BCPFS



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.

 Passed NSF standard 61 protocol by an approved Water Quality Association laboratory.

•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 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, 1/2 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 nonpotable 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 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.
- Passed NSF standard 61 protocol by an approved Water Quality Association laboratory.
- 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 potable water, water or sewage applications.
- Supplied with a pipe clamp for mounting to pipe.
- UL Listed for use in 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



A2S SERIES

CentriPro* Diaphragm Pump or Control Switch

Features

- Mechanical contacts.
- Cast iron housing and BUNA-N diaphragm.
- For use in liquids up to 104° F (40° C).
- Control differential: pump turns on at 18" and off at 12" submergence.
- 18/3 AWG, SJTW cord w/breather tube is available with or without piggyback plug.
- Available only as NO for pump down operation.
- For wastewater or sewage applications.
- Supplied with a mounting bracket for mounting to pump.
- See chart for amperage range and other data.



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 A2D13 A2D14 A2D23U A2D23W A2D33W A2D33W A2D33W A2D33W A2D34W A2D53W A2D53W A2D63W A2D63W A2D63W A2D63W A2D63W A2E03 A2E23 A2E23 A2E23U A2E63 A2E63U A2E63 A2E63U A2E63 A2E63U A2E73 A2E83 A2E83U A2E83U A2E83	Maximum Running Amps 13	Maximum Starting Amps 85	Cord Length (Feet) 10 15 20 30 50 100 4 15 20 30	Bare Leads	Pump Switch X X X X X X X X X X X X X X X X X X	Control Switch	X X X X X X X X X X X X X X X X X X X	X X	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X
A2D13 A2D14 A2D23U A2D23W A2D23W A2D33 A2D33U A2D33W A2D34W A2D34W A2D53W A2D63W A2D63W A2D63W A2E03 A2E23 A2E23 A2E23 A2E23U A2E33 A2E53 A2E63	13		10 15 20 30 50 100 4 15 20	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X		X X X X X X X	X	X X X X X X X X	X X X X
A2D14 A2D23U A2D23W A2D23W A2D33W A2D33U A2D33W A2D34W A2D34W A2D53W A2D63W A2D63W A2E23 A2E23U A2E33 A2E53 A2E53 A2E53U A2E63U A2E73 A2E83 A2E83 A2E83 A2E83U A2E83 A2E83U A2E83 A2E83U A2G23 A2G33		85	30 50 100 4 15 20	X X X X X X X X X X X X	X X X X X X X X X X X X		X X X X X X		X X X X X X X	X X X
A2D23U A2D23W A2D23W A2D33U A2D33U A2D33W A2D34W A2D34W A2D53W A2D63W A2D63W A2D63W A2E03 A2E23 A2E23U A2E33 A2E53 A2E53 A2E53 A2E63U A2E73 A2E83 A2E83 A2E83U A2E83 A2E83U A2E83 A2E83U A2E83 A2E83U A2E83 A2E83U A2E83 A2E83U A2E83		85	20 30 50 100 4 15 20	X X X X X X X X X X X	X X X X X X X X X X X X X	- - - - - - - -	X X X X X X		X X X X X X	X X X
A2D33 A2D33U A2D33W A2D34W A2D34W A2D53W A2D63W A2D63W A2D63W A2E03 A2E23 A2E23U A2E33 A2E53 A2E53U A2E63U A2E63U A2E63U A2E73 A2E83 A2E83 A2E83U A2E83 A2E83U A2E83 A2E83U A2E33U A2E33		85	20 30 50 100 4 15 20	X X X X X X X X	X X X X X X X X X	- - - - - - -	X X X X X	X	X X X X	X X X
A2D33U A2D33W A2D33W A2D34W A2D53W A2D63W A2D63W A2D83W A2E03 A2E23 A2E23 A2E23 A2E53 A2E53 A2E53 A2E63U A2E63 A2E63U A2E73 A2E83		85	30 50 100 4 15	X X X X X X X	X X X X X X X	- - - - - -	X X X X X	X	X X X	X X X
