



PUMP / CONTROL PANEL SWITCHES

TERMS TO KNOW

Pump Switches are used to directly control the operation of a pump. They are normally wide-angle switches which means they operate over a range of approximately 70° to 90°. Pump switches are available with piggyback plugs and with bare leads. Some can also be used with control panels.

Control Switches are designed to only control pumps when used with a control or alarm panel. They cannot handle the high starting amps and running amperage of a pump, only signal or control amperage.

NO or Normally Open is a switch with contacts that are open in the hanging position. They are used to pump down or empty a tank.

NC or Normally Closed is a switch with contacts that are closed in the hanging position. They are used to pump up or fill a tank.

A2T SERIES

SJE Double Float® Master Pump Switch

Features

- Mechanically activated, wide-angle switch designed to control pumps up to 15 FLA, 90 LRA, 120 VAC or 240 VAC.
- This switch consists of two mechanical floats and a splice tube. The splice tube contains a holding relay which eliminates pump chatter in turbulent conditions.
- Includes standard mounting clamps and boxed packaging.
- Cable attached to float housing: flexible 18 gauge, 2 conductor (UL, CSA) SJOW, water-resistant (CPE).
- Cable above splice: flexible 14 gauge, 3 conductor (UL, CSA) SJTW, water-resistant, thermoplastic.
- Floats: 2.74" diameter x 4.83" long (7.0 x 12.3 cm) high impact, corrosion resistant, PP housing for use in sewage and non-potable water up to 140° F (60° C).
- Not sensitive to rotation or turbulence.
- Pumping range: 3" to 48"
- Available for pump up or pump down applications.
- For confined applications requiring an accurate pumping range.
- CSA Certified
- See chart for data and order numbers.



A2X SERIES

MilliAmpMaster™ Mechanical Float Switch

Features

- Mechanically activated, snap-action, sealed gold cross-point contacts are designed to activate low current control panels and alarms.
- Narrow angle Control for Low Voltage AC or DC applications.
- Electrical Load - low current non-arcing applications
 - 125 VAC - Max. Load .1 amps (Min. Load .16 milliamps)
 - 30 VDC - Max. Load .1 amps (Min. Load .16 milliamps)
 - 5 VDC - Minimum Load 1 milliamp
- UL Listed for use in non-potable water and sewage.
- CSA Certified
- Mounting clamp for attaching to discharge pipe is standard.
- Not sensitive to rotation.
- Maximum submergence or water depth, 30' (9 meters), 13 psi.
- Flexible 18 gauge, 2 conductor SJOW water resistant cable.
- Impact and corrosion resistant, polypropylene float housing for use in sewage and water up to 140 ° F.
- Float comes with blue cap for easy identification.



A2D SERIES

SJE PumpMaster® Pump Switch

Features

- Mechanically activated, heavy duty contacts, wide angle operation.
- Controls pumps up to 1/2 HP at 120 VAC and 1 HP at 230 VAC.
- Non-corrosive PVC housing for use in liquids up to 140° F (60° C).
- Not sensitive to rotation or turbulence.
- Pumping range: 7" to 36".
- 16 AWG, SJOW cord is available with or without piggyback plug.
- Available as pump up, pump down and SPDT models, see Nomenclature Chart.
- For non-potable water, water or sewage applications.
- UL Recognized for use in water and sewage.
- CSA Certified.
- See chart for amperage range and other data.



A2E SERIES

SJE PumpMaster Plus® Pump Switch

Features

- Controls pumps up to ¾ HP at 120 VAC and 2 HP at 230 VAC.
- 14 AWG, SJOW cord is available with or without piggyback plug.
- **All other features are the same as A2D PumpMaster Series above.**

A2HT SERIES

High Temperature Float Switch

Features

- Temperature Rating: 221° F (105° C)
- Wide Angle Switch: contacts open @ 45° below horizontal and close at 45° above horizontal
- Float Material: PC/ABS (Polycarbonate ABS)
- Cord Material: Teflon coating
- Ratings: 13 Maximum Amps, ½ HP, 115/230 V
- Float Dimensions: 4.63" Long x 2.63" Diameter
- Nomenclature: see page 9
- Available lengths: 20', 30' and 50' *



NOTE: A2HTL High Temperature Rating: 185° F

* No other lengths available in this Series.

