

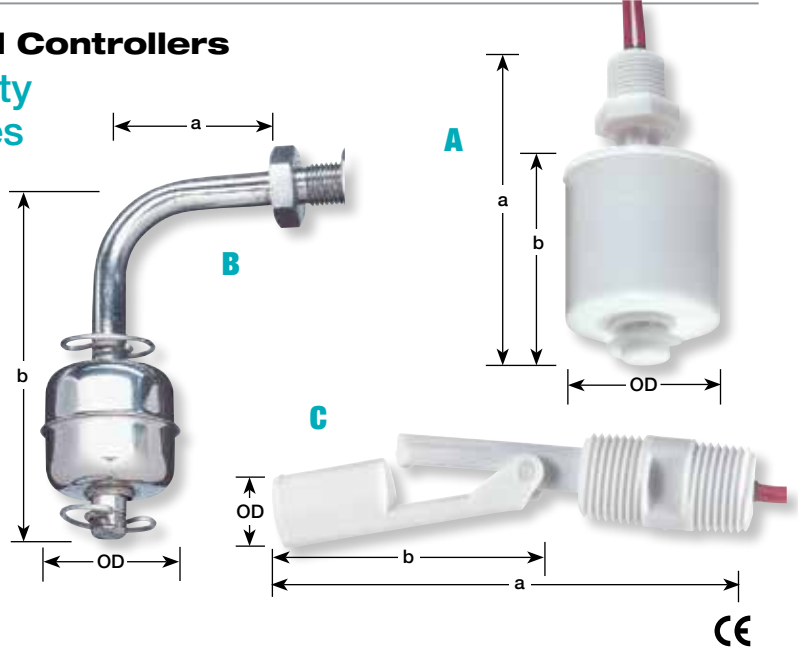
## Liquid Level Float Switches and Controllers

Get longer life and more durability with hermetically sealed switches

- Unique features for your unique needs: explosion proof (XPRF) for hazardous locations, slosh shields for turbulent systems, and bulkhead fittings for tank wall mounting

All models accept 120/240 VAC and operate as NO or NC switches except where noted. Switches include 24" leads (except 07187-12 which has 72" leads). If your level control system exceeds the current rating in the table, use a controller with your switch (sold below).

- A. Standard Switches** are installed from the top of your tank—attach your own conduit to protect wiring.
- B. Bent Stem Switch** features a 90° stem for side mounting where space is at a premium.
- C. Hinged Float Switches** operate by a hinged magnet that swings closed and trips a reed switch. Install at any height in tank.



