

Instruction Bulletin

Replaces 837AS dated 10/85

Class 9036 Type DG Float Switches for Tank and Sump Applications

INTRODUCTION

The Class 9036 Type DG float switch opens and closes an electric circuit by an upward or downward movement of the lever arm, controlling the liquid in a receiving tank or sump.

The contacts of a standard action float switch *close* on liquid rise. The contacts of a reverse action float switch *open* on liquid rise. The reverse action kit may be installed at the factory (Form R) or in the field (9049 A58).

SPECIFICATIONS

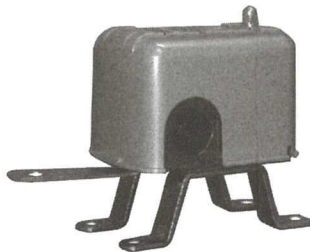


Table 1: Maximum Tolerances

Type	Max. Force To Trip		Max. Weight Supported	
	Up	Down	Std. Switch (no compensating spring)	Form C (w/ compensating spring)
DG-2	9 oz (255 g)	8 oz (227 g)	6 oz (170 g)	60 oz (1701 g)
DG-2 Form R	8 oz (227 g)	8 oz (227 g)	4 oz (113 g)	60 oz (1701 g)

Table 2: Electrical Ratings

Voltage	Horsepower			Control Circuit Rating
	Single Phase AC	Polyphase AC	DC	
115 VAC	2 hp	3 hp	1/2 hp	A600
230 VAC	3 hp	5 hp	1/2 hp	
460/575 VAC	—	1 hp	—	
32 VDC	—	—	1/4 hp	

Enclosure Rating: NEMA 1

Temperature Rating: -40 to +185 °F (-40 to +86 °C)

INSTALLATION & WIRING

Mount the float switch horizontally, using the mounting feet (if provided). Wire the float switch for your application (see Figure 1).

⚠ DANGER

HAZARDOUS VOLTAGE

- Disconnect all power before wiring or servicing float switch.
- Install and secure the cover before restoring power.

Electric shock will result in death or serious injury.

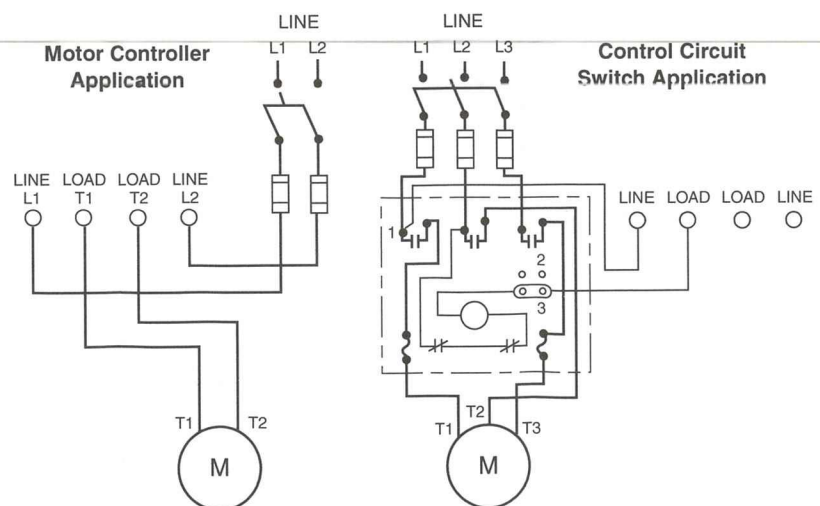


Figure 1: Wiring Diagrams



Motor Protection

This float switch does not provide motor protection, but it may be used as a pilot to operate an overload-protected starter. Contact your local Square D sales office for information on our complete line of motor starters.

COMPENSATING SPRING

A compensating spring may be installed at the factory (Form C) or in the field (9049 A19). If the weight of the rod and stops *plus* the force up to trip exceeds the buoyancy of the float, a compensating spring and a center hole float are required. For more information, refer to Instruction Bulletin L-4167A.

⚠ CAUTION

UNINTENDED EQUIPMENT OPERATION

- Do not use compensating springs on reverse action float switches.
- Float switches are factory calibrated. Do not adjust unless you are:
 - Installing a compensating spring, or
 - Changing the number of stops or tubing length.

Failure to follow these instructions can result in injury or equipment damage.

REPLACEMENT PARTS & ACCESSORIES

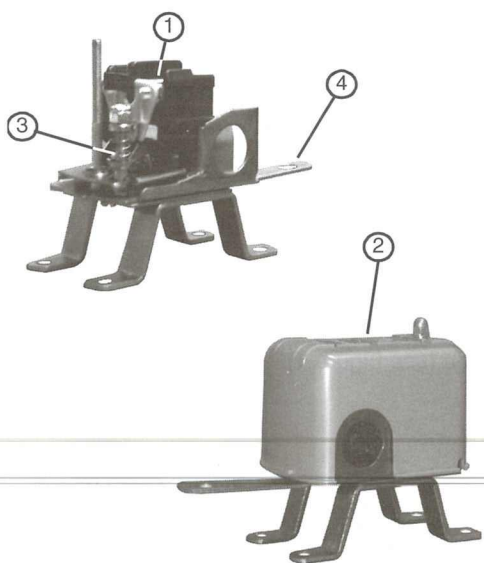


Figure 2: Replacement Parts

Table 3: Replacement Parts

Item	Description	Qty.	Part No.
1	Set of movable and stationary contacts	1	9998 PC-242
2	Replacement cover (specify complete Class & Type)	1	65079-701-52
3	Compensating spring kit (to add Form C in the field)	1	9049 A19
4	Float lever arm	1	1548-X2
—	Reverse action float lever arm (to add Form R in the field)	1	9049 A58

Give complete nameplate data (Class, Type, Form) when ordering replacement parts.

Table 4: Float Kits

Float Type	Material	Tubing	Stops	Part No.	Qty.	Used On
Tapped at top	304 stainless steel	Brass	2	9049 A6	1	9036 DG-2, 9036 DG-2R
		Aluminum		9049 A6A	1	
	316 stainless steel	Stainless steel		9049 A6S	1	
Center hole	304 stainless steel	Brass	4	9049 A6C	1	9036 DG-2C, 9036 DG-2CR
		Aluminum		9049 A6CA	1	
	316 stainless steel	Stainless steel		9049 A6CS	1	


Floats are 7 inches long and come with 5 feet of tubing.

Table 5: Tubing Kits

Material	Qty.	Part No.	Used On
Brass	As needed	9049 T1	All 9036
Aluminum	As needed	9049 T1A	All 9036
Stainless steel	As needed	9049 T1S	All 9036

Kits contain 2-1/2 feet of tubing plus a connector.

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