A2G SERIES

SJE AmpMaster® Pump Switch

Features

- Mechanically activated, heavy duty contacts, wide angle operation.
- Controls pumps up to 1½ HP at 115 VAC and 3 HP at 250 VAC.
- Non-corrosive PVC housing for use in liquids up to 140° F (60° C).
- Maximum pump running current of 20 amps.
- Not sensitive to rotation or turbulence.
- Pumping range: 9" to 24".
- 12 AWG, SJOW cord is available only with bare leads.
- Available for pump down applications only.
- UL Recognized for use in non-potable water and sewage.
- CSA Certified
- See chart for amperage range and other data.



A2R SERIES

SJE MicroMaster®

Features

- Mechanically activated, snap action contacts, wide angle.
- Pump down operation (optional pump up available)
- UL Recognized for use in non-potable water and sewage.
- CSA Certified
- See chart for amperage range and other data.
- Controls pump up to 70 amps at 115 VAC and 10 amps at 230 VAC
- 16 AWG, SJOW cord on 230 V; 18 AWG, SJOW cord on 115 V
- Pumping range: 8" to 36"
- Not sensitive to rotation or turbulence

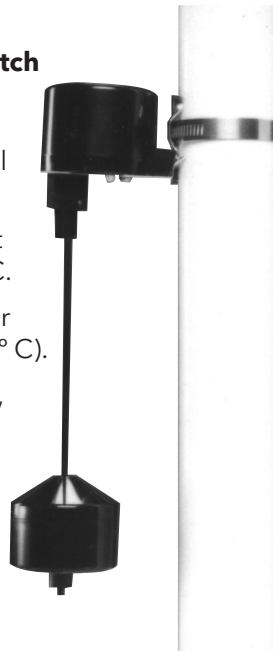


A2H SERIES

SJE VerticalMaster® Pump Switch

Features

- Mechanically activated vertical operation.
- Controls pumps up to ½ HP at 120 VAC and 1 HP at 230 VAC.
- Non-corrosive PVC housing for use in liquids up to 125° F (52° C).
- Overall Dimensions: 12" High, 5" Deep, 3" Wide.
- Not sensitive to rotation.
- Pumping range: .75" to 6.5".
- 16 AWG, SJOW cord is available with or without piggyback plug.
- Available for pump down applications only.
- For confined applications requiring an accurate pumping range.
- Stainless steel mounting bracket and hose clamp.
- UL Recognized for use in non-potable water and sewage.
- CSA Certified
- See chart for amperage range and other data.



A2N SERIES

SJE SignalMaster® Control Switch

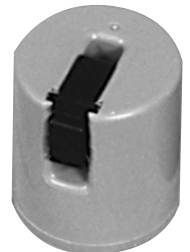
Features

- Mechanically activated, narrow angle, designed to activate pump control panels or alarms.
- Not designed for direct connection to pump.
- Non-corrosive PVC housing for use in liquids up to 140° F (60° C).
- Not sensitive to rotation.
- Control differential: 1.5" above or below horizontal.
- Available as NO (pump down), NC (pump up) or SPDT model, see Nomenclature page.
- For non-potable water, water or sewage applications.
- Supplied with a pipe clamp for mounting to pipe.
- UL Listed for use in non-potable water and sewage.
- CSA Certified.
- See chart for amperage range and other data.
- Normally open - comes with yellow cap for easy identification.
- Normally closed - comes with white cap for easy identification.
- Single pole double throw - comes with green cap for easy identification.