Wetted materials		Description	Approvals	Max amp rating (resistive load)		Operating temperature	Max psi	Min SG	Dimensions			Mounting	Catalog number	Price
Stem/float	Other			120 VAC	24 VDC				OD	a	b			
<b>A. Standard switches</b>														
PP/PP (hollow)	—	NO†	NSF, UL‡, CSA, CE	0.17 A	0.3 A	-40 to 225°F (-40 to 107°C)	50	0.6	1"	2 <sup>3</sup> / <sub>32</sub> "	1 <sup>9</sup> / <sub>16</sub> "	3/8"-16 1/8" NPT	GY-07187-02	
PP/PP (solid)	—	NO†	UL‡, CSA, CE	0.17 A	0.3 A	-40 to 150°F (-40 to 66°C)	150	0.9	1"	2 <sup>3</sup> / <sub>32</sub> "	1 <sup>9</sup> / <sub>16</sub> "	3/8"-16 1/8" NPT	GY-07187-06	
	PP slosh shield	NO†, with slosh shield							1 <sup>1</sup> / <sub>4</sub> "	2 <sup>3</sup> / <sub>32</sub> "	1 <sup>9</sup> / <sub>16</sub> "	1/8" NPT	GY-07187-10	
304 SS/ Buna N	PC, beryllium copper, copper nickel	NO†, with slosh shield and 6-ft, 18/2 neoprene cable (waterproof)	UL‡	0.17 A	0.3 A	-40 to 140°F (-40 to 60°C)	150	0.55	2 <sup>19</sup> / <sub>32</sub> "	3 <sup>3</sup> / <sub>16</sub> "	2 <sup>9</sup> / <sub>16</sub> "	(2) 9/32" dia holes	GY-07187-12	
CPVC/ CPVC	—	NO†	CE	0.17 A	0.3 A	-40 to 180°F (-40 to 82°C)	15	0.85	1 <sup>1</sup> / <sub>2</sub> "	3 <sup>7</sup> / <sub>16</sub> "	2 <sup>25</sup> / <sub>32</sub> "	1/4" NPT	GY-07188-40	
PVDF/ PVDF	—	NO†	NSF, FDA	0.17 A	0.3 A	-40 to 250°F (-40 to 121°C)	50	0.86	1"	2 <sup>3</sup> / <sub>32</sub> "	1 <sup>9</sup> / <sub>32</sub> "	1/8" NPT	GY-07187-14	
Brass/ Buna N	316 SS, epoxy	NO†	UL‡, CSA, CE	0.17 A	0.3 A	Water: to 180°F (82°C) Oil: -40 to 230°F (-40 to 110°C)	150	0.45	1"	2 <sup>1</sup> / <sub>16</sub> "	1 <sup>1</sup> / <sub>2</sub> "	1/8" NPT	GY-07187-16	
316 SS/ Buna N	316 SS, epoxy								1"	2 <sup>1</sup> / <sub>16</sub> "	1 <sup>1</sup> / <sub>2</sub> "	1/8" NPT	GY-07187-18	
316 SS/ 316 SS	—	NO†, XPRF‡	UL‡, cUL‡, CSA, CE, NSF	0.50 A	0.50 A	-38 to 392°F (-39 to 200°C)	200	0.55	2 <sup>1</sup> / <sub>8</sub> "	3 <sup>3</sup> / <sub>8</sub> "	2 <sup>5</sup> / <sub>8</sub> "	1/4" NPT	GY-07188-35	
316 SS/ 316 SS	316 SS	NO†	UL‡, CSA, CE	0.17 A	0.3 A	-40 to 480°F (-40 to 249°C)	100	0.7	1 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>16</sub> "	1 <sup>1</sup> / <sub>2</sub> "	1/8" NPT	GY-07187-20	
<b>B. Bent stem switch</b>														
316 SS/ 316 SS	—	NO	UL‡	0.17 A	0.3 A	-40 to 300°F (-40 to 149°C)	100	0.7	1 <sup>1</sup> / <sub>2</sub> "	1 <sup>3</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>4</sub> "	3/8"-24	GY-07187-22	
<b>C. Hinged float switches</b>														
PP/PP	—	NO†, external mount, conduit	UL‡, CSA, CE	0.17 A	0.3 A	-40 to 225°F (-40 to 107°C)	100	0.55	1/2"	4 <sup>3</sup> / <sub>8</sub> "	2 <sup>7</sup> / <sub>8</sub> "	1/2" x 1/2" NPT	GY-07187-24	
		NO†, internal mount, bulkhead							1/2"	3 <sup>19</sup> / <sub>32</sub> "	2 <sup>3</sup> / <sub>4</sub> "	5/8"-11	GY-07187-26	
		NO†, external mount							1 <sup>1</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>4</sub> "	2 <sup>7</sup> / <sub>8</sub> "	1/2" NPT	GY-07187-28	
PVDF/ PVDF	—	NO†, external mount, conduit	UL‡, cUL‡, CSA, CE, NSF	0.28 A	0.28 A	-9 to 212°F (-23 to 100°C)	100	0.75	1/2"	4 <sup>1</sup> / <sub>4</sub> "	2 <sup>1</sup> / <sub>16</sub> "	1/2" x 1/2" NPT	GY-07188-70	
Nylon/ Nylon	—	NO†, external mount	UL‡, CSA, CE	0.17 A	0.30 A	-40 to 250°F (-40 to 121°C)	100	0.65	1 <sup>1</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>4</sub> "	2 <sup>7</sup> / <sub>8</sub> "	1/2" NPT	GY-07187-30	
316 SS/ 316 SS	—	NO†, XPRF††, external mount, conduit	UL‡, cUL‡, CSA, CE, NSF	0.28 A	0.28 A	-38 to 392°F (-39 to 200°C)	300	0.6	5/8"	6 <sup>1</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>2</sub> "	1/2" x 1/4" NPT	GY-07188-45	

†Normally open; change to normally closed (NC) by reversing the float (hinged floats rotate 180°). ‡UL recognized ††Class I, Groups A, B, C, D; Class II, Groups E, F, G; Class III.

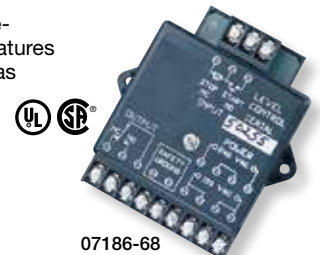
### Controllers (required for applications exceeding the max amp rating in above table)

**General-Purpose Controllers** operate as a NO, SPST relay. Controllers withstand temperatures from 32 to 138°F (0 to 59°C).

- [GY-07188-50](#) Single-point controller; 24 to 260 VAC, 5 A load
- [GY-07188-52](#) Dual-point fill controller; 100 to 130 VAC, 5 A load
- [GY-07188-54](#) Dual-point fill controller; 200 to 250 VAC, 5 A load

**Heavy-Duty Controller** is used for single- or dual-point control. Withstands temperatures from 64 to 149°F (18 to 65°C). Operates as either a NO or NC, SPDT relay.

- [GY-07186-68](#) Heavy-duty controller; 120/240 VAC, 10 A load



07186-68