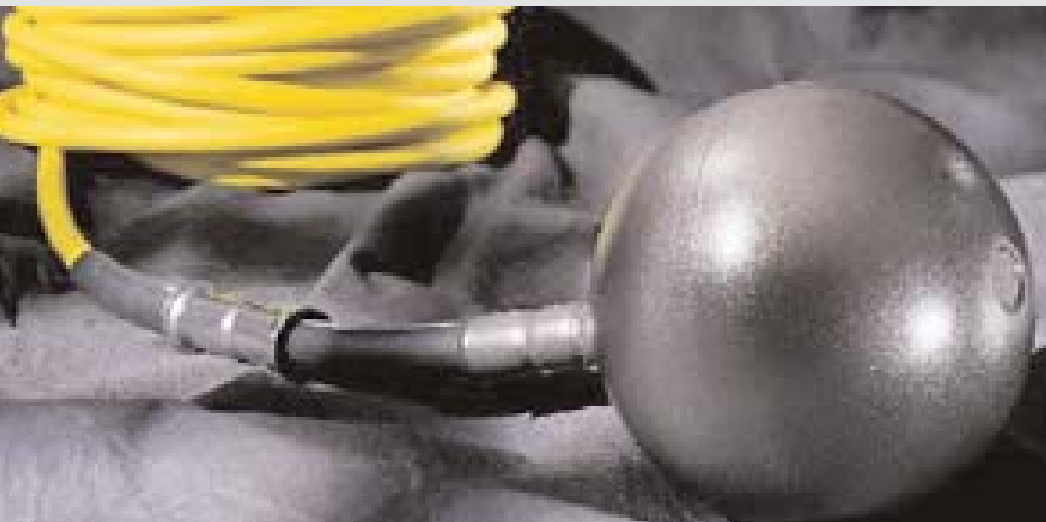
SIEMENS



9G EF Floats provide reliable performance in "unbelievable surroundings."

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 Siemens Water Technologies, Control Systems Products.

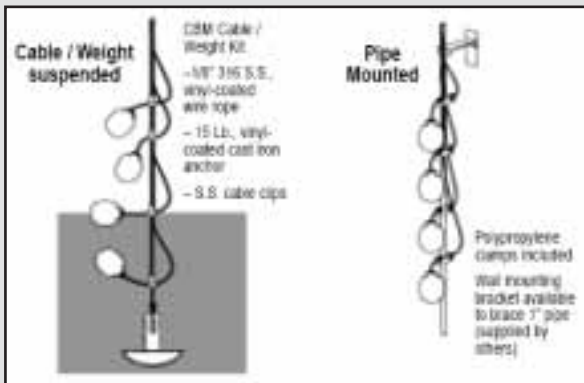


FEATURES

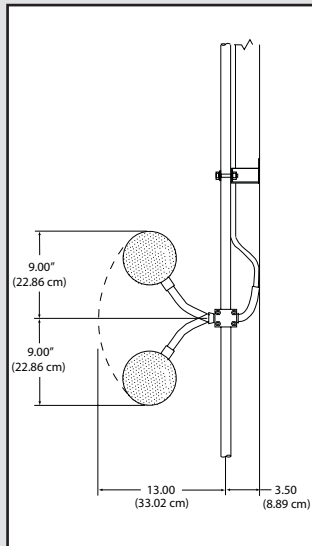
- Mercury Free – Magnetic Reed Switch
- Long life and reliable operation
- Non-oxidizing contacts allow low DC voltage signals for use with intrinsic safety devices
- Non-stick surface
- High buoyancy
- Pipe or suspension mounting
- 3 year factory warranty

DESCRIPTION	PART NO.
9G-EF (Mercury Free) NOTP Float Switch	
Teflon coated Stainless Steel Float Switch w/1 N.O. Contact & 30' (9.1m) Cable	6013520030
Teflon coated Stainless Steel Float Switch w/1 N.O. Contact & 60' (18.3 m) Cable	6013520060
9G-EF (Mercury Free) NCTP Float Switch	
Teflon coated Stainless Steel Float Switch w/1 N.C. Contact & 30' (9.1 m) Cable	6013530030
Teflon coated Stainless Steel Float Switch w/1 N.C. Contact & 60' (18.3 m) Cable	6013530060
Mounting Hardware & Accessories	
9G Float Cable Clamp Assembly	6012120001
9G Float 1" (2.54 cm) Pipe Clamp Assembly	6011840001
Stainless Steel cable suspension kit, 21' (6.4 m)	6014400020
Stainless Steel cable suspension kit, 31' (9.5 m)	6014400030
Stainless Steel cable suspension kit, 41' (12.5 m)	6014400040
Stainless Steel cable suspension kit, 61' (18.6 m)	6014400060
Stainless Steel cable suspension kit, 81' (24.7 m)	6014400080
Stainless Steel cable suspension kit, 101' (30.8 m)	6014400100
5 Float Suspension Mount, 2 piece bracket w/strain reliefs	8031340001
9G CL3 1" (2.54 cm) stainless steel pipe mount clamps (transducer or float mount)	6011340001
15# (6.8 kg) Anchor	xx-333-100
Float Cable/Anchor kit 30' (w/15lb (6.8 kg) anchor, 30' (9.1 m) SS cable, wall bracket, 5 cable clamp)	8032110003
Float Cable/Anchor kit 60' (w/15lb (6.8 kg) anchor, 60' (18.3 m) SS cable, wall bracket, 5 cable clamp)	8032110006
IS6 Six Circuit Intrinsically Safe (Switch Circuit) Barrier: 12-24V DC powered	6013160002
9G JCTF fiberglass junction box (supports up to XXXX floats)	6011020001

Typical Mounting



Pipe Mounting Dimensions



COMPLETE CONTROL CAPABILITIES

Siemens Water Technologies offers a single, high-quality source for everything from simple level sensors to telemetry systems involving complex system control engineering and software. Based in Vadnais Heights, Minnesota, Control Systems is part of the Siemens Water Technologies leading global provider of industrial, municipal and residential water and wastewater treatment systems, products and services. As a major manufacturer/integrator with an extensive selection of specialized product lines in the areas of SCADA and telemetry, power equipment integration, automation and measurement, Control Systems is uniquely positioned to provide cost effective, comprehensive solutions for water, wastewater and process control and telemetry applications.

The information provided in this literature contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of the contract.

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CS-9GEFdr-DS-0407

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