A2WT SJ ELECTRO WEIGHT

- Adjustable snap in design.
- Works with all float switches shown.
- PVC



A2WTC CONERY WEIGHT

- Zinc plated cord weight
- Works with all float switches



PUMP SWITCHES (WIDE ANGLE) can be connected directly to a pump

CONTROL SWITCHES (NARROW ANGLE) can only be used with control panels or alarm panels

| Order Number | Maximum Running Amps | Maximum Starting Amps | Cord Length (Feet) | Bare Leads | Pump Switch | Control Switch | (1) | (2) | Mounting | | |
|--------------|----------------------|-----------------------|--------------------|------------|-------------|----------------|------|------|----------|--------|---|
| | | | | | | | N.O. | N.C. | Strap | Weight | |
| A2D13 | 13 | 85 | 10 | X | X | - | X | | X | | |
| A2D14 | | | | X | X | - | X | | X | | |
| A2D23U | | | 15 | X | X | - | | X | X | | |
| A2D23W | | | | X | X | - | X | | X | X | |
| A2D33 | | | 20 | X | X | - | X | | X | | |
| A2D33U | | | | X | X | - | | X | X | | |
| A2D33W | | | | X | X | - | X | | X | X | |
| A2D53W | | | | 30 | X | X | - | X | | X | X |
| A2D63W | | | 50 | X | X | - | X | | X | X | |
| A2D83W | | | 100 | X | X | - | X | | X | X | |
| A2E03 | 15 | 85 | 4 | X | X | - | X | | | X | |
| A2E23 | | | 15 | X | X | - | X | | X | | |
| A2E23U | | | | X | X | - | | X | X | | |
| A2E33 | | | 20 | X | X | - | X | | X | | |
| A2E53 | | | 30 | X | X | - | X | | X | | |
| A2E53U | | | | X | X | - | | X | X | | |
| A2E63 | | | 50 | X | X | - | X | | X | | |
| A2E63U | | | | X | X | - | | X | X | | |
| A2E73 | | | 75 | X | X | - | X | | X | | |
| A2E83 | | | 100 | X | X | - | X | | X | | |
| A2E83U | X | X | | - | | X | X | | | | |
| A2G23 | 20 | 120 | 15 | X | X | - | X | | X | | |
| A2G33 | | | 20 | X | X | - | X | | X | | |
| A2G43 | | | 25 | X | X | - | X | | X | | |
| A2G53 | | | 30 | X | X | - | X | | X | | |
| A2G63 | | | 50 | X | X | - | X | | X | | |
| A2H33 | 12 | 60 | 20 | X | X | - | X | | X | | |
| A2HTL13 | 13 | 58 | 10 | X | | | X | | | | |
| A2HTL33 | | | 20 | X | X | X | X | | X | | |
| A2HTL53 | | | 30 | X | X | X | X | | X | | |
| A2HT13 | | | 10 | X | X | X | X | | X | | |
| A2HT33 | | | 20 | X | X | X | X | | X | | |
| A2HT53 | | | 30 | X | X | X | X | | X | | |
| A2HT63 | | | 50 | X | X | X | X | | X | | |
| A2N03 | 5 | N/A | 3 | X | - | X | X | | X | | |
| A2N13 | | | 10 | X | - | X | X | | X | | |
| A2N23 | | | 15 | X | - | X | X | | X | | |
| A2N23W | | | | X | - | X | X | | X | | |
| A2N23WB | | | | X | - | X | X | | | X | |
| A2N23WU | | | | X | - | X | X | | X | X | |
| A2N33 | | | 20 | X | - | X | X | | X | | |
| A2N33U | | | | X | - | X | X | | X | | |
| A2N33W | | | | X | - | X | X | | | X | |
| A2N33WB | | | | X | - | X | X | | | X | |
| A2N33WU | | | X | - | X | X | | X | X | | |
| A2N43W | | | 25 | X | - | X | X | | X | | |
| A2N43WU | | | | X | - | X | X | | X | X | |
| A2N53 | | | | 30 | X | - | X | X | | X | |
| A2N53W | | | | | X | - | X | X | | | X |
| A2N53WU | | | X | | - | X | X | | X | X | |
| A2N63 | | | 50 | X | - | X | X | | X | | |
| A2N63W | | | | X | - | X | X | | | X | |
| A2N73 | | | 75 | X | - | X | X | | X | | |
| A2N73W | | | | X | - | X | X | | | X | |
| A2N83 | 100 | X | - | X | X | | X | | | | |
| A2N83U | | X | - | X | X | | X | X | | | |
| A2N93 | 125 | X | - | X | X | | X | | | | |
| A2T33 | 15 | 90 | 20 | X | - | X | X | | X | | |
| A2X03 | See Description | N/A | 7 | X | - | X | X | | X | | |
| A2X13 | | | 10 | X | - | X | X | | X | | |
| A2X13U | | | | X | - | X | | X | X | | |
| A2X23 | | | 15 | X | - | X | X | | X | | |
| A2X23U | | | | X | - | X | | X | X | | |
| A2X33 | | | 20 | X | - | X | X | | X | | |
| A2X33U | | | | X | - | X | | X | X | | |
| A2X33W | | | | X | - | X | X | | | X | |
| A2X53 | | | 30 | X | - | X | X | | X | | |
| A2X53U | | | | X | - | X | | X | X | | |
| A2X63W | | | | X | - | X | X | | | X | |