A2D33W A2D34W A2D34W A2D53W A2D63W A2D63W A2E03 A2E23 A2E23 A2E23U A2E33 A2E53U A2E63 A2E63U A2E73 A2E83		85	30 50 100 4 15	X X X X X X	X X X X X X	- - - - -	X X X X	X	X X X	X X X
A2D34 A2D34W A2D33W A2D63W A2D63W A2D83W A2E03 A2E23 A2E23 A2E23 A2E53 A2E53 A2E63 A2E63 A2E63 A2E63 A2E73 A2E83		. 85	30 50 100 4 15	X X X X X X	X X X X X	- - - - -	X X X X		X X X	X X X
A2D34W A2D53W A2D63W A2D63W A2D83W A2E03 A2E23 A2E23U A2E33 A2E53 A2E53 A2E53U A2E63 A2E63U A2E73 A2E83	15	85	50 100 4 15 20	X X X X X	X X X X X	- - - -	X X X		X	X
A2D53W A2D63W A2D83W A2D83W A2E03 A2E23 A2E23U A2E33 A2E53 A2E53 A2E63U A2E63 A2E63U A2E73 A2E83 A2E83 A2E83 A2E83 A2E83 A2E83 A2E83 A2G33 A2G33	15	85	50 100 4 15 20	X X X X	X X X X	- - -	X X X		Χ	X
A2D63W A2D83W A2E03 A2E23 A2E23U A2E33 A2E53 A2E53U A2E63 A2E63U A2E63U A2E73 A2E83 A2E83 A2E83 A2E83 A2E83 A2E83 A2E83 A2E83 A2G33 A2G33	15	85	50 100 4 15 20	X X X X	X X X	- - -	X		Χ	Х
A2D83W A2E03 A2E23 A2E23U A2E33 A2E53 A2E53 A2E53U A2E63 A2E63U A2E73 A2E83 A2E83 A2E83U A2E33U A2E33U	15	85	100 4 15 20	X X X	X X X	-	Х			
A2E03 A2E23 A2E23U A2E33 A2E53 A2E53 A2E53U A2E63 A2E63 A2E73 A2E83 A2E83 A2E83U A2E33 A2E83 A2E83U A2G33	15	85	4 15 20	X X X	X	-			X	l X
A2E23 A2E23U A2E33 A2E53 A2E53U A2E63 A2E63U A2E73 A2E83 A2E83 A2E83U A2G23 A2G33	15		15 20	X	X		l X			
A2E23U A2E33 A2E53 A2E53U A2E63U A2E63U A2E73 A2E83 A2E83U A2E83U A2G23 A2G33	15		20	X			/			X
A2E33 A2E53 A2E53U A2E63 A2E63U A2E63U A2E73 A2E83 A2E83U A2E83U A2G23 A2G33	15		20			-	Х		X	
A2E53 A2E53U A2E63 A2E63U A2E73 A2E83 A2E83U A2E83U A2G23 A2G33	15			1 X	X	-		Х	X	
A2E53U A2E63 A2E63U A2E73 A2E83 A2E83U A2G23 A2G33	15		30		X	-	X		X	
A2E63 A2E63U A2E73 A2E83 A2E83U A2G23 A2G33	15			X	X	-	Х		X	
A2E63U A2E73 A2E83 A2E83U A2G23 A2G33			-	X	X	-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Х	X	
A2E73 A2E83 A2E83U A2G23 A2G33			50	X	X	-	Х	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	X	
A2E83 A2E83U A2G23 A2G33				X	X	-		Х	X	
A2E83U A2G23 A2G33			75	X	X	-	X		X	
A2G23 A2G33			100	X	X	-	Х	X	X	
A2G33				X	X	-	- V	_ ^	X	
			15 20	X	X	-	X		X	—
V.31V.3	20	120	25	X	X	-	X		X	
A2G43 A2G53	20	120	30	X	X	-	X		X	
A2G63			50	X	X		X		X	
A2H33	12	60	20	X	X	-	X		X	
A2HTL13	12	00	10	X		-	X		^	
A2HTL33	1	58	20	X	X	Х	X		X	
A2HTL53	1		30	X	X	X	X		X	
A2HT13	13		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		3	X	-	X	X		X	
A2N13			10	X	_	X	X		X	
A2N23			10	Х	-	X	Х		X	
A2N23W			4.5	Х	-	Х	Х		Х	
A2N23WB			15	Х	-	Х	Х			Х
A2N23WU				Х	-	Х		Х		Х
A2N33				Χ	-	Х	Х		Х	
A2N33U				Х	-	X		Х	Х	
A2N33W			20	Х	-	Х	Х			Х
A2N33WB			20	X	-	X	Х			X
A2N33WU				Х	-	X		Х		Х
A2N34				Χ	-	X	Х		Χ	
A2N43W	3		25	Х	-	Χ	Х			Х
A2N43WU	12	N/A	25	Х	-	X		Х		Х
A2N53			30	Х	-	X	Х		X	
A2N53W]			X	-	X	Х			Х
A2N53WU	_			Х	-	X		Х		Х
A2N63			50	X	-	X	Х		X	
A2N63W				X	-	X	X			X
A2N73			75	X	-	X	X		X	
A2N73W				X	-	X	X		.,	Х
A2N83			100	X	-	X	X		X	
A2N83U				X	-	X	L	Х	X	
A2N93			125	X	-	X	X		X	
A2S23			15	X	-	X	X		X	
A2S53	10		30	X	-	X	X		X	-
A2S63	4.5	00	50	X	-	X	X		X	-
A2T33	15	90	20	X	-	X	X		X	
A2X03		N/A	7	X	-	X	X		X	
A2X13	-		10 15	X	-	X	X		X	
A2X13U	See Description			X	-	X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Х	X	-
A2X23				X	-	X	Х		X	-
A2X23U				X	-	X	L	Х	X	
A2X33			20	X	-	X	X		X	
A2X33U				X	-	X	- V	X	X	
A2X33W	-			X	-	X	X		· · · · · · · · · · · · · · · · · · ·	X
A2X53	-		20	X	-	X	X		X	
A2X53U A2X63W	-		30	X	-	X	X	X	Λ	X

