

SPECBOOK - BULLETIN B100, MODEL 9G DIRECT ACTING FLOAT SWITCH

The liquid level shall be sensed by direct acting float switches. The float switches shall be Siemens Water Technologies, Control Systems (fka Consolidated Electric) Bulletin B100, Model 9G.

The Contractor shall furnish, install, and wire the float switches as shown on the drawings. Float shall be a stainless steel float flexibly supported by a three-conductor neoprene jacketed cable and having a mercury switch inside. The float shall be constructed of Type 316 stainless steel and shall be 5-1/2" in diameter, with a stainless steel tube welded into its inside, projecting into the float and several inches out from it. The mercury switch shall be connected across two conductors of the neoprene-jacketed type SO, #14 AWG cable, potted in epoxy (to prevent moisture wicking down the cable and shorting out the switch). The switch shall be inserted, with the end of the cable and neoprene jacketing, into the stainless steel tube where it shall be held in place by dual circular crimp. The cord shall have fine strand conductors made especially for underwater and heavy flexing service and shall be furnished with an additional neoprene jacket from the float to the point where the cable is held in place by a stationary clamp tube. The stainless steel clamp tube shall be furnished with all stainless steel hardware including an adapting fitting and two yokes for mounting to a vertically supported one-inch pipe. The one-inch pipe shall be securely fastened to the wet well wall at its ends with corrosion resistant Model 9G-CL3, stainless steel pipe mounting brackets. The float shall be capable of tripping the mercury switch within one inch of the specified elevation. The cables for the float switches shall extend to the junction box at the top of the wet well riser and shall be _____ feet in length unless otherwise indicated. Any extra cable shall be put in a polyethylene bag, and sealed to be airtight.

Each float switch shall have minimum total net buoyancy of 2 pounds (total net buoyancy = weight of displaced volume of water less weight of float). The float switch level sensors shall have a three-year warranty.

BULLETIN B100 MOUNTING METHODS (Choose A or B below)

A. MODEL 9GCL3 STAINLESS STEEL MOUNTING CLAMP

The float switches shall be mounted to a 1" pipe utilizing all stainless steel float switch mounting hardware and secured in place by Siemens Water Technologies, Control Systems (fka Consolidated Electric) Model 9GCL3 stainless steel mounting clamps.

B. MODEL CBM SUSPENSION MOUNTING KIT

The direct acting float switch liquid level sensors shall be mounted to a common stainless steel cable/weight suspension mounting kit. The stainless steel cable shall be multi-stranded and have a minimum of 1/8" diameter. A plastisol-coated, 25-pound cast-iron weight with a cast-in-place stainless steel eyelet (for connection to the stainless steel cable with two stainless steel clamps) shall provide drift free mounting. The kit shall utilize stainless steel float switch cable clamp mounting hardware with two stainless steel screws per clamp to provide easy field adjustment of float switch operating elevations. The stainless steel cable shall have a loop with two cable clamps at the upper end of the assembly for mounting to an eyelet installed by the contractor in the top slab of the wet well. The kit shall be a Siemens Water Technologies, Control Systems (fka Consolidated Electric) Bulletin B100 Model CBM.