N.O. (1) = PUMP DOWN

N.C. (2) = PUMP UP

WIDE ANGLE 115 VOLT PIGGYBACK FLOAT SWITCHES TO DIRECTLY CONTROL PUMPS

| Order Number | Maximum Amps | Start Amps | 115 V Plug | Cord Length (Feet) | (1) | (2) | Mounting Strap | | |
|--------------|--------------|------------|------------|--------------------|------|------|----------------|---|---|
| | | | | | N.O. | N.C. | | | |
| A2D11 | 13 | 85 | X | 10 | X | | X | | |
| A2D11B | | | X | | X | | | | |
| A2D11C | | | X | | X | X | | | |
| A2D31 | | | | | X | 20 | X | | X |
| A2D31B | | | | | X | | X | | |
| A2D31C | | | | | X | | X | | X |
| A2D31U | | | | | X | | | X | X |
| A2D51 | | | | | X | 30 | X | | X |
| A2D51C | | | | | X | | X | | X |
| A2D61 | | | | | X | 50 | X | | X |
| A2E21 | | | 15 | | X | 15 | X | | X |
| A2E31 | X | 20 | | | X | | X | | |
| A2E31C | X | | | | X | | X | | |
| A2E31U | X | | | | | X | X | | |
| A2E51 | X | 30 | | | X | | X | | |
| A2E61 | X | 50 | | | X | | X | | |
| A2H11 | 13 | 60 | X | 10 | X | | X | | |
| A2H11B | | | X | | X | | | | |
| A2H11C | | | X | | X | X | | X | |
| A2H21 | | | | | X | 15 | X | | X |
| A2H31 | | | | | X | 20 | X | | X |
| A2HTL11 | | | | | X | 10 | X | | X |
| A2HTL31 | | | | | X | 20 | X | | X |
| A2HTL51 | | | | | X | 30 | X | | X |
| A2HT11 | | | | | X | 10 | X | | X |
| A2HT31 | | | | | X | 20 | X | | X |
| A2HT51 | | | | | X | 30 | X | | X |
| A2J11 | | | 10 | 60 | X | 10 | X | | X |
| A2J21 | | | | | X | 15 | X | | X |
| A2J31 | X | 20 | | | X | | X | | |
| A2R11 | | | | | X | 10 | X | | X |
| A2R11B | | | | | X | | X | | |
| A2R31 | | | | | X | 20 | X | | X |
| A2R31B | | | | | X | | X | | |
| A2T21 | 15 | 90 | X | 15 | X | | X | | |
| A2T31 | | | X | 20 | X | | X | | |
| A2T51 | | | X | 30 | X | | X | | |