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
					N.0.	N.C.	Strap
A2D11		85	X	10	Х		X
A2D11B			Х		Х		
A2D11C	13		Х		Х		X
A2D31			Х	20	Х		X
A2D31B			Х		Х		
A2D31C			Х		Х		Х
A2D31U			Х			Х	Х
A2D51			Х	30	Х		Х
A2D51C			Х		Х		X
A2D61	1		Х	50	Х		Х
A2E21			Х	15	Х		Х
A2E31			Х	20	Х		Х
A2E31C	15		Х		Х		X
A2E31U	15		Х			Х	X
A2E51			Х	30	Х		X
A2E61			Х	50	Х		X
A2H11		60	X	10	Х		X
A2H11B			Х		Х		
A2H11C			Х		Х		X
A2H21			Х	15	Х		X
A2H31	13		X	20	Х		X
A2HTL11			X	10	Х		X
A2HTL31			X	20	Х		X
A2HTL51			X	30	Х		X
A2HT11			X	10	Х		X
A2HT31			X	20	Х		X
A2HT51	-		X	30	Х		X
A2J11			Х	10	Х		X
A2J21		60	X	15	Х		X
A2J31			X	20	Х		X
A2R11	10		X	10	Х		X
A2R11B			Х		Х		
A2R31			Х	20	Х		×
A2R31B			Х		Х		
A2S21	12	1	X	45	Х		X
A2T21			Х	15	Х		X
A2T31	15	90	X	20	Х		Х
A2T51			Х	30	Х		Х

N.O.(1) = PUMP DOWN

N.C. (2) = PUMP UP

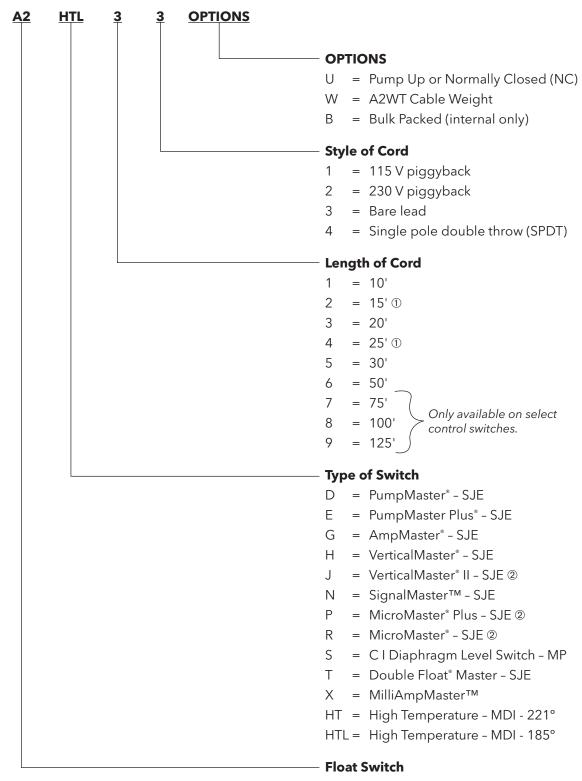
WIDE ANGLE 230 VOLT PIGGYBACK FLOAT SWITCHES TO DIRECTLY CONTROL PUMPS

Order Number	Maximum Amps	Start Amps	230 V Plug	Cord Length	(1)	(2)	Mounting
				(Feet)	N.0.	N.C.	Strap
A2D12	13	85	X	10	Х	ĺ	X
A2D12B			Х		Х		
A2D12C			Х		Х		Х
A2D32			Х	20	Х		X
A2D32B			Х		Х		
A2D32C			Х		Х		X
A2D32U			Х			Х	X
A2D52			Х	30	Х		X
A2D52C			Х		Х		X
A2D62	1		Х	50	Х		X
A2E22			Х	15	Х		X
A2E32			Х	20	Х		X
A2E32C	15		Х		Х		Х
A2E32U	15		Х			Х	Х
A2E52			Х	30	Х		Х
A2E62]		Х	50	Х		Х
A2H12		60	Х	10	Х		X
A2H12B			Х		Х		
A2H12C	1		Х		Х		X
A2H22			X	15	Х		X
A2H32	13		Х	20	Х		X
A2HTL12			X	10	Х		X
A2HTL32			X	20	X		X
A2HTL52			X	30	Х		X
A2HT12			Х	10	Х		X
A2HT32			X	20	Х		X
A2HT52			X	30	Х		Х
A2J12			X	10	Х		Х
A2J22		60	X	15	Х		X
A2J32			X	20	Х		X
A2R12	10		Х	10	Х		X
A2R12B			Х		Х		
A2R32			X	20	Х		X
A2R32B			X		Х		
A2S22	12	1	X	15	Х		X
A2T22			X	15	Х		X
A2T32	15	90	X	20	Х		X
A2T52			Х	30	Х		X

N.O. (1) = PUMP DOWN

N.C. (2) = PUMP UP

NOMENCLATURE



NOTES

NOTES



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www.xyleminc.com/brands/centripro

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