

# LevelWorks® Liquid Level Solutions



## Tilt Float Switches

### Mercury Switch Rating

- JA - 1A @ 120 VAC: Narrow Angle 10°
- JB - 1A @ 120VAC Wide Angle 90°
- JC - 13A @ 120 VAC: Narrow Angle 10°
- JD - 13A @ 120 VAC: Narrow Angle 30°
- JE - 13A @ 120 VAC Wide Angle 90°

### Mechanical Switch Rating

- JG - 1/2HP: Wide Angle 90°
- JH - 1 HP & 2 HP: Wide Angle 90°
- JK - 10 A: Narrow Angle 25° *Tetherless\**
- JL - 25A: Wide Angle 90°
- JN - 10A: Narrow Angle 25°
- JP - 1/2 HP: Narrow Angle 25°
- JR - 1/2 HP: Narrow Angle 25° *Tetherless\**
- JS - 5A: Wide Angle 90°
- JX - 5A: Narrow Angle 15°

\*Tetherless is a Float with internal Weight

### Float Colors

Normally Open	Normally Closed	Switch Series
<b>S</b> - Small <b>Black</b> (Mercury) ABS	<b>S</b> - Small <b>Black</b> (Mercury) ABS	<b>A and B Series</b>
<b>M</b> - <b>Black</b> (Mercury) HIPS	<b>B=Yellow</b> (Mercury) HIPS	<b>C, D and E Series</b>
<b>F</b> - Small <b>Black</b> (Mechanical) ABS	<b>F</b> - Small <b>Black</b> (Mechanical)ABS	<b>S &amp; X Series</b>
<b>F</b> - <b>Black Single Pole Double Throw</b> (Mechanical) ABS		
<b>F</b> - <b>Black</b> (Mechanical) HIPS & ABS	<b>Y=Yellow</b> (Mechanical) ABS <b>W</b> - White (Mechanical) ABS	<b>G, H, K, L, P &amp; R Series</b>
<b>G=Green Single Pole Double Throw</b> (Mechanical) ABS		<b>G, H, K, P or R Series</b>
High Temperature - 180°F <b>R=Red</b> (Mechanical) ABS	High Temperature - 180°F <b>B=Blue</b> (Mechanical) ABS	<b>G, H, K, L, P &amp; R Series</b>
High Temperature - 221°F <b>T=Teal</b> (Mechanical) ABS/Poly	High Temperature - 221°F <b>T=Teal</b> (Mechanical) ABS/Poly	<b>G, P &amp; R Series</b>



## JGF10W1000-W



### Float Material

- 1 - High Impact Polystyrene (HIPS)
- 2 - High Temp - ABS 180° F
- 3 - High Temp - ABS/Polycarbonate 221° F

### Contact Configuration

- O - SPST - Normally Open
- C - SPST - Normally Closed
- D - SPDT - Single Pole Double Throw

### Cable Type and Material

- Y - 18 Gauge - CPE (chlorinated polyethylene) Jacketed for (SJOW)
- W - 16 Gauge - CPE (chlorinated polyethylene) Jacketed for (SJOW)
- U - 14 Gauge - CPE (chlorinated polyethylene) Jacketed for (SJOW)
- T - 16 Gauge - Teflon Jacketed for High Temperature
- P - 12 Gauge - CPE (chlorinated polyethylene) Jacketed for (SJOW)
- N - 16 Gauge - CPE (chlorinated polyethylene) Jacketed for (SJOOW)
- L - 16 Gauge - CPE (chlorinated polyethylene) Jacketed for (SOOW)

### Tethering Method

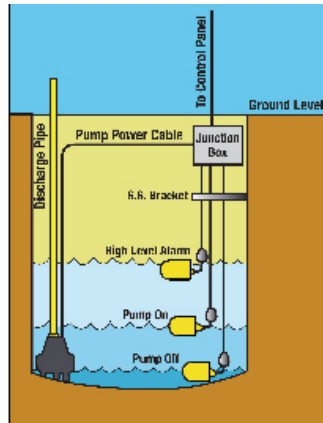
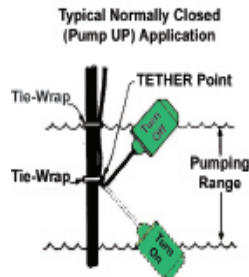
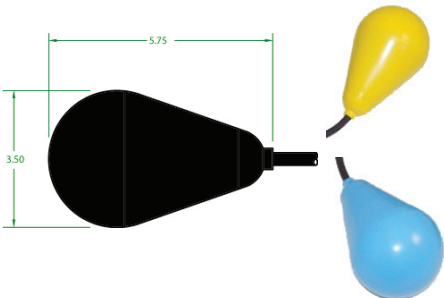
- O - No Tethering
- T - Float supplied with Wire Tie
- TC - Float supplied with Tether Clamp
- P - Float supplied with PVC Weight
- W - Float supplied with Cast Iron Weight

### Cable Termination

- 00 - UL Recognized no Label, Standard Skive
- 0F - UL Recognized w/Label, Standard Skive

### Cable Length in Feet

0 to 99' of cable. 20' & 40' are Briggs Stock



### Applications

- Alarms: High, Low Level
- Drainage Sumps
- Level Control
- Sewage Lift Stations
- WasteWater Treatment

### Features

- Color Coded Body
- Epoxy Sealed Cable
- Impact and Corrosion Resistant
- NO, NC or SPDT Switch
- Oil Resistant Cable

**C. A. BRIGGS COMPANY**



622 Mary Street, Suite 101 - Warminster, PA 18974

**THE LEVELWORKS® PEOPLE**

### Your ORDERING LINES

Phones:  
267-673-8117  
800-352-6265

### FAX:

267-673-8118

On-Line Store:

[www.TheLevelWorksStore.com](http://www.TheLevelWorksStore.com)

### E-Mail

[sales@cabriggs.com](mailto:sales@cabriggs.com)

# LevelWorks® Liquid Level Solutions

## Intrinsically Safe Duplex - TriPlex and Quadraplex Pump Controllers



**MPE, Inc.**  
Duplex Pump  
Controller w/ High  
Level Alarm

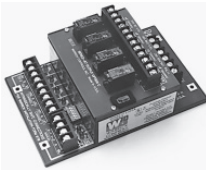
- Intrinsically Safe Float Switch Inputs - UL FILE #E189808
- Float Out of Sequence Indication
- Pump Called to Run Indication
- System Test Push-Button
- 4 Second Lag Pump Delay
- Phoenix Style Connectors
- Duplex Alternation
- Level Indication
- 120VAC Input Power
- Transient Protected 10 Amp
- Pump Call Relay Outputs
- 10 Amp High Level Alarm Relay
- Lead Select Toggle Switch HOA Toggle Switches



### Model #ISD-X

X = P (Panel Mtg), S (Surface Mtg), D (Din Mtg)

Download Data Sheet: [www.cabriggs.com/PDF-MPE/DuplexControl-IS.pdf](http://www.cabriggs.com/PDF-MPE/DuplexControl-IS.pdf)



**Warrick Controls**  
Duplex Pump  
Controller w/ High  
and Low Alarm

- Intrinsically Safe Float Switch or Conductivity Inputs - U.L. 913 File # 7112 Vol. 1, Sec. 4
- Selectable Inverse or Direct Acting
- Field Adjustable Mode Selection Simplex or Duplex
- Built-in Silence/Acknowledge Circuit
- Level LED Indication
- 120VAC Input Power
- 4 each - 10 amp (style C); 5 amp (style A) Output Relays
- Additional 10 Amp High Level Alarm Relay
- Auto or Manual Alternation
- HOA Operation



### Model #67C1A0A

5Amp (N.O., N.C. isolated) for each channel

### Model #67C1C0A

10 Amp (N.O., N.C., Common) for each channel

Download Data Sheet: [www.cabriggs.com/Pdf-Downloads/Warrick-D17-67.pdf](http://www.cabriggs.com/Pdf-Downloads/Warrick-D17-67.pdf)



**SymCom, Inc.**  
Quadraplex Pump  
Controller or Triplex  
w/ High Level Alarm

- Five intrinsically safe input channels meeting UL 913
- Four normally open output relays & one SPDT output relay
- Field selectable pump control options: Duplex, Triplex, Quadraplex
- High and/or low alarm options depending on number of pumps
- DIN rail or surface mount
- Out-of-sequence alarm
- 120VAC Input Power
- 5 each - 7amp Output Relays
- Out-of-sequence alarm
- Auto or Manual Alternation
- Delay on make timer for all lag pumps in all pump control modes
- LED Indicators



### Model #ISS-105

Download Data Sheet: [www.cabriggs.com/PDF-SynCom/ISS-105\\_Spec1.pdf](http://www.cabriggs.com/PDF-SynCom/ISS-105_Spec1.pdf)

## Non Intrinsically Safe



## MPE, Inc. Plug-in Duplex - TriPlex and Quadraplex Alternators



**MPE**  
model 010-120-122P  
Duplex Alternator

The DUPLEXER controller will control and alternate any duplex system while providing the user with a visual indication of its input/output status. Time delayed outputs, internal latching, internal alternator and fail safe operation insure reliable operation even in the event of external signal device failures. Alternation will always occur when the lowest input device is de-activated. A high level alarm output is provided to activate a visual or audible alarm device.

- Float Switch Inputs
- Input & Output Indicators
- Plug In Base
- Push-To-Test Switch
- Power On Indicator
- Input & Output Indicators
- Plug In Base
- Lead/Lag Selector Switch

Download Data Sheet: [www.cabriggs.com/PDF-MPE/DuplexControl.pdf](http://www.cabriggs.com/PDF-MPE/DuplexControl.pdf)



**MPE**  
model 009-120-34  
Triplex Alternator

A 3 input, 2 or 3 output, solid state alternator that equalizes output load time. The cycling of its inputs controls the sequence of its outputs. For each input cycle, the Triplexor outputs alternate in a 1-2-3, 2-3-1 and 3-1-2 sequence. A load select switch permits the Triplexor to be used as a duplex alternator until system expansion requires Triplex operation.

- Float Switch Inputs
- Internal Latching
- Plug In Base
- Recognizes Out of Sequence
- Power On Indicator
- 120VAC Input
- Relay Outputs
- Load Select Switch
- Output Indicators

Download Data Sheet: [www.cabriggs.com/PDF-MPE/009-TriQuadAlter.pdf](http://www.cabriggs.com/PDF-MPE/009-TriQuadAlter.pdf)



**MPE**  
model 009-120-34  
Quadraplex Alternator

A 4 input, 3 or 4 output, solid state alternator that equalizes output load time. The cycling of its inputs controls the sequence of its outputs. For each input cycle the Quadraplexor outputs alternate in a 1-2-3-4, 2-3-4-1, 3-4-1-2 and 4-1-2-3 sequence. A load select switch permits the Quadraplexor to be used as a triplex alternator until system expansion requires Quadraplex operation.

- Float Switch Inputs
- Internal Latching
- Plug In Base
- Recognizes Out of Sequence
- Power On Indicator
- 120VAC Input
- Relay Outputs
- Load Select Switch
- Output Indicators

Download Data Sheet: [www.cabriggs.com/PDF-MPE/009-TriQuadAlter.pdf](http://www.cabriggs.com/PDF-MPE/009-TriQuadAlter.pdf)

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