N.O. (1) = PUMP DOWN

N.C. (2) = PUMP UP

WIDE ANGLE 230 VOLT PIGGYBACK FLOAT SWITCHES TO DIRECTLY CONTROL PUMPS

| Order Number | Maximum Amps | Start Amps | 230 V Plug | Cord Length (Feet) | (1) | (2) | Mounting Strap | | |
|--------------|--------------|------------|------------|--------------------|------|------|----------------|---|---|
| | | | | | N.O. | N.C. | | | |
| A2D12 | 13 | 85 | X | 10 | X | | X | | |
| A2D12B | | | X | | X | | | | |
| A2D12C | | | X | | X | X | | | |
| A2D32 | | | 13 | 85 | X | 20 | X | | X |
| A2D32B | | | | | X | | X | | |
| A2D32C | | | | | X | | X | X | |
| A2D32U | | | | | X | | X | | |
| A2D52 | | | | | 30 | X | X | | X |
| A2D52C | | | | | | X | X | | X |
| A2D62 | | | X | 50 | | X | | X | |
| A2E22 | | | 15 | 85 | X | 15 | X | | X |
| A2E32 | | | | | 20 | X | X | | X |
| A2E32C | X | X | | | | | X | | |
| A2E32U | X | | | | | X | | | |
| A2E52 | 30 | X | | | X | | X | | |
| A2E62 | 50 | X | | | X | | X | | |
| A2H12 | 13 | 60 | X | 10 | X | | X | | |
| A2H12B | | | X | | X | | | | |
| A2H12C | | | X | | X | X | | | |
| A2H22 | | | 15 | X | X | | X | | |
| A2H32 | | | 20 | X | X | | X | | |
| A2HTL12 | | | 10 | X | X | | X | | |
| A2HTL32 | | | 20 | X | X | | X | | |
| A2HTL52 | | | 30 | X | X | | X | | |
| A2HT12 | | | 10 | X | X | | X | | |
| A2HT32 | | | 20 | X | X | | X | | |
| A2HT52 | | | 30 | X | X | | X | | |
| A2J12 | | | 10 | 60 | X | 10 | X | | X |
| A2J22 | 15 | X | | | | X | | | |
| A2J32 | 20 | X | | | | X | | | |
| A2R12 | 10 | X | | | X | | X | | |
| A2R12B | | X | | | X | | | | |
| A2R32 | 20 | X | | | X | | X | | |
| A2R32B | | X | | | X | | | | |
| A2T22 | 15 | 90 | | | X | 15 | X | | X |
| A2T32 | | | 20 | X | | X | | | |
| A2T52 | | | 30 | X | | X | | | |

N.O. (1) = PUMP DOWN

N.C. (2) = PUMP UP

NOMENCLATURE

A2

HTL

3

3

OPTIONS

OPTIONS

- U = Pump Up or Normally Closed (NC)
- W = A2WT Cable Weight
- B = Bulk Packed (internal only)

Style of Cord

- 1 = 115 V piggyback 3 = Bare lead
- 2 = 230 V piggyback

Length of Cord

- | | | |
|-----------|----------|---|
| 1 = 10' | 6 = 50' | } <i>Only available on select control switches.</i> |
| 2 = 15' ① | 7 = 75' | |
| 3 = 20' | 8 = 100' | |
| 4 = 25' ① | 9 = 125' | |
| 5 = 30' | | |

Type of Switch

- | | |
|--------------------------------|-------------------------------------|
| D = PumpMaster® - SJE | P = MicroMaster® Plus - SJE ② |
| E = PumpMaster Plus® - SJE | R = MicroMaster® - SJE ② |
| G = AmpMaster® - SJE | T = Double Float® Master - SJE |
| H = VerticalMaster® - SJE | X = MilliAmpMaster™ |
| J = VerticalMaster® II - SJE ② | HT = High Temperature - MDI - 221° |
| N = SignalMaster™ - SJE | HTL = High Temperature - MDI - 185° |

Float Switch



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